



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

Michael F. Easley, Governor

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

September 13, 2008

Mr. Ron Walls
Plant Manager
Georgia-Pacific Chemicals, LLC
Post Office Box 268
Conway, North Carolina 27820

Dear Mr. Walls:

**SUBJECT: Air Quality Permit No. 04243T22
Facility ID: 05/66/00016
Georgia-Pacific Chemicals, LLC
Conway, Northampton County, North Carolina
Fee Class: Title V**

In accordance with your completed Air Quality Permit Application 6600016.07A for the renewal of a Title V permit received March 30, 2007, and an application for a State Only modification (i.e. a NC toxics demonstration – Air Quality Permit Application 6600016.05C) received November 8, 2005 and consolidated into Air Quality Permit Application 6600016.07A, we are forwarding herewith Air Quality Permit No. 04243T22 to Georgia-Pacific Chemicals, LLC, 200 Ampac Road, Conway, 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. **The current owner is responsible for submitting a compliance certification for the entire year regardless of who owned the facility during the year.**

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

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

Permitting Section

1641 Mail Service Center, Raleigh, North Carolina 27699-1641

2728 Capital Blvd., Raleigh, North Carolina 27604

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You may request modification of your Air Quality Permit through informal means pursuant to NCGS 150B-22. This request must be submitted in writing to the Director and must identify the specific provisions or issues for which the modification is sought. Please note that Air Quality Permit No. 04243T22 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 No. 04243T22 shall be effective from **September 13, 2008** until **August 31, 2013**, 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 David F. Putney, P.E., by email at David.Putney@ncmail.net or by telephone at (919) 733-2051.

Sincerely yours,

Proposed

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

Enclosure

c: Raleigh Regional Office
Central Files, Northampton County
Gregg Worley, EPA Region 4

ATTACHMENT 1 to Permit No. 04243T22

The following table describes the modifications to the current permit as part of the modification process.

Old Page(s)	New Page(s)	Condition/Item	Description of Change(s)
Global	Global	N/A	<ul style="list-style-type: none"> • Update format to current shell version; • Change the issuance/effective dates of the permit; • Amend the application number and complete date; • Change permit revision number to T22; • Include PF/UF/AF resin and ammonia tanks and phenol/formaldehyde/methanol unloading/loading operations (previously considered insignificant activities); and • Change description of CD-2A from catalytic <i>incinerator</i> to catalytic <i>oxidizer</i>
3 - 5	3 - 5	Equipment List	<ul style="list-style-type: none"> • Completely reorganize equipment list and modify descriptions for correctness and clarity; • Correct the filter surface areas of CD-5A and CD-5B and the tank capacities of ESR1, R2, R5, R8 and R10; • Remove tanks ES-6.1 and ES-6.2 (these were actually duplicates of phenol tanks ESR5 and ESR10); • Expand equipment list to include existing tanks included in the facility-wide toxics demonstration (i.e. PF, UF and AF resin storage tanks) that were previously considered insignificant activities; and • Remove asterisk language for multiple sources pursuant to public comment/EPA review
5	6	2.1 A	Modify limits/standards table to add 2D .1806 and remove 2D .1111 (boiler MACT has been vacated)
7	6	2.1 A.2.a and A.3.a	Modify text to correctly reflect 2D .0516 and 2D .0521 applicability to the boilers
7	N/A	2.1 A.5 (04243T21)	Remove permit section addressing 2D .1111 avoidance [the boiler MACT (Subpart DDDDD) was vacated]
8	8	2.1 B	Modify limits/standards table to add 2D .1111 (MACT Subpart ZZZZ) and 2D .1806
8 - 9	8	2.1 B.3	Combine the PSD avoidance requirements of the two generators into one subsection
9	9	2.1 C	Modify limits/standards table to add 2D .1806 and modify descriptions to match equipment list
10	10	2.1 C.2.c	Update the monitoring associated with 2D .0521, add requirement to conduct monitoring during loading, and remove the requirement to establish “normal” for VEs
11	11	2.1 D	Modify limits/standards table to add 2D .1806
12	12	2.1 D.2.c	Update the monitoring associated with 2D .0521, add requirement to conduct monitoring during loading, and remove the requirement to establish “normal” for VEs

Old Page(s)	New Page(s)	Condition/Item	Description of Change(s)
N/A	13 - 15	2.1 E	Add a permit section to address MRR requirements associated with the spray dry resin production
N/A	16	2.1 F	Add a permit section to address MRR requirements associated with methanol/formaldehyde tanks ES3M1 and ES7F1 through ES7F8; and ammonia tank ES-S19
13 - 15	17 - 21	2.2 A	<ul style="list-style-type: none"> • Modify list of sources subject to MACTs F, G and H for clarity, correctness and consistency; • Modify limits/standards table to more accurately reflect the associated requirements; and • Reorganize the MRR requirements of this subsection for clarity and include more detailed language for those requirements
15 - 17	22 - 25	2.2 B	<ul style="list-style-type: none"> • Modify list of sources subject to MACTs OOO and UU for clarity, correctness and consistency; • Modify limits/standards table to more accurately reflect the associated requirements; and • Reorganize the MRR requirements of this subsection for clarity and include more detailed language for those requirements
17 - 18	26 - 27	2.2 C	<ul style="list-style-type: none"> • Modify list of sources subject to NC toxics and the limits/standards table to reflect the information in the facility-wide toxics demonstration; and • Modify the MRR requirements of this subsection to more accurately reflect the associated requirements
N/A	28 - 29	2.2 D	Add permit section for facility-wide affected sources subject to 2D .0958, 2D .1806 and 2Q .0705
18 - 27	30 - 37	Section 3	Update Section 3 General Conditions to current shell
29 - 33	N/A	N/A	Remove Part II pursuant to application 6600016.07A and the new permit shell

Insignificant Activities under 15A NCAC 2Q .0503(8)

Emission Source ID No.	Emission Source Description
I-SD1	Truck unloading of spray dry material
I-U1	Granular urea railcar screw conveyor unloading
I-DP	Solid resins drying pad
I-PH1	Propane-fired startup heater (0.23 million Btu per hour maximum heat input rate)
I-PH2	Propane-fired startup heater (0.23 million Btu per hour maximum heat input rate)
I-PH3	Propane-fired startup heater (0.23 million Btu per hour maximum heat input rate)
I-HTF	Natural gas/propane-fired heat transfer fluid heater (2.3 million Btu per hour maximum heat input rate)
I-HTF1	Heat transfer fluid tank (2,800 gallon capacity)
I-H1	Hexamine storage tank (12,500 gallon capacity)
I-C1	Process water tank (4,634 gallon capacity)
I-C2	Process water tank (4,634 gallon capacity)
I-C3	Process water tank (4,634 gallon capacity)
I-P7	Process water tank (22,548 gallon capacity)
I-P11	Process water tank (22,548 gallon capacity)
I-P12	Process water tank (22,548 gallon capacity)
I-P24	Process water tank (22,386 gallon capacity)
I-P28	Process water tank (31,006 gallon capacity)
I-P30	Process water tank (2,560 gallon capacity)
I-R6	Process water tank (19,421 gallon capacity)
I-R9	Process water tank (28,748 gallon capacity)
I-S18	Process water tank (9,924 gallon capacity)
I-WW1	Process water tank (27,678 gallon capacity)
I-A1	Acetone tank (9,924 gallon capacity)
I-A2	Acetone distillate tank (9,924 gallon capacity)
I-R3	Mixed sec-butyl phenols tank (22,548 gallon capacity)
I-R4	Sodium hydroxide tank (22,548 gallon capacity)
I-R7	Urea solution tank (19,421 gallon capacity)
I-S6	Caustic water tank (9,924 gallon capacity)
I-D	Diesel fuel dispenser rack
I-D1	Diesel fuel tank (10,000 gallon capacity)
I-D2	Diesel fuel tank (12,000 gallon capacity)
I-G1	Gasoline tank (2,000 gallon capacity)
I-K1	Kerosene tank (275 gallon capacity)
I-UMO	Used motor oil tank (500 gallon capacity)
I-NMO	New motor oil tank (500 gallon capacity)

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



AIR QUALITY PERMIT

Permit No.	Replaces Permit No.(s)	Effective Date	Expiration Date
04243T22	04243T21	September 13, 2008	August 31, 2013

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:

Facility ID:

Facility Site Location:

City, County, State, Zip:

Mailing Address:

City, State, Zip:

Application Number:

Complete Application Date:

Primary SIC Code:

Division of Air Quality,

Regional Office Address:

Georgia-Pacific Chemicals, LLC

05/66/00016

200 Ampac Road

Conway, Northampton County, North Carolina 27820

Post Office Box 368

Conway, North Carolina 27820

6600016.07A

March 30, 2007

2821

Raleigh Regional Office

3800 Barrett Drive, Suite 101

Raleigh, North Carolina 27609

Permit issued this the 13th day of September, 2008

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

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SECTION 3: GENERAL PERMIT CONDITIONS

ATTACHMENT

List of Acronyms

Proposed

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 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 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:

Emission Source ID No.	Emission Source Description	Control Device ID No.	Control Device Description
MACT: F, G, H VS2A	Process vent stream comprised of emissions from: <ul style="list-style-type: none"> One formaldehyde production process including vaporizers, catalytic converters, cooling systems, an after cooler and an absorber (ID No. ES-2); One formaldehyde tank truck loading rack (ID No. ES-FL); and One methanol storage tank (507,852 gallon capacity, ID No. ES3M1) when this source is operating under its primary compliance scenario; and Eight formaldehyde/methanol storage tanks (26,212 gallon capacity, each, ID Nos. ES7F1 through ES7F8) when these sources are operating under their primary compliance scenario 	CD-2A	Natural gas/propane-fired catalytic oxidizer (4.5 cubic feet of catalyst, 4.0 million Btu per hour maximum heat input primary burner)
MACT: F, G, H ES-MU	Methanol tank truck/railcar unloading	NA	NA
ES-UH-K3	Urea unloading hopper for reactor #3	CD-UH-K3	One bin vent filter (378 square feet of filter area)
ES-UH-K8	Urea unloading hopper for reactor #8	CD-UH-K8	One bin vent filter (378 square feet of filter area)
ES-11.1	Extender storage silo RM3	CD-11.1	Bin vent filter (4 cartridge filters, 100 square feet filter area in each cartridge filter)
ES-11.2	Extender storage silo RM4	CD-11.2	Bin vent filter (4 cartridge filters, 100 square feet filter area in each cartridge filter)
MACT: OOO, UU VS4A.1	Aggregate batch process vent stream comprised of emissions from twelve resin production vessels including six batch non-reactor vessels (five weigh tanks, ID Nos. ES4.9 through ES4.13 and one mix/blend tank, ID No. S-13) and six batch reactor vessels (ID Nos. ES4.1, ES4.2, ES4.3, ES4.5, ES4.7 and ES4.8)	CD-4A	Natural gas/propane-fired thermal oxidizer (2.9 million Btu per hour maximum heat input)
MACT: OOO, UU ES4.6	Batch non-reactor vessel, mix/blend tank K6	N/A	N/A

