

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



Division of Air Quality

AIR QUALITY PERMIT

Permit No.	Replaces Permit No.	Effective Date	Expiration Date
07323T16	07323T15	XXXX, 2008	June 30, 2012

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: Fortron Industries, LLC
Facility ID: 6500303

Facility Site Location: 4600 Hwy 421 North
City, County, State, Zip: Wilmington, New Hanover County, North Carolina 28401

Mailing Address: P. O. Box 327
City, State, Zip: Wilmington, North Carolina, 28402

Application Number: 6500303.06C
Complete Application Date: October 2, 2006

Primary SIC Code: 2821
Division of Air Quality, Wilming Regional Office
Regional Office Address: 127 Cardinal Drive
Wilmington, North Carolina 28405-3845

Permit issued this the **XX day of XXXXX, 2008**

---Draft--

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

Table Of Contents

PART I

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

SECTION 2: SPECIFIC LIMITATIONS AND CONDITIONS

2.1- Emission Source Specific Limitations and Conditions
(Including specific requirements, testing, monitoring, recordkeeping, and
reporting requirements)

2.2- Multiple Emission Source(s) Specific Limitations and Conditions
(Including specific requirements, testing, monitoring, recordkeeping, and
reporting requirements)

SECTION 3: GENERAL PERMIT CONDITIONS

ATTACHMENT

List of Acronyms

PART II

This permit does not include a Part II.

PART I

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

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

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

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

Emission Source ID	Emission Source Description	Control Device ID No.	Control Device Description
FU-081R1 NSPS	No. 2 fuel oil-fired hot oil furnace (44.0 million Btu/hr heat input)	None	None
		FU-751R1	One No. 2 fuel oil-fired thermal oxidizer (11.0 million Btu/hr heat input) installed on:
		TW-728	One sulfur scrubber installed on:
		HE-721, HE-722, HE-2721	Three chilled condensers installed on:
		VS-721 and VS-2721	Two continuous vent systems and
		VS-722	One cyclic vent system on:
MA-411-A	#1 salt decanter A		
MA-411-B	#1 salt decanter B		
MA-411-C	#1 salt decanter C		
MA-421	#2 salt decanter		
MA-311-1	#1 product sifter		
MA-321-1	#2 product sifter		
DR-431	Salt dryer		
TA-502	Recovered solvent service tank		
VE-503	Maintenance/shutdown equipment drain collection		
VE-311	#1 acetone reslurry tank		
VE-321	#2 acetone reslurry tank		
VE-511	#1 acetone reflux drum installed on #1 acetone tower (TW-511)		
VE-521	Reflux drum installed on #2 acetone tower (TW-521)		
VE-561	Reflux drum installed on #3 acetone tower (TW-561)		
VE-401	#1 salt decanter feed tank		
VE-411	#2 salt decanter feed tank		
VE-421	Crude acetone receiver		
VE-413	Release chamber from MA-411-A		
VE-414	Release chamber from MA-411-B		

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Table contains a summary of all permitted emission sources and associated air pollution control devices and appurtenances: (cont)

Emission Source ID	Emission Source Description	Control Device ID No.	Control Device Description
		FU-751R1	One No. 2 fuel oil-fired thermal oxidizer (11.0 million Btu/hr heat input) installed on:
		TW-728	One sulfur scrubber installed on:
		HE-721, HE-722, HE-2721	Three chilled condensers installed on:
		VS-721 and VS-2721	Two continuous vent systems and
		VS-722	One cyclic vent system on:
VE-415	Release chamber from MA-411-C		
VE-423	Release chamber from MA-421		
VE-431	Salt dissolving tank		
VE-2431	Salt dissolving tank		
MA-311R1-2	#1 product sifter		
MA-321R1-2	#2 product sifter		
VE-571	Tower feed tank installed on one para dichlorobenzene recycle tank (1,190 gallons capacity, MS-571) and one packed tower (TW-571) with integral kettle (HE-571)		
FU-1	Waste pDCB loading area		
VE-572	Reflux drum		
VE-231	Wet polymer storage tank A		
VE-241	Wet polymer storage tank B		
VE-331	Polymer wash tank A		
VE-341	Polymer wash tank B		
VE-301	Wet polymer hopper		
TA-302	#1 recovered acetone tank		
TA-303	#2 recovered acetone tank		
TA-304	#1 recovered water tank		
TA-305	#2 recovered water tank		
TA-306	#3 recovered water tank		
TA-307	#4 recovered water tank		
TA-501	Recovered water service tank		
TA-711	Acetone wastewater tank		
TA-141	Acetone storage tank (51,822 gallon capacity)		
MA-301	Acetone decanter		
VE-303	Release chamber from MA-301		
VE-581	Acetone flush surge drum		
TA-263	Liquid ring separator installed on polymerization cooling vessel (VE-261) with one condenser (HE-261)		

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Table contains a summary of all permitted emission sources and associated air pollution control devices and appurtenances: (cont)

