



ROY COOPER
Governor

MICHAEL S. REGAN
Secretary

MICHAEL A. ABRACZINSKAS
Director

XXX, xx, 2018

Louis Lapierre
Manufacturing Director
The Goodyear Tire & Rubber Company
6650 Ramsey Street
Fayetteville, North Carolina 28311

Dear Mr. Lapierre:

SUBJECT: Air Quality Permit No. 00011T52
Facility ID: 2600050
The Goodyear Tire & Rubber Company
Fayetteville, North Carolina
Cumberland County
Fee Class: Title V
PSD Status: Major

In accordance with your completed Air Quality Permit Application for an Significant 2Q .0504 (Part II) modification of a Title V Permit received April 13, 2018 we are forwarding Air Quality Permit No. 00011T52 to The Goodyear Tire & Rubber Company, located at 6650 Ramsey Street, Fayetteville, 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.

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

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

County has triggered increment tracking under PSD for PM₁₀, SO₂, and NO_x. However, this permit modification does not consume or expand increments for any pollutants.

This Air Quality Permit shall be effective from XXX, xx, 2018 until February 28, 2020, 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 Mr. Gautam Patnaik at (919) 707-8735 or gautam.patnaik@ncdern.gov.

Sincerely yours,

William D. Willets, P.E., Chief, Permitting Section
Division of Air Quality, NCDENR

Enclosure

c: Heather Ceron, EPA Region 4
Fayetteville Regional Office
Central Files
Connie Horne (cover letter only)

ATTACHMENT to Permit No. 00011T51

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

Emission Source ID No.	Emission Source Description
IES-1	Water storage furnace/boiler (1.36 mmbtu/hr)
IES-2	Marking operation consisting of Tread and Fabric Marking, Defective Tread Marking, Fabric Marking, and Bead Marking
IES-3	White sidewall painting operation
IES-4	Six (6) bead tuber units
IES-5	Tank farms #1 through #7
IES-6	Oil scales #1 through #8
I-ESFP1	Emergency fire pump with diesel fired engine with ratings of 220 hp (subject to NSPS Subpart IIII and MACT Subpart ZZZZ)
I-ESFP2	Emergency fire pump with diesel fired engines with ratings of 220 hp (subject to MACT Subpart ZZZZ)
I-ESFP3	Emergency fire pump with diesel fired engines with ratings of 220 hp (subject to MACT Subpart ZZZZ)
I-ESFP4	Emergency fire pump with diesel fired engines with ratings of 220 hp (subject to MACT Subpart ZZZZ)
IES-8	Fork oil and transmission fluid tanks
I-BS01	Bladder Spray
I-MISC	Miscellaneous Solvents
I-TD01	Tire Mold Release Lube
IB53	Natural gas-fired inert gas generator (3.5 Btu per hour maximum heat input capacity)
ID53	Natural gas-fired inert gas generator (7.0 million Btu per hour maximum heat input 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 02D .1100 "Control of Toxic Air Pollutants" or 02Q .0711 "Emission Rates Requiring a Permit".
3. For additional information regarding the applicability of MACT or GACT see the DAQ page titled "Specific Permit Conditions Regulatory Guide." The link to this site is as follows:
<http://deq.nc.gov/about/divisions/air-quality/air-quality-permits/specific-permit-conditions-regulatory-guide>.

Summary of Changes to Permit

The following changes were made to The Goodyear Tire & Rubber Company – Fayetteville, NC, Air Permit 0011T52

Page Number	Condition Number	Change
14	Source Table	Permit 00011T51 - Removed footnote for source (FWS1) for 2Q .0501(c)(2) modification
34	2.1 D. e. ii.,	Corrected typographical error.
	2.2 A. 1., for Permit 00011T51	Removed 15A NCAC 02D .0958.
47 through 55	General Conditions	Updated



AIR QUALITY PERMIT

Permit No.	Replaces Permit No.	Effective Date	Expiration Date
00011T52	00011T51	XXX, xx, 2018	February 28, 2020

Until such time as this permit expires or is modified or revoked, the below named Permittee is permitted to construct and operate the emission source(s) and associated air pollution control device(s) specified herein, in accordance with the terms, conditions, and limitations within this permit. This permit is issued under the provisions of Article 21B of Chapter 143, General Statutes of North Carolina as amended, and Title 15A North Carolina Administrative Codes (15A NCAC), Subchapters 02D and 02Q, and other applicable Laws.