Emission Source ID No.	Emission Source Description	Control Device ID No.	Control Device Description
MACT: F, G, H (for storage vessel vent stream) and MACT: OOO, UU (for aggregate batch process vent stream) VS4A.2	Process vent stream comprised of emissions from: <ul style="list-style-type: none"> • One methanol storage tank (507,852 gallon capacity, ID No. ES3M1) when this source is operating under its alternate compliance scenario; • Eight formaldehyde/methanol storage tanks (26,212 gallon capacity, each, ID Nos. ES7F1 through ES7F8) when these sources are operating under their alternate compliance scenario; and • Aggregate batch process vent stream comprised of emissions from twelve resin production vessels including six batch non-reactor vessels (five weigh tanks, ID Nos. ES4.9 through ES4.13 and one mix/blend tank, ID No. S-13); and six batch reactor vessels (ID Nos. ES4.1, ES4.2, ES4.3, ES4.5, ES4.7 and ES4.8) 	CD-4A	Natural gas/propane-fired thermal oxidizer (2.9 million Btu per hour maximum heat input)
CAM MACT: OOO, UU VS5A	Continuous process vent stream comprised of emissions from the spray dry resin production process including a natural gas/propane-fired atomizing air heater (14.6 million Btu per hour maximum heat input rate), a spray dryer, several transfer cyclones and a product bagging operation (ID No. ES-5)	CD-5A	Bagfilter (14,500 square feet of filter area)
ES-UH-K3	Urea unloading hopper for reactor #3	CD-UH-K3	One bin vent filter (378 square feet of filter area)
ES-UH-K8	Urea unloading hopper for reactor #8	CD-UH-K8	One bin vent filter (378 square feet of filter area)
ES-11.1	Extender storage silo RM3	CD-11.1	Bin vent filter (4 cartridge filters, 100 square feet filter area in each cartridge filter)
ES-11.2	Extender storage silo RM4	CD-11.2	Bin vent filter (4 cartridge filters, 100 square feet filter area in each cartridge filter)
MACT: OOO, UU ES-S19	Aqueous ammonia storage tank (9,924 gallon capacity)	CD-S19	One scrubber tank (56 inch minimum liquid level from tank bottom)
MACT: OOO, UU ES-PU	Phenol unloading operations	NA	NA
MACT: OOO, UU ESR8	Urea-formaldehyde concentrate (UFC) storage tank (25,366 gallon capacity)	NA	NA
MACT: OOO, UU ESR1	Phenol storage tank (22,548 gallon capacity)	NA	NA
MACT: OOO, UU ESR2	Phenol storage tank (22,548 gallon capacity)	NA	NA
MACT: OOO, UU ESR5	Phenol storage tank (22,548 gallon capacity)	NA	NA
MACT: OOO, UU ESR10	Phenol storage tank (22,548 gallon capacity)	NA	NA

Emission Source ID No.	Emission Source Description	Control Device ID No.	Control Device Description
MACT: OOO, UU PFTF	Phenol-formaldehyde resin tank farm consisting of 52 tanks of various capacities	NA	NA
MACT: OOO, UU UFTF	Urea-formaldehyde resin tank farm consisting of 7 tanks of various capacities	NA	NA
MACT: OOO, UU AFTF	Acetone-formaldehyde resin tank farm consisting of 6 tanks of various capacities	NA	NA
NSPS: Dc ES-B1	One natural gas/propane-fired boiler (25.1 million Btu per hour maximum heat input rate)	NA	NA
NSPS: Dc ES-B2	One natural gas/propane/No. 2 fuel oil-fired temporary boiler (less than 25 million Btu per hour maximum heat input rate)	NA	NA
MACT: ZZZZ ES-GEN1	Diesel-fired generator (500 kW maximum rated power output)	NA	NA
MACT: ZZZZ ES-GEN2	Diesel-fired generator (500 kW maximum rated power output)	NA	NA

Proposed

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 natural gas/propane-fired boiler (25.1 million Btu per hour maximum heat input rate, ID No. ES-B1); and**
One natural gas/propane/No. 2 fuel oil-fired temporary boiler (less than 25 million Btu per hour maximum heat input rate, ID No. ES-B2)

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	$E \leq 0.47$ pounds per million Btu heat input	15A NCAC 2D .0503
Sulfur dioxide	ES-B1 and ES-B2: 2.3 pounds per million Btu heat input (only applies when burning natural gas and/or propane)	15A NCAC 2D .0516
	ES-B2 only: fuel oil sulfur content ≤ 0.5 percent (only applies when burning No. 2 fuel oil)	15A NCAC 2D .0524 (40 CFR 60, Subpart Dc)
Visible emissions	20 percent opacity	15A NCAC 2D .0521
Odorous emissions	State Enforceable Only See Section 2.2 D.2	15A NCAC 2D .1806

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 these boilers into the atmosphere shall not exceed 0.47 pounds per million Btu heat input. [15A NCAC 2D .0503(a)]
Testing [15A NCAC 2D .2601]
- b. If emissions testing is required, the testing shall be performed in accordance with 15A NCAC 2D .2601 and General Condition JJ found in Section 3. 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.
- c. No monitoring, recordkeeping or reporting is required for particulate emissions from the firing of natural gas, propane or No. 2 fuel oil in these boilers.

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

- a. Emissions of sulfur dioxide from these boilers while burning natural gas and/or propane 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 .2601]
- b. If emissions testing is required, the testing shall be performed in accordance with 15A NCAC 2D .2601 and General Condition JJ found in Section 3. If the results of this test are above the limit given in Section 2.1 A.2.a. above, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0516.
Monitoring/Recordkeeping/Reporting [15A NCAC 2Q .0508(f)]
- c. No monitoring, recordkeeping or reporting is required for sulfur dioxide emissions from the firing of natural gas, propane or No. 2 fuel oil in these boilers.

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

- a. Visible emissions from these boilers (ID Nos. ES-B1 and ES-B2) 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 .2601]

- b. If emissions testing is required, the testing shall be performed in accordance with 15A NCAC 2D .2601 and General Condition JJ found in Section 3. If the results of this test are above the limit given in Section 2.1 A.3.a. above, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0521.

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

- c. No monitoring, recordkeeping or reporting is required for visible emissions from the firing of natural gas, propane or No. 2 fuel oil in these boilers.

4. 15A NCAC 2D .0524: NEW SOURCE PERFORMANCE STANDARDS

- a. The Permittee shall comply with all applicable provisions, including the notification, testing, 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 Limitations [15A NCAC 2D .0524 and §60.42c(d)]

- b. The maximum sulfur content of any No. 2 fuel oil received and burned in the temporary boiler (ID No. ES-B2) shall not exceed 0.5 percent by weight.

Monitoring [15A NCAC 2Q .0508(f), §60.42c(h)(1), §60.46c(e) and §60.48c(f)(1)]

- c. Fuel supplier certification shall be used to demonstrate compliance as described under 40 CFR §60.46c(e). Fuel supplier certification shall include the following information:
 - i. The name of the oil supplier; and
 - ii. A statement from the oil supplier that the oil complies with the specification under the definition of distillate oil found in 40 CFR §60.41c.

The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0524 if fuel supplier certifications are not maintained or if the fuel supplier certifications indicate an exceedance of the limit in Section 2.1 A.4.b, above.

Recordkeeping [15A NCAC 2Q .0508(f) and §60.48c]

- 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 each fuel fired in the boilers (ID Nos. ES-B1 and ES-B2) during each calendar month. The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0524 if these records are not maintained.

Reporting [15A NCAC 2Q .0508(f) and §60.48c]

- e. In addition to any other reporting required by 40 CFR §60.48c or notification requirements to the EPA, the Permittee is required to submit to the DAQ, in writing, the following:
 - i. Notification of the date construction (40 CFR §60.7) or reconstruction (40 CFR §60.15) of the boilers (ID Nos. ES-B1 and ES-B2) is commenced, postmarked no later than 30 days after such date;
 - ii. Notification of the actual date of initial startup of the temporary boiler (ID No. ES-B2) postmarked within 15 days after such date;
 - iii. The results of the initial performance test required for the temporary boiler (ID No. ES-B2) pursuant to 40 CFR §60.44c(h), postmarked by the 30th day of the third month following the initial performance test. For boiler ES-B2 the initial performance test shall consist of fuel supplier certification as described in Section 2.1 A.4.c, above, and include a certified statement signed by the owner or operator that the records of fuel supplier certification submitted represents all of the fuel oil fired in boiler ES-B2 during the reporting period; and
 - iv. A summary report, acceptable to the Regional Air Quality Supervisor, of the sulfur content of the distillate fuel oil fired in boiler (ID No. ES-B2), 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. These summary reports must include a certified statement signed by the owner or operator that the records of fuel supplier certification submitted represents all of the fuel oil fired during the reporting period. All instances of deviations from the requirements of this permit must be clearly identified.

B. Two No. 2 fuel oil-fired emergency generators (500 kilowatt maximum rated power output, each, ID Nos. ES-GEN1 and ES-GEN2)

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

Regulated Pollutant	Limits/Standards	Applicable Regulation
Sulfur dioxide	2.3 pounds per million Btu heat input	15A NCAC 2D .0516
Visible emissions	20 percent opacity	15A NCAC 2D .0521
Hazardous Air Pollutants	ES-GEN1: Initial notification only ES-GEN2: No applicable requirements	15A NCAC 2D .1111 [40 CFR 63, Subpart ZZZZ]
Odorous emissions	State Enforceable Only See Section 2.2 D.2	15A NCAC 2D .1806
Nitrogen oxides	Less than 40 tons per consecutive 12-month period, each generator	15A NCAC 2Q .0317 to avoid 15A NCAC 2D .0530

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

- a. Emissions of sulfur dioxide from these generators 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 .2601]

- b. If emissions testing is required, the testing shall be performed in accordance with 15A NCAC 2D .2601 and General Condition JJ found in Section 3. If the results of this test are above the limit given in Section 2.1 B.1.a. above, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0516.

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

- c. No monitoring, recordkeeping or reporting is required for sulfur dioxide emissions from the firing of No. 2 fuel oil in these emergency generators.

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

- a. Visible emissions from these No. 2 fuel oil-fired generators (**ID Nos. ES-GEN1 and ES-GEN2**) 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 .2601]

- b. If emissions testing is required, the testing shall be performed in accordance with 15A NCAC 2D .2601 and General Condition JJ found in Section 3. If the results of this test are above the limit given in Section 2.1 B.2.a. above, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0521.

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

- c. No monitoring, recordkeeping or reporting is required for visible emissions from the firing of No. 2 fuel oil in these emergency generators.

**3. 15A NCAC 2Q .0317: AVOIDANCE CONDITIONS TO AVOID
15A NCAC 2D .0530 PREVENTION OF SIGNIFICANT DETERIORATION**

- a. In order to avoid applicability of 15A NCAC 2D .0530(g) for major sources and major modifications, emergency generators (ID Nos. ES-GEN1 and ES-GEN2) shall discharge into the atmosphere less than 40 tons of nitrogen oxide, each, per consecutive 12-month period. [15A NCAC 2D .0530]
- b. To ensure enforceability of this limit, the hours of operation of the two emergency generators (ID Nos. ES-GEN1 and ES-GEN2) shall not exceed 1,000 hours, each, per consecutive 12-month period.