Emission Source ID	Emission Source Description	Control Device ID No.	Control Device Description
		FU-751R1	One No. 2 fuel oil-fired thermal oxidizer (11.0 million Btu/hr heat input) installed on:
		TW-728	One sulfur scrubber installed on:
		HE-721, HE-722, HE-2721	Three chilled condensers installed on:
		VS-721 and VS-2721	Two continuous vent systems and
		VS-722	One cyclic vent system on:
VE-2521	Reflux drum installed on #4 acetone tower (TW-2521)		
VE-2511	Reflux drum installed on #5 acetone tower (TW-2511)		
VE-2502	Recovered solvent service tank		
MA-2311-1	Product sifter		
MA-2311-2	Product sifter		
MA-2321-1	Product sifter		
MA-2321-2	Product sifter		
DR-2431	Salt dryer		
VE-2311	Acetone reslurry tank		
VE-2321	Acetone reslurry tank		
VE-2503	Maintenance shutdown equipment drain collection		
VE-2401	Salt decanter feed tank		
VE-2411	Salt decanter feed tank		
VE-2413	Release chamber from MA-2411A		
VE-2414	Release chamber from MA-2411B		
VE-2423	Release chamber from MA-2421		
VE-2571	Tower feed tank installed on one para dichlorobenzene recycle tank (1,190 gallon capacity, MS-571) and packed tower (TW-571) with integral kettle (HE-571)		
VE-2396	CW conveyor slurry vessel		
VE-2390	CW vapor release chamber		
VE-2395	CW column #1 recovered solvent vessel		
MA-2390	CW column #1		
MA-2392	CW column #2		
MA-2394	CW column #3		
MA-2391	CW screw conveyor		
VE-2397	CW column #2 recovered water vessel		
VE-2421	Crude acetone receiver		

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Table contains a summary of all permitted emission sources and associated air pollution control devices and appurtenances: (cont)

Emission Source ID	Emission Source Description	Control Device ID No.	Control Device Description
		FU-751R1	One No. 2 fuel oil-fired thermal oxidizer (11.0 million Btu/hr heat input) installed on:
		TW-728	One sulfur scrubber (50 gallons per minute circulation rate) installed on:
		HE-721, HE-722, HE-2721	Three chilled condensers installed on:
		VS-721 and VS-2721	Two continuous vent systems and
		VS-722	One cyclic vent system on:
VE-281	Reactor condenser flash separator installed on one condenser (HE-271) installed on reactors (RE-211, RE-221, and RE-222)		
VE-2281	Reactor condenser flash separator installed on one condenser and one reactor (RE-2211)		
VE-2231	Wet polymerization storage tank C		
TA-2263	Liquid ring separator installed on polymerization cooling vessel (VE-2261) with one condenser (HE-2261)		
NaSH Skid consisting of:			
TW-713-1 and 2	Two NasSH recovery towers installed on: Two H ₂ S absorber/internal process recycle units (VE-203 and VE-2203) installed on two reactor reflux drums (VE-201R1 and VE-2201), two salt neutralizing vessels (VE-731 and VE-2731), and two NaSH recovery bottom tanks (1,250 gallon capacity, TA-713-1 and 2)	FU-751R1	One No. 2 fuel oil-fired thermal oxidizer (11.0 million Btu/hr heat input) installed on:
	NaSH storage tank (TA-121)	VS-713	One contaminated air vent system installed on:
	NaSH storage tank (TA-122)		
	Byproduct NaSH tank (TA-718)		
	Sour brine tank (VE-733)		

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Table contains a summary of all permitted emission sources and associated air pollution control devices and appurtenances: (cont)

Emission Source ID	Emission Source Description	Control Device ID No.	Control Device Description
		FU-751R1	One No. 2 fuel oil-fired thermal oxidizer (11.0 million Btu/hr heat input) installed on:
		VS-713	One contaminated air vent system installed on:
VE-531	Reflux drum installed on one NMP dehydration tower (TW-531)		
TA-111	NMP storage tank (51,822 gallon capacity)		
TA-2111	NMP storage tank		
VE-553	#2 NMP recovery drum		
VE-542	NMP vapor-liquid separation drum venting from NMP recovery tower reflux drum (VE-541) installed on: NMP dehydrator tower (TW-541) and #1 NMP recovery drum (VE-552) installed on NMP evaporator (VE-551) and one condensor (HE-551)		
HE-552	NMP condenser		
TW-711	Acetone stripper/tower		
VE-2553	NMP recovery drum		
VE-2542	NMP vapor liquid separation drum venting from NMP recovery tower reflux drum (VE-2541) installed on NMP dehydration tower (TW-2541) and NMP recovery drum (VE-2552) installed on NMP evaporator (VE-2551) and condensor (HE-2551)		
HE-2552	NMP condenser		
VE-2531	Reflux drum installed on one NMP dehydration tower (TW-2531)		
		FU-751R1	One No. 2 fuel oil-fired thermal oxidizer (11.0 million Btu/hr heat input) installed on:
VE-081	Therminol expansion tank		
VE-082	Therminol expansion tank		
VE-2081	Therminol expansion tank		
TW-372	Polymer dryer gas scrubber installed on one cyclone (MS-371R-1) installed on the #1 polymer dryer (DR-371)		
TW-2372	Polymer dryer gas scrubber installed on cyclone (MS-2371) installed on the #2 polymer dryer (DR-2371)		