Pursuant to Title 15A NCAC, Subchapter 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: The Goodyear Tire & Rubber Company
Facility ID: 2600050

Facility Site Location: 6650 Ramsey Street
City, County, State, Zip: Fayetteville, Cumberland County, North Carolina, 28311

Mailing Address: 6650 Ramsey Street
City, State, Zip: Fayetteville, Cumberland County, North Carolina, 28311

Application Number: 2600050.18A
Complete Application Date: April 13, 2018

Primary SIC Code: 3011
Division of Air Quality, Fayetteville Regional Office
Regional Office Address: 225 Green Street, Suite 714
Fayetteville, North Carolina 28301

Permit issued this the xxst day of XXX, 2018

William D. Willets, P.E., Chief, Air Permitting Section
By Authority of the Environmental Management Commission

Table Of Contents

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(s) 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)
- 2.3- Permit Shield for Non-applicable Requirements
- 2.4- Use of Projected Actual Emissions to Avoid Applicability of PSD

SECTION 3: GENERAL PERMIT CONDITIONS

ATTACHMENT

List of Acronyms

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

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

Page #	Emission Source ID No.	Emission Source Description	Control Device ID No.	Control Device Description
Boiler House				
14	BL01 BL02 BL03 BL04 (02D .1109 Case by Case MACT, MACT Subpart DDDDD)	Four natural gas/No. 6 fuel oil/No. 2 fuel oil/recycled No. 6 fuel oil-fired boilers (77.4 million Btu per hour maximum heat input capacity, each)	NA	NA
22	TMP01 (NSPS, Subpart Dc*)	One temporary, back-up natural gas/ No. 2 fuel oil-fired boiler (maximum heat input capacity no greater than 100 million Btu per hour)	NA	NA
Carbon Transfer Systems				
Carbon Black Tower 1 consisting of:				
28	CBT1-ES-210 (MACT, Subpart XXXX)	One Carbon black tower 1 railcar bucket elevator	DC-120	One bin vent filter (300 ACFM, minimum)
28	CBT1-ES-211 through CBT1-ES-216 (MACT, Subpart XXXX)	Six Carbon Black Tower 1 storage bins	DC-121 through DC-126	Six bin vent filters (300 ACFM each, minimum)
28	CBT1-TS1 (MACT, Subpart XXXX)	Carbon Black transfer system including covered conveyor	NA	NA
28	CBT1-CBS-1 (MACT, Subpart XXXX)	One Banbury #1 surge bin	DC-140 through DC-143	Four bin vent filters (300 ACFM each, minimum)
28	CBT1-CBS-2 (MACT, Subpart XXXX)	One Banbury #2 surge bin	DC-144 through DC-147	Four bin vent filters (300 ACFM each, minimum)
28	CBT1-CBS-3 (MACT, Subpart XXXX)	One Banbury #3 surge bin	DC-148 through 151	Four bin vent filters (300 ACFM each, minimum)
28	CBT1-CBS-6A (MACT, Subpart XXXX)	One Banbury #6A surge bin	DC-152 through DC-155	Four bin vent filters (300 ACFM each, minimum)

Page #	Emission Source ID No.	Emission Source Description	Control Device ID No.	Control Device Description
Carbon Black Tower 2 consisting of:				
28	CBT2-ES-220 (MACT, Subpart XXXX)	One Carbon black tower 2 railcar bucket elevator	DC-130	One bin vent filter (300 ACFM, minimum)
28	CBT2-ES-221 through CBT2-ES-226 (MACT, Subpart XXXX)	Six Carbon Black Tower 2 storage bins	DC-131 through DC-136	Six bin vent filters (300 ACFM each, minimum)
28	CBT2-TS2 (MACT, Subpart XXXX)	Carbon Black transfer system including covered conveyor	NA	NA
28	CBT2-CBS-7 (MACT, Subpart XXXX)	One Banbury #7 surge bin	DC-156 through DC-159	Four bin vent filters (300 ACFM each, minimum)
29	CBT2-CBS-8 (MACT, Subpart XXXX)	One Banbury #8 surge bin	DC-160 through DC-164	Five bin vent filters (300 ACFM each, minimum)
Blending/Pellet Production				
29	BO02 (MACT, Subpart XXXX)	One Pellet Feed System Operation consisting of the following equipment: Four rubber pellet material feed systems for Banbury mixers 4, 5, 6, and 6A, (Nos. PFS4, PFS5, PFS6, and PFS6A, respectively)	DC-25, DC-26, DC-27, and DC-28	Four bagfilters (344 square feet of filter area each, minimum)