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

- c. The Permittee shall maintain a monthly record of the hours of operation of each emergency generator in a logbook (written or electronic format) kept onsite and made available to DAQ personnel upon request.

The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0530 if records of hours of operation are not maintained or if those records indicate an exceedance of the limits in Section 2.1 B.3.b, above.

C. Batch reactor kettles K3 and K8 urea unloading hoppers (ID Nos. ES-UH-K3 and ES-UH-K8, respectively) and associated bin vent filters (378 square feet of filter area, each, ID Nos. CD-UH-K3 and CD-UH-K8, respectively)

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

Regulated Pollutant	Limits/Standards	Applicable Regulation
Particulate matter	$E = 4.10P^{0.67}$ Where: E = allowable emission rate in pounds per hour P = process weight in tons per hour	15A NCAC 2D .0515
Visible emissions	20 percent opacity	15A NCAC 2D .0521
Odorous emissions	State Enforceable Only See Section 2.2 D.2	15A NCAC 2D .1806

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

- a. Emissions of particulate matter from each of these urea unloading hoppers (ID Nos. ES-UH-K3 and ES-UH-K8) shall not exceed an allowable emission rate as calculated by the following equation: [15A NCAC 2D .0515(a)]

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

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

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

Testing [15A NCAC 2D .2601]

- b. If emissions testing is required, the testing shall be performed in accordance with 15A NCAC 2D .2601 and General Condition JJ found in Section 3. 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 urea unloading hoppers (ID Nos. ES-UH-K3 and ES-UH-K8) shall be controlled by bin vent filters (ID Nos. CD-UH-K3 and CD-UH-K8, respectively). 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 ductwork and material collection units for leaks; and
 - ii. An annual (for each 12 month period following the initial inspection) internal inspection of the bin vent filters’ structural integrity.

The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0515 if the ductwork and bin vent filters are not inspected and maintained.

- d. The results of inspection and maintenance shall be maintained in a logbook (written or electronic format) on-site and made available to an authorized representative upon request. The logbook shall record the following:
 - i. The date and time of each recorded action;
 - ii. The results of each inspection;
 - iii. The results of any maintenance performed on the bin vent filters; 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 bin vent filters within 30 days of a written request by the DAQ.
- f. The Permittee shall submit a summary report of monitoring and recordkeeping activities postmarked on or before January 30 of each calendar year for the preceding six-month period between July and December and July 30 of each

calendar year for the preceding six-month period between January and June. All instances of deviations from the requirements of this permit must be clearly identified.

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

- a. Visible emissions from the urea unloading hoppers (ID Nos. ES-UH-K3 and ES-UH-K8) 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 .2601]

- b. If emissions testing is required, the testing shall be performed in accordance with 15A NCAC 2D .2601 and General Condition JJ found in Section 3. If the results of this test are above the limit given in Section 2.1 C.2.a. above, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0521.

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

- c. To assure compliance, once a month the Permittee shall observe the emission points of the urea unloading hoppers, while the unloading hoppers are being filled, for any visible emissions above normal. The monthly observations must be made for each month of the calendar year period to ensure compliance with this requirement. If visible emissions from this source are observed to be above normal, the Permittee shall either:
 - i. Take appropriate action to correct the above-normal emissions as soon as practicable and within the monitoring period and record the action taken as provided in the recordkeeping requirements below, or
 - ii. Demonstrate that the percent opacity from the emission points of the emission source in accordance with 15A NCAC 2D .2601 (Method 9) for 12 minutes 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 logbook (written or electronic format) on-site and made available to an authorized representative upon request. The logbook shall record the following:
 - i. The date and time of each recorded action;
 - ii. The results of each observation and/or test noting those sources with emissions that were observed to be in noncompliance along with any corrective actions taken to reduce visible emissions; and
 - iii. The results of any corrective actions performed.

The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0521 if these records are not maintained.

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

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

D. Two extender silos (ID Nos. ES-11.1 and ES-11.2) and associated bin vent filters (each bin vent filter is comprised of 4 cartridge filters with 100 square feet filter area in each cartridge filter, ID Nos. CD-11.1 and CD-11.2, respectively)

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

Regulated Pollutant	Limits/Standards	Applicable Regulation
Particulate matter	$E = 4.10P^{0.67}$ Where: E = allowable emission rate in pounds per hour P = process weight in tons per hour	15A NCAC 2D .0515
Visible emissions	20 percent opacity	15A NCAC 2D .0521
Odorous emissions	State Enforceable Only See Section 2.2 D.2	15A NCAC 2D .1806

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

- a. Emissions of particulate matter from each of the extender silos (ID Nos. ES-11.1 and ES-11.2) shall not exceed an allowable emission rate as calculated by the following equation: [15A NCAC 2D .0515(a)]

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

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

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

Testing [15A NCAC 2D .2601]

- b. If emissions testing is required, the testing shall be performed in accordance with 15A NCAC 2D .2601 and General Condition JJ found in Section 3. 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 two extender silos (ID Nos. ES-11.2 and ES-11.2) shall be controlled by bin vent filters (ID Nos. CD-11.1 and CD-11.2, respectively). 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 ductwork and material collection units for leaks; and
 - ii. An annual (for each 12 month period following the initial inspection) internal inspection of the bin vent filters' structural integrity.

The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0515 if the ductwork and bin vent filters are not inspected and maintained.

- d. The results of inspection and maintenance shall be maintained in a logbook (written or electronic format) on-site and made available to an authorized representative upon request. The logbook shall record the following:
 - i. The date and time of each recorded action;
 - ii. The results of each inspection;
 - iii. The results of any maintenance performed on the vent filter's; 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 bin vent filters within 30 days of a written request by the DAQ.
- f. The Permittee shall submit a summary report of monitoring and recordkeeping activities postmarked on or before January 30 of each calendar year for the preceding six-month period between July and December and July 30 of each

calendar year for the preceding six-month period between January and June. All instances of deviations from the requirements of this permit must be clearly identified.

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

- a. Visible emissions from the extender silos (ID Nos. ES-11.1 and ES-11.2) shall not be more than 20 percent opacity when averaged over a six-minute period. However, six-minute averaging periods may exceed 20 percent not more than once in any hour and not more than four times in any 24-hour period. In no event shall the six-minute average exceed 87 percent opacity. [15A NCAC 2D .0521(d)]

Testing [15A NCAC 2D .2601]

- b. If emissions testing is required, the testing shall be performed in accordance with 15A NCAC 2D .2601 and General Condition JJ found in Section 3. 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 month the Permittee shall observe the emission points of the two extender silos, while the extender silos are being loaded, for any visible emissions above normal. The monthly observations must be made for each month of the calendar year period to ensure compliance with this requirement. If visible emissions from this source are observed to be above normal, the Permittee shall either:
- i. Take appropriate action to correct the above-normal emissions as soon as practicable and within the monitoring period and record the action taken as provided in the recordkeeping requirements below, or
 - ii. Demonstrate that the percent opacity from the emission points of the emission source in accordance with 15A NCAC 2D .2601 (Method 9) for 12 minutes 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 logbook (written or electronic format) on-site and made available to an authorized representative upon request. The logbook shall record the following:
- i. The date and time of each recorded action;
 - ii. The results of each observation and/or test noting those sources with emissions that were observed to be in noncompliance along with any corrective actions taken to reduce visible emissions; and
 - iii. The results of any corrective actions performed.

The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0521 if these records are not maintained.

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

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

E. Continuous process vent stream (ID No. VS5A) comprised of emissions from the spray dry resin production process including a natural gas/propane-fired atomizing air heater (14.6 million Btu per hour maximum heat input rate), a spray dryer, several transfer cyclones and a product bagging operation (ID No. ES-5) and associated bagfilter (14,500 square feet of filter area, ID No. CD-5A)

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

Regulated Pollutant	Limits/Standards	Applicable Regulation
Particulate matter	$E = 4.10P^{0.67}$ Where: E = allowable emission rate in pounds per hour P = process weight in tons per hour	15A NCAC 2D .0515
	Compliance Assurance Monitoring	15A NCAC 2D .0614
Sulfur dioxide	2.3 pounds per million Btu heat input	15A NCAC 2D .0516
Visible emissions	20 percent opacity	15A NCAC 2D .0521
	Compliance Assurance Monitoring	15A NCAC 2D .0614
Toxic Air Pollutants	State-enforceable only See Sections 2.2 C.1 and D.3	15A NCAC 2D .1100 and 15A NCAC 2Q .0705
Hazardous Air Pollutants	Maximum Achievable Control Technology See Section 2.2 B.1 – no applicable requirements	15A NCAC 2D .1111 [40 CFR 63, Subparts OOO and UU]
Odorous emissions	State Enforceable Only See Section 2.2 D.2	15A NCAC 2D .1806

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

- a. Emissions of particulate matter from the continuous process vent stream (ID No. VS5A) shall not exceed an allowable emission rate as calculated by the following equation: [15A NCAC 2D .0515(a)]

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

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

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

Testing [15A NCAC 2D .2601]

- b. If emissions testing is required, the testing shall be performed in accordance with 15A NCAC 2D .2601 and General Condition JJ found in Section 3. If the results of this test are above the limit given in Section 2.1 E.1.a. above, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0515.

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

- c. Particulate matter emissions from the continuous process vent stream (ID No. VS5A) shall be controlled by a bagfilter (ID No. CD-5A). 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 ductwork and material collection units for leaks; and
 - ii. An annual (for each 12 month period following the initial inspection) internal inspection of the bagfilter’s structural integrity.

The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0515 if the ductwork and bagfilter are not inspected and maintained.

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

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

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

- a. Emissions of sulfur dioxide from the natural gas/propane-fired atomizing air heater 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 .2601]

- b. If emissions testing is required, the testing shall be performed in accordance with 15A NCAC 2D .2601 and General Condition JJ found in Section 3. If the results of this test are above the limit given in Section 2.1 E.2.a. above, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0516.

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

- c. No monitoring, recordkeeping or reporting is required for sulfur dioxide emissions from the firing of natural gas or propane in the atomizing air heater.

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

- a. Visible emissions from the continuous process vent stream (ID No. VS5A) 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 .2601]

- b. If emissions testing is required, the testing shall be performed in accordance with 15A NCAC 2D .2601 and General Condition JJ found in Section 3. If the results of this test are above the limit given in Section 2.1 E.3.a. above, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0521.

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

- c. To assure compliance, once a month the Permittee shall observe the emission points of the continuous process vent stream (ID No. VS5A) for any visible emissions above normal. The monthly observations must be made for each month of the calendar year period to ensure compliance with this requirement. If visible emissions from this source are observed to be above normal, the Permittee shall either:
 - i. Take appropriate action to correct the above-normal emissions as soon as practicable and within the monitoring period and record the action taken as provided in the recordkeeping requirements below, or
 - ii. Demonstrate that the percent opacity from the emission points of the emission source in accordance with 15A NCAC 2D .2601 (Method 9) for 12 minutes is below the limit given in Section 2.1 E.3.a. above.

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

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

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

The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0521 if these records are not maintained.