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Table contains a summary of all permitted emission sources and associated air pollution control devices and appurtenances: (cont)

Emission Source ID	Emission Source Description	Control Device ID No.	Control Device Description
		FU-751R1	One No. 2 fuel oil-fired thermal oxidizer (11.0 million Btu/hr heat input) installed on:
		MS-603-1 MS-603-2	Two bagfilters (44 square feet of surface area each) installed on:
TA-601	Final PPS product silo (37,016 gallon capacity)		
TA-602	Final PPS product silo (8,680 gallon capacity)		
		FU-751R1	One No. 2 fuel oil-fired thermal oxidizer (11.0 million Btu/hr heat input) installed on:
		MS-2603-1 MS-2603-2	Two bagfilters (318 square feet of surface area each) installed on:
TA-2601	Final PPS product silo		
TA-2602	Final PPS product silo		
		MS-605	One bagfilter (115 square feet of surface area) installed on:
MA-601	PPS product bagger		
MA-602	PPS product bagger		
MS-631	Portable bag dumper		
MS-632	Supersack dumper		
TA-603	Product surge hopper		
TA-161	Hydrochloric acid (HCL) storage tank (7,615 gallon capacity)	TW-151	One scrubber (5.0 gallons per minute circulation rate)
TA-131 MACT	Para dichlorobenzene storage tank (34,000 gallon capacity)	None	None
TA-132 MACT	Para dichlorobenzene storage tank (47,000 gallon capacity)	None	None
MS-726	Emergency use diesel-fired generator (1,100 kW rated capacity, 1475.1 hp) used primarily to supply reactor power to reactor mixing, circulation, and cooling equipment	None	None
MS-2726 NSPS, MACT	Emergency use diesel-fired generator (1,350 kW rated capacity, 1810.4 hp) used primarily to supply reactor power to reactor mixing, circulation, and cooling equipment	None	None

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SECTION 2 - SPECIFIC LIMITATIONS AND CONDITIONS

2.1- Emission Source(s) and Control Device(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. No. 2 fuel oil-fired hot oil furnace (44.0 million Btu per hour heat input, FU-081R1, NSPS)

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

Regulated Pollutant	Limits/Standards	Applicable Regulation
Particulate matter	0.41 pounds per million Btu heat input	15A NCAC 2D .0503
Sulfur dioxide	0.5 percent by weight sulfur content by weight	15A NCAC 2D .0524 40 CFR Part 60, Subpart Dc
Visible emissions	20 percent opacity (6-minute average) except for one 6-minute period per hour of not more than 27 percent	15A NCAC 2D .0524 40 CFR Part 60, Subpart Dc

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 hot oil furnace FU-081R1 into the atmosphere shall not exceed **0.41 pounds per million Btu heat input**. [15A NCAC 2D .0503(a)]

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

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

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

- c. The Permittee shall record and maintain records of the amounts of No. 2 fuel oil burned during each month. All records required under this section shall be maintained by the owner or operator of an affected source for a period of two years following the date of such record.

2. 15A NCAC 2D .0524: NSPS 40 CFR PART 60 SUBPART Dc - Sulfur Dioxide Emissions

- a. The Permittee shall comply with all applicable provisions, including the notification, testing, reporting, recordkeeping, and monitoring requirements contained in Environmental Management Commission Standard 15A NCAC 2D .0524 "New Source Performance Standards (NSPS) as promulgated in 40 CFR Part 60 Subpart Dc, including Subpart A "General Provisions." [15A NCAC 2D .0524]

Emission Limitations [15A NCAC 2D .0524]

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

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

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

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

- d. In addition to any other recordkeeping required by 40 CFR § 60.48c or recordkeeping requirements of the EPA, the Permittee shall record and maintain records of the amounts of fuel burned during **each month**. All records required under this section shall be maintained by the owner or operator of an affected source for a period of two years following the date of such record.

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

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

3. 15A NCAC 2D .0524: NSPS 40 CFR PART 60 SUBPART Dc - Visible Emissions

- a. Visible emissions from hot oil furnace (FU-081R1) shall not be more than **20 percent opacity** when averaged over a six-minute period, except for one six-minute period per hour of not more than **27 percent opacity**.

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

- b. If emissions testing is required, the testing shall be performed in accordance with 15A NCAC 2D .0501(c)(8) and General Condition JJ. If the results of this test are above the limit given in Section 2.1 A. 3. a. above, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0524.

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

- c. No monitoring, recordkeeping, or reporting for visible emissions is required when firing No. 2 fuel oil in the hot oil furnace.