Page #	Emission Source ID No.	Emission Source Description	Control Device ID No.	Control Device Description
29	BB03-M9-1 (BACT; MACT, Subpart XXXX)	Banbury Mixer #3	DC-15 RTO-1 RTO-2	One bagfilter (4,515 square feet of filter area, minimum) AND/OR in series with: One natural gas-fired regenerative thermal oxidizer (10.7 million Btu per hour maximum heat input capacity, 40,000 acfm) AND/OR One natural gas-fired regenerative thermal oxidizer (15 million Btu per hour maximum heat input capacity, 50,000 acfm)
Banbury Process #4 consisting of:				
29	BB04-P9-1 (MACT, Subpart XXXX)	Banbury Mixer #4	DC-16	One bagfilter (4,515 square feet of filter area, minimum)
Banbury Process #5 consisting of:				
29	BB05-Q9-1 (MACT, Subpart XXXX)	Banbury Mixer #5	DC-17	One bagfilter (4,515 square feet of filter area, minimum)
Banbury Process #6 consisting of:				
29	BB06-R9-1 (MACT, Subpart XXXX)	Banbury Mixer #6	DC-18	One bagfilter (4,515 square feet of filter area, minimum)
Banbury Process #6A consisting of:				

Page #	Emission Source ID No.	Emission Source Description	Control Device ID No.	Control Device Description
29	BB08-CE8-1 (BACT, MACT, Subpart XXXX)	Banbury Mixer #8	DC-21 RTO-1 RTO-2	One bagfilter (3,822 square feet of filter area, minimum) AND/OR in series with: One natural gas-fired regenerative thermal oxidizer (10.7 million Btu per hour minimum heat input capacity) AND/OR One natural gas-fired regenerative thermal oxidizer (15 million Btu per hour maximum heat input capacity)
Slurry Mix Operation consisting of:				
29	K8-1 K8-2 (MACT, Subpart XXXX)	Slurry Mixers (Nos. 1 and 2)	DC-100	One bagfilter (2,032 square feet of filter area, minimum)
29	BE7-1 BE7-2 (MACT, Subpart XXXX)	Slurry Mixers (Nos. 3 and 4)	DC-21	One bagfilter (3,822 square feet of filter area, minimum)
29	PDS-2 (MACT, Subpart XXXX)	Banbury mixer Nos. 4, 5, 6, 6A, and 7 dump sinks	DC-172 and 173	Two bagfilters (4,560 square feet of filter area each, minimum)
Tuber Operations				
Rubber Extrusion Process consisting of:				
29	TL07 TL08 TL09 TL10 (MACT, Subpart XXXX)	Four non-cementing rubber extrusion lines/tubers, (Nos. 7, 8, 9, and 10)	NA	NA
33	TL03 (NSPS, Subpart BBB; MACT, Subpart XXXX)	One cementing rubber extrusion line/tuber (No. 3) consisting of one tread end cement operation (M23-2)	NA	NA