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

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

4. 15A NCAC 2D .0614: COMPLIANCE ASSURANCE MONITORING

- a. For the continuous process vent stream (ID No. VS5A), the Permittee shall comply with 40 CFR Part 64 and 15A NCAC 2D .0614 and shall assure that these emission sources comply with the emission limits of 15A NCAC 2D .0515 and 15A NCAC 2D .0521 by complying with the following:

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

- b. Visible emissions from the continuous process vent stream (ID No. VS5A) shall be controlled by the associated bagfilter (ID No. CD-5A).
 - i. To assure compliance the Permittee shall comply with the monitoring and recordkeeping requirements of Sections 2.1 E.3.c and 2.1 E.3.d, above.
 - ii. The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0614 if the visible emissions from bagfilter (ID No. CD-5A) are not monitored or if the records are not maintained.
- c. Particulate matter emissions from the continuous process vent stream (ID No. VS5A) shall be controlled by the associated bagfilter (ID No. CD-5A). To assure compliance the Permittee shall conduct hourly monitoring of the differential pressure drop across bagfilter ID No. CD-5A.
 - i. If a differential pressure drop across bagfilter ID No. CD-5A greater than 8 inches of water column is observed then an excursion has occurred.
 - A. In the event of an excursion the Permittee shall take appropriate action to correct the excursion as soon as practicable.
 - B. If six or more excursions are observed during a consecutive 6-month period, then the Permittee shall develop a Quality Improvement Plan in accordance with 40 CFR §64.8.
 - ii. The results of the monitoring shall be maintained in a logbook (written or electronic format) on-site and made available to an authorized representative upon request. The logbook shall record the following:
 - A. The date and time of each recorded action;
 - B. The results of the monitoring, noting any excursions along with any corrective actions taken to reduce differential pressure drop; and
 - C. The results of any corrective actions performed.
 - iii. The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0614 if the differential pressure drop across bagfilter ID No. CD-5A is not monitored or if the records are not maintained.

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

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

F. One aqueous ammonia storage tank (9,924 gallon capacity, ID No. ES-S19) and associated scrubber tank (56 inch minimum liquid level from tank bottom, ID No. CD-S19); and One methanol storage tank (507,852 gallon capacity, ID No. ES3M1) and eight formaldehyde/methanol storage tanks (26,212 gallon capacity, each, ID Nos. ES7F1 through ES7F8) and associated controls as follows:

Primary compliance scenario:

Natural gas/propane-fired catalytic oxidizer (4.5 cubic feet of catalyst, 4.0 million Btu per hour maximum heat input primary burner, ID No. CD-2A); or

Alternate compliance scenario:

Natural gas/propane-fired thermal oxidizer (2.9 million Btu per hour maximum heat input rate, ID No. CD-4A)

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

Regulated Pollutant	Limits/Standards	Applicable Regulation
Volatile Organic Compounds	ES3M1: Reduce the organic emissions into the atmosphere by at least 90% by weight	15A NCAC 2D .0949
	Work Practice Standards See Section 2.2 D.1	15A NCAC 2D .0958
Formaldehyde and Ammonia	ES-S19 and ES7F1 through ES7F8: Develop and implement a Risk Management Plan	15A NCAC 2D .2100
Toxic Air Pollutants	State-enforceable only ES-S19 and ES7F1 through ES7F8: See Sections 2.2 C.1 and D.3	15A NCAC 2D .1100 and 15A NCAC 2Q .0705
Hazardous Air Pollutants	Maximum Achievable Control Technology ES3M1 and ES7F1 through ES7F8: See Section 2.2 A	15A NCAC 2D .1111 [40 CFR 63, Subparts F, G and H]
	Maximum Achievable Control Technology ES-S19: See Section 2.2 B	15A NCAC 2D .1111 [40 CFR 63, Subparts OOO and UU]
Odorous emissions	State Enforceable Only See Section 2.2 D.2	15A NCAC 2D .1806

1. 15A NCAC 2D .0949: STORAGE OF MISCELLANEOUS VOLATILE ORGANIC COMPOUNDS

- a. Emissions of volatile organic compounds (VOC) from methanol storage tank (ID No. ES3M1) into the atmosphere shall be reduced by at least 90 percent, by weight. All tank gauging or sampling devices shall be gas-tight except when tank gauging or sampling is taking place. [15A NCAC 2D .0949(b)]

Testing [15A NCAC 2D .2601]

- b. If emissions testing is required, the Permittee shall perform such testing in accordance with 15A NCAC 2D .2601 and General Condition JJ found in Section 3. If the results of this test indicate a VOC reduction less than that required in Section 2.1 F.1.a, above, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0949.

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

- c. VOC emissions from methanol storage tank (ID No. ES3M1) shall be controlled by either the catalytic oxidizer (ID No. CD-2A) or the thermal oxidizer (ID No. CD-4A). To assure compliance, the Permittee shall conduct the associated monitoring, recordkeeping and reporting requirements found in Sections 2.2 A.1.e.i through v, f.i through v, and g.iv.(A) through (D) of this permit, below. The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0949 if the Permittee does not comply with those monitoring, recordkeeping and reporting requirements.

2. 15A NCAC 2D .2100: RISK MANAGEMENT PROGRAM

SECTION 112 (r) OF THE CLEAN AIR ACT - PREVENTION OF ACCIDENTAL RELEASES

- a. The Permittee is subject to Section 112(r) of the Clean Air Act and shall comply with all applicable requirements in accordance with 40 CFR Part 68 [15A NCAC 2D .2101(a)].

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

- b. The Permittee shall submit a Risk Management Plan to EPA pursuant to 40 CFR §68.150 prior to June 11, 2009, or as specified in 40 CFR §68.10.

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

A. One heat exchange system (ID No. HX1);

Methanol tank truck/railcar unloading operation (ID No. ES-MU);

Formaldehyde tank truck loading rack (ID No. ES-FL);

Group 1 process vent stream (ID No. VS2A) and associated natural gas/propane-fired catalytic oxidizer (4.5 cubic feet of catalyst, 4.0 million Btu per hour maximum heat input primary burner, ID No. CD-2A); and

Vent stream (ID No. VS4A.2) and associated natural gas/propane-fired thermal oxidizer (2.9 million Btu per hour maximum heat input rate, ID No. CD-4A)

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

Emission Source(s)	Limits/Standards	Applicable Regulation
Methanol and/or formaldehyde storage tanks (ID Nos. ES7F1 through ES7F8)	While storing methanol: Reduce total organic HAP emissions by at least 95 percent by weight by operating and maintaining a closed vent system and control device.	15A NCAC 2D .1111 [40 CFR §63.119(a)(1) and 40 CFR §63.113(e)(1)]
	While storing formaldehyde: Recordkeeping only.	15A NCAC 2D .1111 [40 CFR §63.119(a)(3)]
Methanol storage tank (ID No. ES3M1) and vent stream (ID No. VS4A.2)	Reduce total organic HAP emissions by at least 95 percent by weight by operating and maintaining a closed vent system and control device.	15A NCAC 2D .1111 [40 CFR §63.119(a)(1) and 40 CFR §63.113(e)(1)]
Methanol and formaldehyde loading and unloading (ID Nos. ES-MU and ES-FL)	Recordkeeping only <i>as long as</i> annual loadout of liquid products that contain organic HAP with a rack weighted average vapor pressure greater than or equal to 10.3 kilopascals is less than 650,000 liters per year.	15A NCAC 2D .1111 [40 CFR §63.111 and 40 CFR §63.126(c)]
Process vent stream (ID No. VS2A)	Reduce total organic HAP emissions by at least 98 percent by weight or to a concentration of 20 parts per million by volume, whichever is less stringent.	15A NCAC 2D .1111 [40 CFR §63.113(a)(2)]
Process vent bypass lines	Install a flow indicator at the entrance to any bypass line that could divert the gas stream to the atmosphere or secure the bypass line in the non-diverting position with a car-seal or a lock-and-key type configuration.	15A NCAC 2D .1111 [40 CFR §63.114(d)]
Heat exchange system (ID No. HX1)	Maintain a minimum pressure on the cooling water side that is at least 35 kilopascals greater than the maximum pressure on the process side.	15A NCAC 2D .1111 [40 CFR §63.104(a)(1)]
Equipment leaks	Establish, maintain and implement a leak detection and repair (LDAR) program that complies with the requirements of 40 CFR Part 63, Subpart H.	15A NCAC 2D .1111 [40 CFR §63.148(k)]

1. 15A NCAC 2D .1111: MAXIMUM ACHIEVABLE CONTROL TECHNOLOGY [40 CFR Part 63, Subparts F, G, and H]

Applicability [40 CFR §63.100, §63.110 and §63.160]

- a. The Permittee shall comply with all applicable requirements of 15A NCAC 2D .1111 "Maximum Achievable Control Technology" and 40 CFR Part 63, including Subparts F "National Emission Standards for Organic Hazardous Air Pollutants From the Synthetic Organic Chemical Manufacturing Industry", G "National Emission Standards for Organic Hazardous Air

Pollutants From the Synthetic Organic Chemical Manufacturing Industry (SOCMI) for Process Vents, Storage Vessels, Transfer Operations, and Wastewater”, H “National Emission Standards for Organic Hazardous Air Pollutants for Equipment Leaks” and A “General Provisions.”

Standards [40 CFR §63.104, §63.112, §63.113, §63.119 and §63.126]

- b. In accordance with 40 CFR §63.104, §63.112, §63.113, §63.119 and §63.126 the Permittee shall limit organic Hazardous Air Pollutant (HAP) emissions to the atmosphere from the affected sources as follows:
- i. For the Group 1 process vent stream (ID No. VS2A): The total organic HAP emissions from the Group 1 process vent stream shall be either reduced by at least 98 percent by weight or reduced to a concentration of no more than 20 parts per million by volume, whichever is less stringent. This requirement does not apply to a source during periods of non-operation or startup/shutdown/malfunction [as defined at 40 CFR §63.101(b)] if that source is operated during such periods in accordance with 40 CFR §63.102(a)(4);
 - ii. For the Group 1 storage vessels (ID Nos. ES7F1 through ES7F8, while storing methanol, and ES3M1) and vent stream (ID No. VS4A.2): The total organic HAP emissions from the Group 1 storage vessels shall be routed through a closed vent system and control device and reduced by at least 95 percent by weight. This requirement does not apply to a source during periods of non-operation or startup/shutdown/malfunction [as defined at 40 CFR §63.101(b)] if that source is operated during such periods in accordance with 40 CFR §63.102(a)(4);
 - iii. For the Group 2 storage vessels (ID Nos. ES7F1 through ES7F8, while storing formaldehyde): Only the recordkeeping requirements of Section 2.2 A.1.f.iii, below, apply;
 - iv. For the loading and unloading operations (ID Nos. ES-MU and ES-FL): The Permittee shall conduct loading and unloading operations such that Group 2 status, as defined at §63.111, is maintained for these operations; and
 - v. For the heat exchange system (ID No. HX1): The Permittee shall operate the heat exchange system such that it qualifies for the exemption from monitoring requirements described at §63.104(a)(1).

Testing [40 CFR §63.116, §63.128 and 15A NCAC 2D .2601]

- c. If emissions testing is required, the testing shall be performed in accordance with 40 CFR §63.116, §63.128, 15A NCAC 2D .2601 and General Condition JJ found in Section 3. If the results of this testing indicates noncompliance with the standards given in Section 2.2 A.1.b, above, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .1111 and 40 CFR Part 63, Subparts F and G.