B. Polyphenylene Sulfide (PPS) Production and associated control devices

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

Regulated Pollutant	Limits/Standards	Applicable Regulation
Particulate emissions	$E = 4.10 \times P^{0.67}$ for $P \leq 30$ tons per hour $E = 55 \times (P)^{0.11} - 40$ for $P > 30$ tons per hour Where E = allowable emission rate in pounds per hour P = process weight in tons per hour Liquid and gaseous fuels and combustion air are not considered as part of the process weight.	15A NCAC 2D .0515
Sulfur dioxide emissions	2.3 pounds per million Btu per hour heat input (for thermal oxidizer, 11 million Btu heat input per hour, FU-751R1)	15A NCAC 2D .0516
Visible emissions	20 percent opacity	15A NCAC 2D .0521
Volatile organic compounds	Work practice standards	15A NCAC 2D .0958
Air toxic emissions	Modeled emission rates	15A NCAC 2D .1100
Odorous emissions	Suitable control measures See Multiple Emissions Section 2.2 C	15A NCAC 2D .1806
Hazardous air pollutants	Work practice and operational standards See Multiple Emissions Section 2.2 B	15A NCAC 2D .1111 40 CFR Part 63, Subpart FFFF

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

- a. Emissions of particulate matter from the product silos, product baggers, dumpers, and hopper shall not exceed an allowable emission rate as calculated by the following equation: [15A NCAC 2D .0515(a)]

$$E = 4.10 \times P^{0.67} \quad \text{for } P \leq 30 \text{ tons per hour}$$
$$E = 55 \times (P)^{0.11} - 40 \quad \text{for } P > 30 \text{ tons per hour}$$

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

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

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

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

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

- c. Particulate matter emissions from the product silos, product baggers, dumpers, and hopper shall be controlled by bagfilters (MS-603-1, MS-603-2, MS-2603-1, MS-2603-2, MS-605). 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 unit 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 bagfilters 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 bagfilters; and
- iv. any variance from manufacturer's recommendations, if any, and corrections made.

The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0515 if these records are not maintained.

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

- e. The Permittee shall submit the results of any maintenance performed on the bagfilters within 30 days of a written request by the DAQ.
- f. The Permittee shall submit a summary report of monitoring and recordkeeping activities 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 thermal oxidizer (FU-751R1) shall not exceed **2.3 pounds per million Btu heat input**. Sulfur dioxide formed by the combustion of sulfur in fuels, wastes, ores, and other substances shall be included when determining compliance with this standard. [15A NCAC 2D .0516]

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

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

Monitoring/Recordkeeping [15A NCAC 2Q .0508(f) and 15A NCAC 2D .0501(c)(4)(A)]

- c. No monitoring/recordkeeping is required for sulfur dioxide emissions from No. 2 fuel oil firing in Fu-751R1

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

- a. Visible emissions from the thermal oxidizer (FU-751R1) shall not be more than **20 percent opacity** when averaged over a six-minute period. However, six-minute averaging periods may exceed 20 percent not more than once in any hour and not more than four times in any 24-hour period. In no event shall the six-minute average exceed 87 percent opacity. [15A NCAC 2D .0521 (d)]

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

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

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

- c. To assure compliance, **once a month** the Permittee shall observe the emission point of the thermal oxidizer (**FU-751R1**) for any visible emissions above normal. The monthly observation must be made for each month of the calendar year period to ensure compliance with this requirement. The Permittee shall establish Anormal \cong for the source in the first 30 days following the effective date of the permit. If visible emissions from this source are observed to be above normal, the Permittee shall either:
- i. take appropriate action to correct the above-normal emissions as soon as practicable and within the monitoring period and record the action taken as provided in the recordkeeping requirements below, or
 - ii. demonstrate that the percent opacity from the emission points of the emission source in accordance with 15A NCAC 2D .0501(c)(8) (Method 9) for 12 minutes is below the limit given in Section 2.1 B. 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 .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:**

- i. 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,
- ii. clean up spills of volatile organic compounds as soon as possible following proper safety procedures,
- iii. store wipe rags containing volatile organic compounds in closed containers,
- iv. not clean sponges, fabric, wood, paper products, and other absorbent materials with volatile organic compounds,
- v. 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,
- vi. 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:

- i. flush parts in the freeboard area,
- ii. take precautions to reduce the pooling of solvent on and in the parts,
- iii. 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,
- iv. not fill cleaning machines above the fill line,
- v. not agitate solvent to the point of causing splashing. [15A NCAC 2D .0958(d)]

Monitoring

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

Recordkeeping

- d. The results of the inspections shall be maintained in a logbook (written or electronic format) on-site and made available to an authorized representative upon request. The logbook shall record the following:
 - i. the date and time of each inspection; and
 - ii. the results of each inspection noting whether or not noncompliant conditions were observed.If the required records are not maintained the permittee shall be deemed to be in noncompliance with 15A NCAC 2D .0958.

Reporting

- e. The Permittee shall submit a summary report of the observations 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.

C. Emergency use diesel-fired generators

- MS-726 (1,100 kW rated capacity, 1475.1 hp)
- MS-2726 (1,350 kW rated capacity, 1810.4 hp, NSPS, MACT)

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 (For MS-726 only)	15A NCAC 2D .0516
	Use diesel fuel with a sulfur content of less than 500 ppm (For MS-2726 only)	15A NCAC 2D .0524 40 CFR Part 60, Subpart III
NMHC + NO _x , HC, NO _x , CO, PM	Purchase a certified engine from the manufacturer (For MS-2726 only)	15A NCAC 2D .0524 40 CFR Part 60, Subpart III
Visible emissions	20 percent opacity each	15A NCAC 2D .0521
Hazardous air pollutants	Notification requirements and applicability determination in accordance with 40 CFR 63.10(b)(3) (For MS-2726 only)	15A NCAC 2D .1111 40 CFR Part 63, Subpart ZZZZ

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

- a. Emissions of sulfur dioxide from emergency generator (MS-726) shall not exceed **2.3 pounds per million Btu heat input**. Sulfur dioxide formed by the combustion of sulfur in fuels, wastes, ores, and other substances shall be included when determining compliance with this standard. [15A NCAC 2D .0516]

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

- b. If emissions testing is required, the testing shall be performed in accordance with 15A NCAC 2D .0501(c)(4) and General Condition JJ found in Section 3. If the results of this test are above the limit given in Section 2.1 C. 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 firing diesel fuel in emergency generator (MS-726).

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

- a. Visible emissions from the emergency generators (MS-726 and MS-2726) shall not be more than **20 percent opacity** each when averaged over a six-minute period. However, six-minute averaging periods may exceed 20 percent not more than once in any hour and not more than four times in any 24-hour period. In no event shall the six-minute average exceed 87 percent opacity. [15A NCAC 2D .0521 (d)]

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

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

Monitoring/Recordkeeping/Reporting

- c. No monitoring, recordkeeping, or reporting is required for visible emissions from the firing of diesel fuel in emergency generators (MS-726 and 2726).

3. 15A NCAC 2D .0524: NSPS, STANDARDS OF PERFORMANCE FOR STATIONARY COMPRESSION IGNITION INTERNAL COMBUSTION ENGINES [40 CFR 60 SUBPART III], (For units manufactured after April 1, 2006)

• **MS- 2726 (diesel-fired emergency generator, 1,350 kW, 1810.4 hp)**

- a. The Permittee shall comply with all applicable provisions, including the requirements for emission standards, notification, testing, reporting, record keeping, and monitoring, contained in Environmental Management Commission Standard 15A NCAC 2D .0524 "New Source Performance Standards (NSPS)" as promulgated in 40 CFR Part 60 Subpart III, including Subpart A "General Provisions." [15A NCAC 2D .0524]

Emission Standards

- b. The Permittee shall comply with the following emission standards for compression ignition (CI) engines for model year 2007 and later.

Purchase an engine certified to the emission standards in §60.4205(b) for the same model year and maximum engine power. The engine must be installed and configured according to the manufacturer's specifications.

Exhaust emission standards:

VOC and NOx (combined): 6.4 g/kW-hr

CO: 3.5 g/kW-hr

PM: 0.20 g/kW-hr

[§60.4205(b), §60.4211(c), and §89.112(a)]

- c. The Permittee shall use diesel fuel in the CI engine of each emergency generator with a sulfur content of less than 500 ppm beginning October 1, 2007.

The Permittee shall use diesel fuel in the CI engine of each emergency generator with a sulfur content of less than 15 ppm beginning October 1, 2010. [§60.4207, and §80.510(a) and (b)]

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

- d. If emissions testing is required, the testing shall be performed in accordance with General Condition JJ. If the results of this test are above the limit given above in this Section, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0524.

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

- e. Owners and operators of CI internal combustion engines (ICE) must operate and maintain stationary CI ICE that achieve the emissions standards as required in §§60.4204 and 60.4205 according to the manufacturer's written instructions or procedures developed by the owner or operator that are approved by the engine manufacturer, over the entire life of the engine. The Permittee may only change engine settings that are permitted by the manufacturer. The Permittee shall also meet the requirements of 40 CFR 89, 94 and/or 1068 as applicable. The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0524, if the requirements in this Section are not met. [§60.4206 and §60.4211(a)]
- f. The CI emergency generator shall be equipped with a non-resettable hour meter prior to startup. If the CI engine of each emergency generator is not equipped with a non-resettable hour meter prior to startup, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0524. [§60.4209(a)]

- g. The Permittee may operate the CI emergency generator for maintenance checks and readiness testing for up to 100 hours per year provided that the tests are recommended by Federal, State, or local government, the manufacturer, the vendor, or the insurance company associated with the engine. Operation during an actual emergency shall not be subject to a limit on hours. The Permittee may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the Permittee maintains records indicating that Federal, State, or local standards require maintenance and testing of emergency ICE beyond 100 hours per year. Because the Permittee is required to comply with emission standards under §60.4205 for the CI engine in the emergency generator, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0524, if the requirements in this Section are not met. [§60.4211(e)]

4. 15A NCAC 2D .1111, 40 CFR Part 63, Subpart ZZZZ “National Emission Standards For Hazardous Air Pollutants For Stationary Reciprocating Internal Combustion Engines

- **MS-2726 (diesel-fired emergency generator, 1350 kW rated capacity, 1810.4 hp, NSPS, MACT)**

General Provisions [40 CFR §63.6665]:

- a. The Permittee shall comply with the requirements of 40 CFR part 63 Subpart A “General Provisions,” according to the applicability of Subpart A to such sources, as identified in Table No. 8 in Subpart ZZZZ, “Applicability Of General Provisions to Subpart ZZZZ”.