Control and Operation Requirements [40 CFR §63.104, §63.113, §63.114, §63.119 and §63.126]

- d. To assure compliance with the standards listed in Section 2.2 A.1.b, above, the Permittee shall comply with the following control and operation requirements:
- i. The organic HAP emissions from the Group 1 process vent stream (ID No. VS2A) shall be controlled by the catalytic oxidizer (ID No. CD-2A);
 - ii. The organic HAP emissions from the Group 1 storage vessels (ID Nos. ES7F1 - ES7F8, while storing methanol, and ES3M1) and vent stream (ID No. VS4A.2) shall be controlled by the thermal oxidizer (ID No. CD-4A);
 - iii. The catalytic oxidizer (ID No. CD-2A) shall be operated such that a minimum daily average upstream temperature of 685 degrees Fahrenheit (°F) and a minimum daily average temperature drop across the catalyst bed of 250 °F is maintained at all times, except as allowed under Section 2.2 A.1.d.vi, below;
 - iv. The thermal oxidizer (ID No. CD-4A) shall be operated such that a minimum firebox daily average temperature of 1,250 °F is maintained at all times, except as allowed under Section 2.2 A.1.d.vi, below; and
 - v. For any process vent bypass lines, the Permittee shall either:
 - (A) Properly install, maintain, and operate a flow indicator that takes flow readings at least once every 15 minutes at the entrance to any bypass line that could divert the gas stream to the atmosphere; or
 - (B) Secure the bypass line in the non-diverting position with a car-seal or a lock-and-key type configuration.

The requirements of Section 2.2 A.1.d.v do not apply to equipment such as low leg drains, high point bleeds, analyzer vents, open-ended valves or lines, and pressure relief valves needed for safety purposes.
 - vi. The requirements of Sections 2.2 A.1.d.i through iv, above, do not apply to a source during periods of non-operation, startup, shutdown or malfunction [as defined in paragraph 40 CFR §63.101(b)] if that source is operated during such periods in accordance with 40 CFR §63.102(a)(4).

- vii. The Permittee shall restrict loadout of liquid products that contain organic HAP with a rack weighted average vapor pressure greater than or equal to 10.3 kilopascals (1.49 pounds per square inch) from the loading and unloading operations (ID Nos. ES-MU and ES-FL) to less than 650,000 liters (171,712 gallons) per year; and
- viii. The Permittee shall operate the heat exchange system (ID No. HX1) such that a minimum pressure on the cooling water side that is at least 35 kilopascals (5.1 pounds per square inch) greater than the maximum pressure on the process side is maintained.
- viii. The Permittee shall be deemed in noncompliance with 15A NCAC 2D .1111 and 40 CFR Part 63, Subparts F and G if the control and operational requirements of Sections 2.2 A.1.d.i through 2.2 A.1.d.viii, above, are not met.

Monitoring [40 CFR §63.6, §63.114, §63.123, §63.130, §63.148 and §63.152 and Tables 3 and 7 of Subpart G]

- e. To assure compliance with the standards listed in Section 2.2 A.1.b, above, the Permittee shall comply with the following monitoring requirements:
 - i. For the catalytic oxidizer (ID No. CD-2A) the Permittee shall, in accordance with the manufacturer's specifications, install, calibrate, maintain and operate temperature monitoring devices equipped with continuous recorders in the gas stream immediately before and after the catalyst bed;
 - ii. For the thermal oxidizer (ID No. CD-4A) the Permittee shall, in accordance with the manufacturer's specifications, install, calibrate, maintain and operate a temperature monitoring device equipped with a continuous recorder either in the firebox or in the duct work immediately downstream of the firebox in a position before any substantial heat exchange occurs;
 - iii. The Permittee shall monitor and record the parameters of Sections 2.2 A.1.e.i and 2.2 A.1.e.ii and manipulate the recorded data values as follows:
 - (A) The monitoring system shall measure data values at least once every 15 minutes;
 - (B) The owner/operator shall record either:
 - (1) Each measured data value; or
 - (2) Block average values for 15-minute or shorter periods calculated from all measured data values that are not excluded by Section 2.2 A.1.e.iii.(E), below, during each period or a least one measured data value per minute if measured more frequently than once per minute.
 - (C) Daily average values of each monitored parameter shall be calculated for each operating day as the average of all values for a monitored parameter recorded during the operating day, except that:
 - (1) Data excluded by Section 2.2 A.1.e.iii.(E), below, shall not be used to compute daily average values; and
 - (2) If all recorded values for a monitored parameter during an operating day are within the established range, the owner/operator may record that all values were within the established range and the values recorded under Section 2.2 A.1.e.iii.(D), below, rather than calculating and recording a daily average for that operating day.
 - (D) If the daily average value of a monitored parameter for a given operating day is within the established range, the owner/operator shall either:
 - (1) Retain block hourly average values for that operating day and discard, at or after the end of that operating day, the values recorded under Section 2.2 A.1.e.iii.(B), above; or
 - (2) Retain the values recorded under Section 2.2 A.1.e.iii.(B), above.
 - (E) Monitoring data recorded during periods of monitoring system breakdowns, repairs, calibration checks and zero (low-level) and high-level adjustments; or equipment start-ups, shutdowns, malfunctions or non-operation (if such non-operation results in cessation of the emissions to which the monitoring applies) shall not be included in any computed averages. The Permittee shall keep records of the times and durations of such periods and any other periods during process or control device operation when monitors are not operating.
 - iv. For any process vent bypass lines equipped with flow indicators, the Permittee shall take flow readings at least once every 15 minutes;
 - v. For any process vent bypass lines equipped with seals or closure mechanisms, the Permittee shall conduct a visual inspection of the seal or closure mechanism at least once every month to ensure that the valve is maintained in the non-diverting position and the gas stream is not diverted through the bypass line;

- vi. For the loading and unloading operations the Permittee shall monitor:
 - (A) The actual throughput of the transfer operations;
 - (B) The weight percent of organic HAP in the liquids loaded; and
 - (C) The rack weighted average HAP partial pressure of the transfer operations.
- vii. The Permittee shall monitor the pressure on both the cooling water side and the process side of the heat exchange system (ID No. HX1) monthly.
- viii. The Permittee shall develop a start-up, shutdown, and malfunction (SSM) plan [as described in 40 CFR §63.6(e)(3)];
- ix. The Permittee shall establish, maintain and implement a leak detection and repair (LDAR) program that complies with §63.172 of 40 CFR Part 63, Subpart H for all subject equipment. Subject equipment includes equipment that is in organic HAP service, as determined in accordance with §63.100(f) and §63.101 [i.e. equipment that contains or contacts fluid that is greater than or equal to 5% HAP by weight for 300 or more hours per consecutive 12-month period]. The Permittee shall comply with the monitoring, recordkeeping and reporting (MRR) requirements of 40 CFR Part 63, Subpart H for all subject equipment; and
- x. The Permittee shall comply with the monitoring requirements of 40 CFR §63.146(b)(1) and §63.147(b)(8) (as applicable) for the wastewater streams at this facility.
- xi. The Permittee shall be deemed in noncompliance with 15A NCAC 2D .1111 and 40 CFR Part 63, Subparts F and G if the monitoring required by Sections 2.2 A.1.e.i through 2.2 A.1.e.x, above, is not conducted or if that monitoring indicates (an) exceedance(s) of the standards in Section 2.2 A.1.b of this permit.

Recordkeeping [40 CFR §63.10, §63.118, §63.123, §63.130, §63.148 and §63.152 and Tables 3 and 7 of Subpart G]

- f. The Permittee shall maintain records of the monitoring required by Sections 2.2 A.1.e.i through 2.2 A.1.e.x, above in a logbook (written or electronic format) on-site and made available to an authorized representative upon request. The logbook shall include:
 - i. For catalytic oxidizer (ID No. CD-2A): The required records of upstream temperature, downstream temperature and temperature change across the catalyst bed.
 - ii. For thermal oxidizer (ID No. CD-4A): The required records of firebox temperatures.
 - iii. For the methanol/formaldehyde storage vessels (ID Nos. ES3M1 and ES7F1 through ES7F8): Keep readily accessible records showing the dimensions and capacity of each storage vessel for as long as the storage vessel is in operation and retains Group 1 or Group 2 status.
 - iv. For any process vent bypass lines equipped with flow indicators:
 - (A) Hourly records of whether the flow indicator was operating and whether a diversion was detected at any time during the hour; and
 - (B) Records of the times and durations of all periods when the gas stream is diverted to the atmosphere or the monitor is not operating.
 - v. For any process vent bypass lines equipped with seals or closure mechanisms: Records of the monthly visual inspections of the seals or closure mechanism. The logbook shall also include:
 - (A) The duration of all periods when the seal mechanism is broken;
 - (B) The duration of all periods when the bypass line valve position has changed;
 - (C) The duration of all periods when the key for a lock-and-key type lock has been checked out; and
 - (D) A record of any car-seal that has broken.
 - vi. For the loading and unloading operations (ID Nos. ES-FL and ES-MU): Records of monthly and annual (for the consecutive 12-month period ending during that month) values of the following:
 - (A) The actual throughput of the transfer operations;
 - (B) The weight percent of organic HAP in the liquids loaded; and
 - (C) The rack weighted average HAP partial pressure of the transfer operations.

- vii. For the heat exchange system (ID No. HX1): Records of monthly monitoring of the pressure on both the cooling water side and the process side of the heat exchange system.
- viii. The Permittee shall comply with the recordkeeping requirements of the start-up, shutdown, and malfunction plan for all subject equipment.
- ix. The Permittee shall comply with the recordkeeping requirements of 40 CFR §63.146(b)(1) and §63.147(b)(8) (as applicable) for the wastewater streams at this facility.
- x. The Permittee will be deemed in noncompliance with 15A NCAC 2D .1111 and 40 CFR Part 63, Subparts F and G if the records required by Sections 2.2 A.1.f.i through 2.2 A.1.f.i.x, above, are not maintained or if those records indicate (an) exceedance(s) of the standards in Section 2.2 A.1.b of this permit.

Reporting [40 CFR §63.9, §63.10, §63.114, §63.118, §63.122 and §63.152 and Tables 3 and 7 of Subpart G]

- g. The Permittee shall perform the following reporting:
 - i. The reporting and notifications required by 40 CFR Part 63, Subpart A;
 - ii. The Permittee shall comply with the reporting requirements of the SSM plan for all subject equipment.
 - iii. Notification of Compliance Status as described at 40 CFR §63.152(b) and Other Reports as described at 40 CFR §63.152(d), as applicable; and
 - iv. The Permittee shall submit a semiannual Periodic Report, as described at 40 CFR §63.152(c), by January 30 of each calendar year for the preceding six-month period between July and December and by July 30 of each calendar year for the preceding six-month period between January and June.

The Periodic Report shall clearly indicate any deviations from the requirements of this permit and/or 40 CFR Part 63, Subparts F and G and include:

(A) For catalytic oxidizer (ID No. CD-2A):

- (1) Daily average temperature change across the catalyst bed for all operating days during which the daily average temperature change across the catalyst bed is less than 250 °F;
- (2) Daily average upstream temperature for all operating days during which the daily average upstream temperature is less than 685 °F; and
- (3) For each excursion caused by insufficient monitoring data as defined at 40 CFR §63.152(c)(2)(ii)(A): The dates and durations of periods during which insufficient monitoring data was collected.