Compliance/Notification Procedures [40 CFR §63.6645]

- b. Stationary RICE that are **emergency generators** are subject to limited requirements of Subpart ZZZZ and do not have to meet the requirements of Subpart ZZZZ and of subpart A of this part, except for the initial notification requirements. Notification should include the following information:

The owner or operator of an affected source that has an initial startup on or after August 16, 2004 shall submit an Initial Notification to the Administrator in writing that the source is subject to the relevant standard. The notification, which shall be submitted not later than 120 calendar days after startup of the emergency generator and shall provide the following [40 CFR §63.9 (b)(2)]:

- (A) The name and address of the owner or operator;
- (B) The address (i.e., physical location) of the affected source;
- (C) An identification of the relevant standard, or other requirement, that is the basis of the notification and the source’s compliance date;
- (D) A brief description of the nature, size, design, and method of operation of the source and an identification of the types of emission points within the affected source subject to the relevant standard and types of hazardous air pollutants emitted;
- (E) A statement of whether the affected sources is a major source or an area source.
- (F) A statement that emergency generators have no additional requirements and explain the basis for the exclusion.

Recordkeeping Requirement For Applicability Determination [40 CFR §63.10(b)(3)]

- c. The applicability determination for exclusion of this emergency generators from the requirements of 40 CFR Part 63, Subpart ZZZZ and Subpart A of this part, shall be maintained on site for a period of 5 years after the determination, or until the source changes its operations to become an affected source, whichever comes first. The analyses, or other information, that demonstrates the exemption from the requirements of Subpart ZZZZ and Part A of this Subpart, shall be signed by the person making the determination.

Reporting Requirement:

- (A) The Permittee shall comply with all applicable provisions, including Notification Requirements per 40 CFR §63.9.
- (B) The Permittee shall submit the initial notification to the following per 40 CFR §63.9(a)(4)(ii) and 15A NCAC 2Q .0508(f):
 - (1) Division of Air Quality, Permitting Section
 - (2) Division of Air Quality, Regional Office Supervisor, and
 - (3) EPA-Region IV

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

- e. Starting with emergency generator model year 2011, if the emergency engine does not meet the standards applicable to non-emergency engines in the applicable model year, the Permittee shall keep records of the operation of the engine in emergency and non-emergency service that are recorded through the nonresettable hour meter. The Permittee shall record the time of operation of the engine and the reason the engine was in operation during that time. The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0524, if these records are not maintained. [§60.4214(b)]

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

- f. No initial notification under §60.7 is required for the emergency use CI engines. [§60.4214(b)]
- g. 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.

2.2- MULTIPLE EMISSION SOURCES SPECIFIC LIMITATIONS AND CONDITIONS

A. TOXIC AIR POLLUTANT EMISSIONS LIMITATION AND REPORTING REQUIREMENT -

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

Emissions Sources	Toxic Air Pollutant	Emission Limits
Thermal Oxidizer (ID No. FU-751R1)	Benzene	172 pounds per year
pDCB Storage (ID No. TA-131)	Benzene	40.3 pounds per year
Waste Water Treatment	Benzene	198 pounds per year
Fugitives	Benzene	208 pounds per year
HCL Storage Tank + Fugitives (ID No. TA-161)	Hydrogen chloride	1.93 pounds per hour
Thermal Oxidizer (ID No. FU-751R1)	Hydrogen chloride	43.6 pounds per hour
TODIVERT (diverting the thermal oxidizer)	Hydrogen sulfide	7.195 pounds per hour
FU03S (fugitives from the storage tank area)	Hydrogen sulfide	4.46 pounds per hour
FU03T (fugitives from tank truck loading/unloading)	Hydrogen sulfide	3.00 pounds per hour
Thermal Oxidizer (ID No. FU-751R1)	PDCB	3.62 pounds per hour
FU03S (fugitives from the storage tank area)	PDCB	433.66 pounds per hour
FU03T (fugitives from tank truck loading/unloading)	PDCB	274.93 pounds per hour
Waste Water Treatment	PDCB	0.825 pounds per hour
WASHAREA	PDCB	0.1698 pounds per hour
Waste Water Treatment	Phenol	0.225 pounds per hour
NMPSTORE	Phenol	8.421 pounds per hour
NMPCOOL	Phenol	4.74 pounds per hour