(B) For thermal oxidizer (ID No. CD-4A):

- (1) Daily average firebox temperature for all operating days during which the daily average firebox temperature is less than 1,250 °F; and
- (2) For each excursion caused by insufficient monitoring data as defined at 40 CFR §63.152(c)(2)(ii)(A): The dates and durations of periods during which insufficient monitoring data was collected.

(C) For any process vent bypass lines equipped with flow indicators: The dates, times and durations of all periods during which the process vent stream is diverted to the atmosphere

(D) For any process vent bypass lines equipped with seals or closure mechanisms: The dates, times and durations of all periods during which the seal mechanism is broken, the bypass line valve position has changed, or the key to unlock the bypass line valve was checked out;

(E) Reports of process changes, as defined at 40 CFR §63.115(e), to process vents as required under 40 CFR §63.118(g), (h), (i) and (j). These reports are not required for process changes that are exempted from this requirement pursuant to 40 CFR §63.152(k); and

(F) Notification if any Group 2 emission point becomes a Group 1 emission point, and a compliance schedule as required in 40 CFR §63.100.

- B. Four phenol storage tanks (ID Nos. ESR1, ESR2, ESR5 and ESR10);**
One urea-formaldehyde concentrate (UFC) storage tank (ID No. ESR8);
Phenol-formaldehyde resin tank farm consisting of 52 tanks of various capacities (ID No. PFTF);
Urea-formaldehyde resin tank farm consisting of 7 tanks of various capacities (ID No. UFTF);
Acetone-formaldehyde resin tank farm consisting of 6 tanks of various capacities (ID No. AFTF);
One aqueous ammonia storage tank (ID No. ES-S19) and associated scrubber tank (56 inch minimum liquid level from tank bottom, ID No. CD-S19);
One heat exchange system (ID Nos. HX2);
Continuous process vent stream (ID No. VS5A) and associated bagfilter (14,500 square feet of filter area, ID No. CD-5A);
One batch non-reactor vessel, mix/blend tank kettle 6 (ID No. ES4.6);
Aggregate batch process vent stream (ID No. VS4A.1) and associated natural gas/propane-fired thermal oxidizer (2.9 million Btu per hour maximum heat input rate, ID No. CD-4A); and
Vent stream (ID No. VS4A.2) and associated natural gas/propane-fired thermal oxidizer (2.9 million Btu per hour maximum heat input rate, ID No. CD-4A)

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

Emission Source(s)	Limits/Standards	Applicable Regulation
Storage vessels (ID Nos. PFTF, UFTF, AFTF, ES-S19, ESR1, ESR2, ESR5, ESR8 and ESR10)	No applicable requirements.	15A NCAC 2D .1111 [40 CFR §63.1404(a)]
Continuous process vent stream (ID No. VS5A)	No applicable requirements.	15A NCAC 2D .1111 [40 CFR §63.1405(a)]
Non-reactor batch process vents (ID Nos. ES4.6, ES4.9 through ES4.13 and S-13)	Reduce facility-wide total organic HAP emissions from all non-reactor batch process vents, combined, by at least 62 percent by weight.	15A NCAC 2D .1111 [40 CFR §63.1407(a)(3)]
Aggregate batch process vent stream (ID No. VS4A.1) and vent stream (ID No. VS4A.2)	Reduce total organic HAP emissions by at least 83 percent by weight or to a concentration of 20 parts per million by volume, whichever is less stringent.	15A NCAC 2D .1111 [40 CFR §63.1408]
Heat exchange system (ID No. HX2)	Monitor heat exchange system's cooling water for presence of formaldehyde or total organic carbon and repair any equipment leaks indicated.	15A NCAC 2D .1111 [40 CFR §63.1409]
Process vent bypass lines	Install a flow indicator at the entrance to any bypass line that could divert the gas stream to the atmosphere or secure the bypass line in the non-diverting position with a car-seal or a lock-and-key type configuration.	15A NCAC 2D .1111 [40 CFR §63.1415(d)]
Equipment leaks	Establish, maintain and implement a leak detection and repair (LDAR) program that complies with the requirements of 40 CFR Part 63, Subpart UU	15A NCAC 2D .1111 [40 CFR §63.1410]

1. 15A NCAC 2D .1111: MAXIMUM ACHIEVABLE CONTROL TECHNOLOGY
[40 CFR Part 63, Subparts OOO and UU]

Applicability [40 CFR §63.1400and §63.1019]

- a. The Permittee shall comply with all applicable requirements of 15A NCAC 2D .1111 "Maximum Achievable Control Technology" and 40 CFR Part 63, including Subparts OOO "National Emission Standards for Organic Hazardous Air Pollutants: Manufacture of Amino/Phenolic Resins", UU "National Emission Standards for Equipment Leaks - Control

Level 2 Standards” and A “General Provisions.”

Standards [40 CFR §63.1400, §63.1403, §63.1407, and §63.1408]

- b. In accordance with 40 CFR §63.1400, §63.1403, §63.1407, and §63.1408 the Permittee shall limit organic Hazardous Air Pollutant (HAP) emissions to the atmosphere from the affected sources as follows:
- i. For the non-reactor batch process vents (ID Nos. ES4.6, ES4.9 through ES4.13 and S-13): The facility-wide total organic HAP emissions shall be reduced by at least 62 percent by weight. This requirement does not apply to a source during periods of non-operation, or startup, shutdown or malfunction [as described at 40 CFR §63.1400(k)(1) through (3) and defined at 40 CFR §63.1402] if that source is operated during such periods in accordance with 40 CFR §63.1400(k)(4); and
 - ii. For aggregate batch process vent stream (ID No. VS4A.1) and vent stream (ID No. VS4A.2): The total organic HAP emissions shall be either reduced by at least 83 percent by weight or reduced to a concentration of no more than 20 parts per million by volume, whichever is less stringent. This requirement does not apply to a source during periods of non-operation, or startup, shutdown or malfunction [as described at 40 CFR §63.1400(k)(1) through (3) and defined at 40 CFR §63.1402] if that source is operated during such periods in accordance with 40 CFR §63.1400(k)(4).

Testing [40 CFR §63.1414 and 15A NCAC 2D .2601]

- c. If emissions testing is required, the testing shall be performed in accordance with 15A NCAC 2D .2601, 40 CFR §63.1414 and General Condition JJ found in Section 3. If the results of this testing indicates noncompliance with the standards given in Section 2.2 B.1.b, above, the Permittee shall be deemed in noncompliance with 40 CFR Part 63, Subpart OOO and 15A NCAC 2D .1111.

Control Requirements [40 CFR §63.1400, §63.1403(a), §63.1407, §63.1408, §63.1410 and §63.1415(d)]

- d. To assure compliance with the standards listed in Section 2.2 B.1.b, above, the Permittee shall comply with the following control requirements:
- i. The organic HAP emissions from the aggregate batch process vent stream (ID No. VS4A.1) and vent stream (ID No. VS4A.2) shall be controlled by the thermal oxidizer (ID No. CD-4A);
 - ii. The thermal oxidizer (ID No. CD-4A) shall be operated such that a minimum firebox daily average temperature of 1,250 degrees Fahrenheit (°F) is maintained at all times, except as allowed under Section 2.2 B.1.d.v, below;
 - iii. For any process vent bypass lines, the Permittee shall either:
 - (A) Properly install, maintain, and operate a flow indicator that takes flow readings at least once every 15 minutes at the entrance to any bypass line that could divert the gas stream to the atmosphere; or
 - (B) Secure the bypass line in the non-diverting position with a car-seal or a lock-and-key type configuration.

The requirements of Section 2.2 B.1.d.iii do not apply to certain equipment such as low leg drains, high point bleeds, analyzer vents, open-ended valves or lines, and pressure relief valves needed for safety purposes.
 - iv. Closed vent systems that are utilized to vent emissions to a control device in order to comply with 40 CFR Part 63, Subpart OOO shall be vented through a closed vent system that meets the requirements of 40 CFR Part 63, Subpart SS as modified in §63.1410 of 40 CFR Part 63, Subpart OOO.
 - v. The requirements of Sections 2.2 B.1.d.i and ii, above, do not apply to a source during periods of non-operation, startup, shutdown or malfunction [as described at 40 CFR §63.1400(k)(1) through (3) and defined at 40 CFR §63.1402] if that source is operated during such periods in accordance with 40 CFR §63.1400(k)(4).
 - vi. The Permittee shall be deemed in noncompliance with 15A NCAC 2D .1111 and 40 CFR Part 63, Subpart OOO if the control requirements of Sections 2.2 B.1.d.i through iv, above, are not met.

Monitoring [40 CFR §63.1409, §63.1410, §63.1415, §63.1416 and Tables 3 and 4 of Subpart OOO]

- e. To assure compliance with 40 CFR Part 63, Subpart OOO and the standards listed in Section 2.2 B.1.b, above, the Permittee shall comply with the following monitoring requirements:
- i. For the thermal oxidizer (ID No. CD-4A) the Permittee shall, in accordance with the manufacturer’s specifications, install, calibrate, maintain and operate a temperature monitoring device equipped with a continuous recorder either in the firebox or in the duct work immediately downstream of the firebox in a position before any substantial heat exchange occurs;