1. Recordkeeping Requirements - The following recordkeeping requirements apply:
 - a. Inspection and Maintenance Requirements - To ensure that optimum control efficiency is maintained, the Permittee shall establish an inspection and maintenance schedule/checklist for the thermal oxidizer based on the manufacturers recommendations. Records of all maintenance activities shall be recorded in a logbook. The logbook (in written or electronic format) shall be kept on-site and made available to DAQ personnel upon request. This requirement may be fulfilled in accordance with compliance of Section 2.2 A. 3. a.
 - b. Monitoring Requirements - The thermal oxidizer shall be equipped with a continuous temperature measuring and recording device. The combustion chamber temperature **15 minute block average** shall be maintained at a minimum of 1650 degrees F. This requirement may be fulfilled in accordance with compliance of Section 2.2 A. 3. b.

2. Reporting Requirements:
 - a. Any excursions of the thermal oxidizer combustion chamber temperature **15 minute block average** (< 1,650 degrees F), shall be recorded in a logbook (written or electronic form) and maintained on site. The excursion record(s) shall include the duration of the excursion and the corrective action taken. The logbook shall also be made available for DAQ inspection upon request. This requirement may be fulfilled in accordance with compliance of Section 2.2 A. 3. c.
 - b. TESTING REQUIREMENT - Under the provisions of North Carolina General Statute 143-215.108, the Permittee shall demonstrate compliance with the emission limit(s) for the thermal oxidizer given in the Multiple Emissions Section, permit condition 2.2 A. by testing the thermal oxidizer for the specified pollutant(s) as follows. The claimed destruction efficiency of 99.0 % shall also be demonstrated and documented.

Pollutant	Emission Limit	Test Location
Benzene	172 lbs/yr	FU-751R1 outlet
HCL	43.6 lbs/hr	FU-751R1 outlet
H ₂ S	Report any amount	FU-751R1 outlet
Paradichlorobenzene	3.62 pounds per hour	FU-751R1 outlet
Mesityl Oxide	Report any amount	FU-751R1 outlet
4-mercapto-4-methyl-2-pentanone	Report any amount	FU-751R1 outlet
Total VOC	99% destruction efficiency	FU-751R1 outlet & inlet

- i. Emissions testing shall be performed within 90 days of the simultaneous operation (charging) of the three existing reactors (ID Nos. RE-211, RE-221 and RE-222) and the new reactor (ID No. RE-2211) involved in permit revision 7323R12 (permit application No. 6500303.06D). Written notification of the date of simultaneous operation of the four reactors shall be provided to the regional office within 10 calendar days of the simultaneous operation date.

- ii. At least 45 days prior to performing any required emissions testing, the Permittee shall submit one testing protocol (original) to the Regional Supervisor, DAQ, and one copy to the Raleigh Stationary Source Compliance Branch for review and approval. All testing protocols shall be approved by the DAQ prior to performing such tests.
 - iii. To afford the Regional Supervisor, DAQ, the opportunity to have an observer present, the Permittee shall provide the Regional Office, in WRITING, at least 15 days notice of any required performance test(s).
 - iv. The test results shall be submitted to the Regional Supervisor, DAQ, in accordance with the approved procedures of the Environmental Management Commission within 45 days upon completion of the test.
 - v. This permit may be revoked, with proper notice to the Permittee, or enforcement procedures initiated, if the results of the test(s) indicate that the facility does not meet applicable limitations.
 - vi. The source shall be responsible for ensuring, within the limits of practicality, that the equipment or process being tested is operated at or near its maximum normal production rate, or at a lesser rate if specified by the Director or his delegate.
 - vii. All associated testing costs are the responsibility of the Permittee.
3. Thermal Oxidizer Requirements
The Permittee shall follow the inspection, maintenance and monitoring requirements given below.
- a. Inspection and Maintenance Requirements - To ensure that optimum control efficiency is maintained, the Permittee shall establish an inspection and maintenance schedule/checklist for the thermal oxidizer based on the manufacturers recommendations.
 - b. Monitoring Requirements - The thermal oxidizer shall be equipped with a continuous temperature measuring and recording device. The combustion chamber temperature **15 minute block average** shall be maintained at a minimum of 1,650 degrees F.
 - c. Record Keeping Requirements - A thermal oxidizer logbook shall be kept on site and made available to DAQ personnel upon request. The results of all maintenance, inspections, and any excursions of the thermal oxidizer combustion chamber temperature **15 minute block average** (< 1,650 degrees F), shall be recorded in a logbook (written or electronic form). The excursion record(s) shall include the duration of the excursion and the corrective action taken. Also, any variance from manufacturers recommendations shall be investigated with corrections made and date of actions recorded in the logbook.
- B. 15A NCAC 2D .1111 “Maximum Achievable Control Technology, 40 CFR Part 63, Subpart FFFF**
The Permittee shall comply with all applicable provisions contained in Environmental Management Commission Standard 15A NCAC 2D .1111, “Maximum Achievable Control Technology” (MACT) as promulgated in 40 CFR Part 63, Subpart FFFF, “National Emissions Standards For Hazardous Air Pollutants for Miscellaneous Organic Chemical Manufacturing by *May 10, 2008, or as revised by this rule, for existing miscellaneous organic chemical processing units.*
- STATE-ONLY REQUIREMENT: ODOR REQUIREMENTS**
- C. 15A NCAC 2D .1806: CONTROL AND PROHIBITION OF ODOROUS EMISSIONS**
The Permittee shall not operate the facility without implementing management practices or installing and operating odor control equipment sufficient to prevent odorous emissions from the facility from causing or contributing to objectionable odors beyond the facility's boundary.