- ii. The Permittee shall monitor and record the thermal oxidizer (ID No. CD-4A) firebox temperature and manipulate the recorded data values as follows:
 - (A) The monitoring system shall measure data values at least once every 15 minutes;
 - (B) The owner/operator shall record either:
 - (1) Each measured data value; or
 - (2) Average values for 1-hour or shorter periods calculated from all measured firebox temperature values, that are not excluded by Section 2.2 B.1.e.ii.(D), below, during each period or a least one measured data value per minute if measured more frequently than once per minute.
 - (C) As described in 40 CFR 63.1416(c), the Permittee shall calculate daily average, batch cycle average, or block average values of the continuously monitored firebox temperature values for each operating day as the average of all values for a monitored parameter recorded during the appropriate period, except that:
 - (1) Data excluded by Section 2.2 B.1.e.ii.(D), below, shall not be used to compute daily average values; and
 - (2) If all recorded firebox temperature values during an operating day or block are greater than or equal to 1,250 °F, the owner/operator may record that all values were within the established range and the values recorded under Section 2.2 B.1.e.ii.(B), above, rather than calculating and recording a daily average or block average for that operating day.
 - (D) Monitoring data recorded during periods of monitoring system breakdowns, repairs, calibration checks and zero (low-level) and high-level adjustments; or equipment start-ups, shutdowns, malfunctions or non-operation (if such non-operation results in cessation of the emissions to which the monitoring applies) shall not be included in any computed averages. The Permittee shall keep records of the times and durations of such periods and any other periods during process or control device operation when monitors are not operating.
- iii. For any process vent bypass lines equipped with flow indicators, the Permittee shall take flow readings at least once every 15 minutes;
- iv. For any process vent bypass lines equipped with seals or closure mechanisms, the Permittee shall conduct a visual inspection of the seal or closure mechanism at least once every month to ensure that the valve is maintained in the non-diverting position and the gas stream is not diverted through the bypass line;
- v. The Permittee shall develop a start-up, shutdown, and malfunction (SSM) plan [as described in 40 CFR §63.1416(b)] and comply with the monitoring requirements of that SSM plan for all subject equipment;
- vi. The Permittee shall comply with the monitoring, recordkeeping and reporting requirements of 40 CFR Part 63, Subpart SS as modified in §63.1410(h) of 40 CFR Part 63, Subpart OOO for closed vent systems that are utilized to vent emissions to a control device in order to comply with 40 CFR Part 63, Subpart OOO;
- vii. In accordance with paragraph §63.1400(k)(2) of 40 CFR Part 63, Subpart OOO, the Permittee must establish, maintain and implement a leak detection and repair (LDAR) program that complies with 40 CFR Part 63, Subpart UU and 40 CFR §63.1410 for all subject equipment. Subject equipment includes equipment subject to 40 CFR Part 63, Subpart OOO that contains or contacts HAP greater than or equal to 5% by weight [as determined in accordance with section §63.1410] for 300 or more hours per consecutive 12-month period. The Permittee shall comply with the monitoring, recordkeeping and reporting requirements of 40 CFR Part 63, Subpart UU for all subject equipment; and
- viii. The Permittee shall monitor the heat exchange system (ID No. HX2) used to cool process equipment subject to 40 CFR Part 63, Subpart OOO in accordance with 40 CFR §63.1409. The Permittee may use ASTM Method D6303-98 to monitor formaldehyde in the cooling water of the subject heat exchange systems as approved by the US EPA in a letter dated November 13, 2003. The Permittee shall:
 - (A) Monitor the cooling water quarterly for total organic carbon or formaldehyde; and
 - (B) If a leak is detected then, except for allowed repair delays described at 40 CFR §63.1409(e), the Permittee shall repair the leak as follows:
 - (1) The leak shall be repaired as soon as practical but not later than 45 calendar days after receiving results of monitoring tests indicating a leak; and

(2) Once the leak has been repaired, the Permittee shall confirm that the heat exchange system has been repaired within 7 calendar days of the repair or startup, whichever is later.

ix. The Permittee shall be deemed in noncompliance with 15A NCAC 2D .1111 and 40 CFR Part 63, Subpart OOO if the monitoring required by Sections 2.2 B.1.e.i through viii, above, is not conducted or if that monitoring indicates (an) exceedance(s) of the standards in Section 2.2 B.1.b, above.

Recordkeeping [40 CFR §63.6, §63.1416 and Tables 3 and 4 of 40 CFR Part 63, Subpart OOO]

- f. The Permittee shall maintain records of the monitoring required by Sections 2.2 B.1.e.i through viii, above, in a logbook (written or electronic format) on-site and made available to an authorized representative upon request. The logbook shall include:
- i. For thermal oxidizer (ID No. CD-4A): The required records of firebox temperatures.
 - ii. For any process vent bypass lines equipped with flow indicators:
 - (A) Hourly records of whether the flow indicator was operating and whether a diversion was detected at any time during the hour; and
 - (B) Records of the times and durations of all periods when the gas stream is diverted to the atmosphere or the monitor is not operating.
 - iii. For any process vent bypass lines equipped with seals or closure mechanisms: Records of the monthly visual inspections of the seals or closure mechanism. The logbook shall also include:
 - (A) The duration of all periods when the seal mechanism is broken;
 - (B) The duration of all periods when the bypass line valve position has changed;
 - (C) The duration of all periods when the key for a lock-and-key type lock has been checked out; and
 - (D) A record of any car-seal that has broken.
 - iv. For heat exchange system (ID No. HX2): Records of the leak detection testing and results, the presence of any leak, and when it was repaired.
 - v. The Permittee shall comply with the recordkeeping requirements of the SSM plan for all subject equipment.
 - vi. The Permittee will be deemed in noncompliance with 15A NCAC 2D .1111 and 40 CFR Part 63, Subpart OOO if the records required by Sections 2.2 B.1.f.i through v are not maintained or if those records indicate (an) exceedance(s) of the standards in Section 2.2 B.1.b of this permit.

Reporting [40 CFR §63.1400(j), §63.1417 and Table 5 of 40 CFR Part 63, Subpart OOO]

- g. The Permittee shall perform the following reporting:
- i. The reporting and notifications required by both 40 CFR Part 63, Subpart A and §63.1400(j) and Table 5 of 40 CFR Part 63, Subpart OOO;
 - ii. Precompliance Reports as described at 40 CFR §63.1417(d), Notification of Compliance Status as described at 40 CFR §63.1417(e) and Other Reports as described at 40 CFR §63.1417(h), as applicable;
 - iii. Startup, Shutdown and Malfunction Reports in accordance with 40 CFR §63.1417(g); and
 - iv. Periodic Reports, as described at 40 CFR §63.1417(f), by January 30 of each calendar year for the preceding six-month period between July and December and by July 30 of each calendar year for the preceding six-month period between January and June.

The Periodic Report shall clearly indicate any deviations from the requirements of this permit and/or 40 CFR Part 63, Subpart OOO and include the information required pursuant to 40 CFR §63.1417(f)(3) through (11), as applicable, or a statement that the affected source was in compliance for the preceding 6-month period and no activities specified in 40 CFR §63.1417(f)(3) through (11) occurred during the preceding 6-month period.

C. Continuous process vent stream (ID No. VS5A) and associated bagfilter (14,500 square feet of filter area, ID No. CD-5A);

Urea-formaldehyde concentrate storage tank (ID No. ESR8);

Four phenol storage tanks (ID Nos. ESR1, ESR2, ESR5 and ESR10);

Phenol-formaldehyde resin tank farm consisting of 52 tanks of various capacities (ID No. PFTF);

Urea-formaldehyde resin tank farm consisting of 7 tanks of various capacities (ID No. UFTF);

Acetone-formaldehyde resin tank farm consisting of 6 tanks of various capacities (ID No. AFTF);

One aqueous ammonia storage tank (ID No. ES-S19) and associated scrubber tank (56 inch minimum liquid level from tank bottom, ID No. CD-S19);

Phenol unloading operations (ID No. ES-PU);

One batch non-reactor vessel, mix/blend tank kettle 6 (ID No. ES4.6);

Formaldehyde production leak detection and repair (LDAR) program equipment;

Resin production LDAR program equipment;

Process vent stream (ID No. VS2A) and associated natural gas/propane-fired catalytic oxidizer (4.5 cubic feet of catalyst, 4.0 million Btu per hour maximum heat input primary burner, ID No. CD-2A); and

Aggregate batch process vent stream (ID No. VS4A.1) and vent stream (ID No. VS4A.2) and associated natural gas/propane-fired thermal oxidizer (2.9 million Btu per hour maximum heat input rate ID No. CD-4A)

STATE-ENFORCEABLE ONLY

1. 15A NCAC 2D .1100 CONTROL OF TOXIC AIR POLLUTANTS (TAP)

a. Pursuant to 15A NCAC 2D .1100 and in accordance with the approved application for an air toxic compliance demonstration, received July 11, 2007, the following permit limits shall not be exceeded:

TAP	Emission Source(s)	Emission Limit(s)
Formaldehyde	Process vent stream (ID No. VS2A)	0.514 pounds per hour
	Aggregate batch process vent stream (ID No. VS4A.1) or vent stream (ID No. VS4A.2)	0.43 pounds per hour
	Formaldehyde production LDAR program equipment	0.0054 pounds per hour
	Resin production LDAR program equipment	0.015 pounds per hour
	Storage and loadout of resins in phenol-formaldehyde resin tank farm (ID No. PFTF), urea-formaldehyde resin tank farm (ID No. UFTF) and acetone-formaldehyde resin tank farm (ID No. AFTF)	0.23 pounds per hour
	Continuous process vent stream (ID No. VS5A)	4.8 pounds per hour
Phenol	Aggregate batch process vent stream (ID No. VS4A.1) or vent stream (ID No. VS4A.2)	0.04 pounds per hour
	Resin production LDAR program equipment	0.01 pounds per hour
	Storage and loadout of resins in phenol-formaldehyde resin tank farm (ID No. PFTF), urea-formaldehyde resin tank farm (ID No. UFTF) and acetone-formaldehyde resin tank farm (ID No. AFTF)	0.03 pounds per hour
	Continuous process vent stream (ID No. VS5A)	2.26 pounds per hour
	Phenol storage tanks (ID Nos. ESR1, ESR2, ESR5 and ESR10)	1.59 pounds per hour
	Phenol unloading operations (ID No. ES-PU)	0.6 pounds per hour
Ammonia	Continuous process vent stream (ID No. VS5A)	4.44 pounds per hour

TAP	Emission Source(s)	Emission Limit(s)
	Aqueous ammonia storage tank (ID No. ES-S19)	4.5 pounds per hour

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

- b. To ensure compliance with the emission limits in Section 2.2 C.1.a, above, the Permittee shall comply with the following control requirements:
 - i. Formaldehyde and phenol emissions from process vent stream (ID No. VS2A) shall be controlled with catalytic oxidizer (ID No. CD-2A);
 - ii. Formaldehyde and phenol emissions from aggregate batch process vent stream (ID Nos. VS4A.1) and vent stream (ID No. VS4A.2) shall be controlled with thermal oxidizer (ID No. CD-4A);
 - iii. While being utilized to control emissions, the thermal oxidizer (ID No. CD-4A) shall be operated such that a minimum daily average firebox temperature of 1,250 degrees Fahrenheit (°F) is maintained;
 - iv. While being utilized to control emissions, the catalytic oxidizer (ID No. CD-2A) shall be operated such that a minimum daily average upstream temperature of 685 °F and a minimum daily average temperature drop across the catalyst bed of 228 °F is maintained;
 - v. The Permittee shall not load aqueous ammonia into storage tank (ID No. ES-S19) without controlling the associated emissions with the scrubber tank (ID No. CD-S19);
 - vi. While being utilized to control emissions, the scrubber tank (ID No. CD-S19) shall be operated such that a minimum liquid level of 56 inches above the tank bottom is maintained.
 - vii. The Permittee shall be deemed in noncompliance with 15A NCAC 2D .1100 if the control requirements of Sections 2.2 C.1.b.i through vi, above, are not met.

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

- c. To ensure compliance with the limits in Section 2.2 C.1.a, above, the Permittee shall comply with the following monitoring requirements:
 - i. Comply with the monitoring requirements of Sections 2.2 A.1.e.i through 2.2 A.1.e.v, above; and
 - ii. Conduct monitoring of the liquid level of the scrubber tank (ID No. CD-S19) immediately prior to each filling of the aqueous ammonia storage tank (ID No. ES-S19); and

The Permittee shall be deemed in noncompliance with 15A NCAC 2D .1100 if the monitoring requirements of Sections 2.2 C.1.c.i and 2.2 C.1.c.ii, above, are not performed.

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

- d. To ensure compliance with the limits in Section 2.2 C.1.a, above, the Permittee shall comply with the following recordkeeping requirements:
 - i. Comply with the recordkeeping requirements of Sections 2.2 A.1.f.i, ii, iv and v, above; and
 - ii. The results of liquid level monitoring on the scrubber tank (ID No. CD-S19) shall be maintained in a logbook (written or electronic format) on-site and made available to an authorized representative upon request. The logbook shall include records of the following:
 - (A) The date and time of each recorded action;
 - (B) The monitored scrubber tank liquid levels; and
 - (C) The results of any maintenance performed on the scrubber tank.