SECTION 3 - GENERAL CONDITIONS (version 2.20)

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

- A. **General Provisions** [NCGS 143-215 and 15A NCAC 2Q .0508(i)(16)]
1. Terms not otherwise defined in this permit shall have the meaning assigned to such terms as defined in 15A NCAC 2D and 2Q.
 2. The terms, conditions, requirements, limitations, and restrictions set forth in this permit are binding and enforceable pursuant to NCGS 143-215.114A and 143-215.114B, including assessment of civil and/or criminal penalties. Any unauthorized deviation from the conditions of this permit may constitute grounds for revocation and/or enforcement action by the DAQ.
 3. This permit is not a waiver of or approval of any other Department permits that may be required for other aspects of the facility which are not addressed in this permit.
 4. This permit does not relieve the Permittee from liability for harm or injury to human health or welfare, animal or plant life, or property caused by the construction or operation of this permitted facility, or from penalties therefore, nor does it allow the Permittee to cause pollution in contravention of state laws or rules, unless specifically authorized by an order from the North Carolina Environmental Management Commission.
 5. Except as identified as state-only requirements in this permit, all terms and conditions contained herein shall be enforceable by the DAQ, the EPA, and citizens of the United States as defined in the Federal Clean Air Act.
 6. Any stationary source of air pollution shall not be operated, maintained, or modified without the appropriate and valid permits issued by the DAQ, unless the source is exempted by rule. The DAQ may issue a permit only after it receives reasonable assurance that the installation will not cause air pollution in violation of any of the applicable requirements. A permitted installation may only be operated, maintained, constructed, expanded, or modified in a manner that is consistent with the terms of this permit.
- B. **Permit Availability** [15A NCAC 2Q .0507(k) and .0508(i)(9)(B)]
The Permittee shall have available at the facility a copy of this permit and shall retain for the duration of the permit term one complete copy of the application and any information submitted in support of the application package. The permit and application shall be made available to an authorized representative of Department of Environment and Natural Resources upon request.
- C. **Severability Clause** [15A NCAC 2Q .0508(i)(2)]
In the event of an administrative challenge to a final and binding permit in which a condition is held to be invalid, the provisions in this permit are severable so that all requirements contained in the permit, except those held to be invalid, shall remain valid and must be complied with.
- D. **Submissions** [15A NCAC 2Q .0507(e) and 2Q .0508(i)(16)]
Except as otherwise specified herein, two copies of all documents, reports, test data, monitoring data, notifications, request for renewal, and any other information required by this permit shall be submitted to the appropriate Regional Office. Refer to the Regional Office address on the cover page of this permit. For continuous emissions monitoring systems (CEMS) reports, continuous opacity monitoring systems (COMS) reports, quality assurance (QA)/quality control (QC) reports, acid rain CEM certification reports, and NOx budget CEM certification reports, one copy shall be sent to the appropriate Regional Office and one copy shall be sent to:
- Supervisor, Stationary Source Compliance
North Carolina Division of Air Quality
1641 Mail Service Center
Raleigh, NC 27699-1641
- E. **Duty to Comply** [15A NCAC 2Q .0508(i)(2)]
The Permittee shall comply with all terms, conditions, requirements, limitations and restrictions set forth in this permit. Noncompliance with any permit condition except conditions identified as state-only requirements constitutes a violation of the Federal Clean Air Act. Noncompliance with any permit condition is grounds for enforcement action, for permit termination, revocation and reissuance, or modification, or for denial of a permit renewal application.

F. **Circumvention** - STATE ENFORCEABLE ONLY

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

G. **Permit Modifications**

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

H. **Changes Not Requiring Permit Modifications**

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

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

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

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

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

Excess Emissions

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

Permit Deviations

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

1. Upon presentation of credentials and other documents as may be required by law, the Permittee shall allow the DAQ, or an authorized representative, to perform the following:

- a. enter the Permittee's premises where the permitted facility is located or emissions-related activity is conducted, or where records are kept under the conditions of the permit;
- b. have access to and copy, at reasonable times, any records that are required to be kept under the conditions of the permit;
- c. inspect at reasonable times and using reasonable safety practices any source, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit; and
- d. sample or monitor substances or parameters, using reasonable safety practices, for the purpose of assuring compliance with the permit or applicable requirements at reasonable times.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

FEDERALLY-ENFORCEABLE ONLY

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

- 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