The Permittee shall be deemed in noncompliance with 15A NCAC 2D .1100 if the recordkeeping requirements of Sections 2.2 C.1.d.i and 2.2 C.1.d.ii, above, are not met.

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

- e. Within 30 days of a request from the DAQ, the Permittee shall submit a report of any maintenance performed on the scrubber tank (ID No. CD-S19), catalytic oxidizer (ID No. CD-2A), and/or thermal oxidizer (ID No. CD-4A).
- f. The Permittee shall perform the following reporting requirements:
 - i. Comply with the reporting requirements of Sections 2.2 A.1.g.iv.(A) through (D), above; and

- ii. In the semiannual reports submitted to comply with Section 2.2 C.1.f.i, above, include a summary of the monitoring and recordkeeping activities associated with scrubber tank (ID No. CD-S19), and clearly indicate any deviations from the requirements of this permit.

Proposed

D. Facility-wide affected sources:**1. 15A NCAC 2D .0958: WORK PRACTICES FOR SOURCES OF VOLATILE ORGANIC COMPOUNDS**

- a. Pursuant to 15A NCAC 2D .0958, for all sources that use volatile organic compounds (VOC) as solvents, carriers, material processing media, or industrial chemical reactants, or in similar uses that mix, blend, or manufacture volatile organic compounds, or emit volatile organic compounds as a product of chemical reactions, and whose emissions of VOC are greater than 15 pounds per day; the Permittee shall:
- Store all material, including waste material, containing volatile organic compounds in tanks or in containers covered with a tightly fitting lid that is free of cracks, holes, or other defects, when not in use,
 - Clean up spills of volatile organic compounds as soon as possible following proper safety procedures,
 - Store wipe rags containing volatile organic compounds in closed containers,
 - Not clean sponges, fabric, wood, paper products, and other absorbent materials with volatile organic compounds,
 - Transfer solvents containing volatile organic compounds used to clean supply lines and other coating equipment into closable containers and close such containers immediately after each use, or transfer such solvents to closed tanks, or to a treatment facility regulated under section 402 of the Clean Water Act,
 - Clean mixing, blending, and manufacturing vats and containers containing volatile organic compounds by adding cleaning solvent and close the vat or container before agitating the cleaning solvent. The spent cleaning solvent shall then be transferred into a closed container, a closed tank or a treatment facility regulated under section 402 of the Clean Water Act. [15A NCAC 2D .0958(c)]
- b. When cleaning parts with a solvent containing a volatile organic compound, the Permittee shall:
- Flush parts in the freeboard area,
 - Take precautions to reduce the pooling of solvent on and in the parts,
 - Tilt or rotate parts to drain solvent and allow a minimum of 15 seconds for drying or until all dripping has stopped, whichever is longer,
 - Not fill cleaning machines above the fill line,
 - Not agitate solvent to the point of causing splashing. [15A NCAC 2D .0958(d)]

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

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

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

- d. The results of the inspections shall be maintained in a logbook (written or electronic format) on-site and made available to an authorized representative upon request. The logbook shall record the following:
- The date and time of each inspection; and
 - The results of each inspection noting whether or not noncompliant conditions were observed.

If the required records are not maintained the Permittee shall be deemed to be in noncompliance with rule 15A NCAC 2D .0958.

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.

STATE-ENFORCEABLE ONLY**2. 15A NCAC 2D .1806: CONTROL AND PROHIBITION OF ODOROUS EMISSIONS**

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

STATE-ENFORCEABLE ONLY

3. 15A NCAC 2Q .0705 EXISTING FACILITIES and SIC CALLS for TOXIC AIR POLLUTANT EMISSIONS LIMITATION REQUIREMENT

- a. As of August 6, 2007 emissions of toxic air pollutants have been demonstrated on a facility-wide basis (excluding those sources exempt under 15A NCAC 2Q .0702 "Exemptions") that each of the toxic air pollutants (TAPs) emitted from all sources at the facility are either below its respective toxic permit emission rates (TPER) listed in 15A NCAC 2Q .0711 - "Emission Rates Requiring a Permit" or the TAPs are in compliance with 15A NCAC 2D .1100 "Control of Toxic Air Pollutants" as described in Section 2.2 C.1, above.
- b. The facility shall be operated and maintained in such a manner that any new, existing or increased actual emissions of any TAP listed in 15A NCAC 2Q .0711 or in this permit from all sources at the facility (excluding those sources exempt under 15A NCAC 2Q .0702 "Exemptions"), including fugitive emissions and emission sources not otherwise required to have a permit, will not exceed its respective TPER listed in 15A NCAC 2Q .0711 without first obtaining an air permit to construct or operate.
- c. PRIOR to exceeding any of the TPERs listed in 15A NCAC 2Q .0711, the Permittee shall be responsible for obtaining an air permit to emit TAPs and for demonstrating compliance with the requirements of 15A NCAC 2D .1100 "Control of Toxic Air Pollutants".
- d. The Permittee shall maintain at the facility records of operational information sufficient for demonstrating to the Division of Air Quality staff that actual TAPs are less than the rate listed in 15A NCAC 2Q .0711.
- e. The TPER table listed below is provided to assist the Permittee in determining when an air permit is required pursuant to 15A NCAC 2Q .0711 and may not represent all TAPs being emitted from the facility. This table will be updated at such time as the permit is either modified or renewed.

Toxic Air Pollutant	CAS Number	Toxic Permit Emission Rate (TPER)		
		Pounds per hour	Pounds per day	Pounds per year
No toxic air pollutants (TAPs) are listed in this table because, according to the demonstration submitted by the Permittee on July 6, 2007, the only sources of TAPs that are emitted at rates below their TPERs qualify as "combustion sources" as defined at 15A NCAC 2Q .0703(6) and, therefore, are currently deferred from the NC toxics program per 15A NCAC 2Q .0702(a)(18).				

SECTION 3 - GENERAL CONDITIONS

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

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. Reporting Requirements
Any of the following that would result in new or increased emissions from the emission source(s) listed in Section 1 must be reported to the Regional Supervisor, DAQ:
 - a. changes in the information submitted in the application;
 - b. changes that modify equipment or processes; or
 - c. changes in the quantity or quality of materials processed.If appropriate, modifications to the permit may then be made by the DAQ to reflect any necessary changes in the permit conditions. In no case are any new or increased emissions allowed that will cause a violation of the emission limitations specified herein.
2. Section 502(b)(10) Changes [15A NCAC 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.
3. 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.
4. Emissions Trading [15A NCAC 2Q .0523(c)]
To the extent that emissions trading is allowed under 15A NCAC 2D, including subsequently adopted maximum achievable control technology standards, emissions trading shall be allowed without permit revision pursuant to 15A NCAC 2Q .0523(c).

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

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

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

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

Excess Emissions

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

Permit Deviations

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

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

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

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

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

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

1. An emergency means any situation arising from sudden and reasonably unforeseeable events beyond the control of the facility, including acts of God, which situation requires immediate corrective action to restore normal operation, and that causes the facility to exceed a technology-based emission limitation under the permit, due to unavoidable increases in emissions attributable to the emergency. An emergency shall not include noncompliance to the extent caused by

improperly designed equipment, lack of preventive maintenance, careless or improper operation, or operator error.

2. An emergency constitutes an affirmative defense to an action brought for noncompliance with such technology-based emission limitations if the conditions specified in 3. below are met.
3. The affirmative defense of emergency shall be demonstrated through properly signed contemporaneous operating logs or other relevant evidence that include information as follows:
 - a. an emergency occurred and the Permittee can identify the cause(s) of the emergency;
 - b. the permitted facility was at the time being properly operated;
 - c. during the period of the emergency the Permittee took all reasonable steps to minimize levels of emissions that exceeded the standards or other requirements in the permit; and
 - d. the Permittee submitted notice of the emergency to the DAQ within two working days of the time when emission limitations were exceeded due to the emergency. This notice must contain a description of the emergency, steps taken to mitigate emissions, and corrective actions taken.
4. In any enforcement proceeding, the Permittee seeking to establish the occurrence of an emergency has the burden of proof.
5. This provision is in addition to any emergency or upset provision contained in any applicable requirement specified elsewhere herein.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

1. Upon presentation of credentials and other documents as may be required by law, the Permittee shall allow the DAQ, or an authorized representative, to perform the following:
 - a. enter the Permittee's premises where the permitted facility is located or emissions-related activity is conducted, or where records are kept under the conditions of the permit;
 - b. have access to and copy, at reasonable times, any records that are required to be kept under the conditions of the

permit;

- c. inspect at reasonable times and using reasonable safety practices any source, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit; and
- d. sample or monitor substances or parameters, using reasonable safety practices, for the purpose of assuring compliance with the permit or applicable requirements at reasonable times.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

If emissions testing is required by this permit or the DAQ or if the Permittee submits emissions testing to the DAQ in support of a permit application or to demonstrate compliance, the Permittee shall perform such testing in accordance with 15A NCAC 2D .2600 and follow the procedures outlined below:

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 description of the training and air testing experience of the person directing the test;
 - b. a certification of the test results by sampling team leader and facility representative;
 - c. 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);
 - d. 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;
 - e. all field, analytical, and calibration data necessary to verify that the testing was performed as specified in the applicable test methods;
 - f. example calculations for at least one test run using equations in the applicable test methods and all test results including intermediate parameter calculations; and
 - g. 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.

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

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

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

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

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

As required by 15A NCAC 2D .0540 "Particulates from Fugitive Dust Emission Sources," the Permittee shall not cause or allow fugitive dust emissions to cause or contribute to substantive complaints or excess visible emissions beyond the property boundary. If substantive complaints or excessive fugitive dust emissions from the facility are observed beyond the property boundaries for six minutes in any one hour (using Reference Method 22 in 40 CFR Part 60, Appendix A), the owner or operator may be required to submit a fugitive dust plan as described in 2D .0540(f).

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

- NN. 1. For modifications made pursuant to 15A NCAC 2Q .0501(c)(2), the Permittee shall file a Title V Air Quality Permit Application for the air emission source(s) and associated air pollution control device(s) on or before 12 months after commencing operation.
2. For modifications made pursuant to 15A NCAC 2Q .0501(d)(2), the Permittee shall not begin operation of the air emission source(s) and associated air pollution control device(s) until a Title V Air Quality Permit Application is filed and a construction and operation permit following the procedures of Section .0500 (except for Rule .0504 of this Section) is obtained.
 3. For modifications made pursuant to 502(b)(10), in accordance with 15A NCAC 2Q .0523(a)(1)(C), the Permittee shall notify the Director and EPA (EPA - Air Planning Branch, 61 Forsyth St., Atlanta, GA 30303) in writing at least seven days before the change is made. The written notification shall include:
 - a. a description of the change at the facility;
 - b. the date on which the change will occur;
 - c. any change in emissions; and
 - d. any permit term or condition that is no longer applicable as a result of the change.

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

ATTACHMENT

List of Acronyms

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