Page #	Emission Source ID No.	Emission Source Description	Control Device ID No.	Control Device Description
33	TL04 (NSPS, Subpart BBB; MACT, Subpart XXXX)	One cementing rubber extrusion line/tuber (No. 4) consisting of one tread end cement operation (P23-2)	NA	NA
33	TL05 (NSPS, Subpart BBB; MACT, Subpart XXXX)	One cementing rubber extrusion line/tuber (No. 5) consisting of one tread end cement operation (AE23-2)	NA	NA
33	TL06 (NSPS, Subpart BBB; MACT, Subpart XXXX)	One cementing rubber extrusion line/tuber (No. 6) consisting of one tread end cement operation (S23-2)	NA	NA
30	QE01 (MACT, Subpart XXXX)	One cold feed quad extruder	NA	NA
30	QE02	one 60-inch mill	NA	NA
30	QE03	one bead winder with a small cold feed extruder	NA	NA
Calendar Operations				
Fabric Calendar Process consisting of:				
29	FABR-G18 (MACT, Subpart XXXX)	One line vacuum for fabric calendar process	DC-103	One bagfilter (220 square feet of filter area, minimum)
29	FABR-G25 (MACT, Subpart XXXX)	One windup process for fabric calendar process	DC-104	One dust collector/cyclone (12 inches in diameter, minimum)
Calendar Lines and Electron Beam Process consisting of:				
29	EBP-W27 (MACT, Subpart XXXX)	One windup for wire calendar process	DC-106	One dust collector/cyclone (12 inches in diameter, minimum)
29	EBP-CAL1 (MACT, Subpart XXXX)	One four-roll calendar process No. 1 (with an electronic beam process)	NA	NA
29	CAL2 (MACT, Subpart XXXX)	One four-roll calendar processes (No. 2)	NA	NA
29	CAL4 (MACT, Subpart XXXX)	One gum roll calendar process	NA	NA
Tire Press Operations				
33	GTS-CP-001 through GTS-CP-322 (BACT; NSPS, Subpart BBB; MACT, Subpart XXXX)	Three hundred and twenty-two tire curing presses, each consisting of two curing cavities and two tire/mold release lube spray (green tire spray) operations	NA	NA

Page #	Emission Source ID No.	Emission Source Description	Control Device ID No.	Control Device Description
33	GTS-GT-S1 through GTS-GT-S7 (NSPS, Subpart BBB; MACT, Subpart XXXX)	Seven tire/mold release lube spray (green tire spray) operations booths	NA	NA
Tire Press Mold Operation consisting of:				
29	LE60 (MACT, Subpart XXXX)	One mold cleaner	DC-94	One bagfilter (500 square feet of filter area, minimum)
29	LE61 (MACT, Subpart XXXX)	One mold cleaner	DC-95	One bagfilter (500 square feet of filter area, minimum)
Grinding Operations				
White Sidewall Grinders Operation Bank #1 consisting of:				
29	Q64 (MACT, Subpart XXXX)	White Sidewall Grinders Operation Bank #1 - Sidewall Grinders (Nos. SG-101 through SG-105, SG-201 through SG-206)	DC-31	One self-induced spray scrubber (20,000 ACFM, minimum)
29	P63 (MACT, Subpart XXXX)	White Sidewall Grinders Operation Bank #1 - Sidewall Grinder (No. SG-106)	DC-31	One self-induced spray scrubber (20,000 ACFM, minimum)
30	N63 T63 (MACT, Subpart XXXX)	Two lubricant applicers	NA	NA
White Sidewall Grinders Operation Bank #2 consisting of:				
29	HE63 (MACT, Subpart XXXX)	White Sidewall Grinders Operation Bank #2 - Sidewall Grinders (Nos. SG-300 through SG-306, and FG-317)	DC-42	One self-induced spray scrubber (16,000 ACFM, minimum)
29	KE63 (MACT, Subpart XXXX)	White Sidewall Grinders Operation Bank #2 - Sidewall Grinders (Nos. SG-308 and SG-317)	DC-42	One self-induced spray scrubber (16,000 ACFM, minimum)
30	JE63 (MACT, Subpart XXXX)	Lubricant applicer	NA	NA
Force Grinder Operation Bank #1 consisting of:				
29	Q66 (MACT, Subpart XXXX)	Force Grinders (Nos. FG-101 through FG-109 and FG-201 through FG-208)	DC-48	One self-induced spray scrubber (20,000 ACFM, minimum)
Force Grinder Operation Bank #2 consisting of:				
29	WX66 (MACT, Subpart XXXX)	Force Grinders (Nos. FG-209 through FG-215 and FG-301 through FG-304)	DC-65	One self-induced spray scrubber (20,000 ACFM, minimum)
Force Grinder Operation Bank #3 consisting of:				

Page #	Emission Source ID No.	Emission Source Description	Control Device ID No.	Control Device Description
29	FE66 (MACT, Subpart XXXX)	Force Grinders (Nos. FG-305 through FG-316)	DC-77	One self-induced spray scrubber (20,000 ACFM, minimum)
Force Grinder Operation Bank #4 consisting of:				
29	ME69 (MACT, Subpart XXXX)	Force Grinders (Nos. FG-401 through FG-404)	DC-165	One rotoclone (self-induced scrubber) (5,100 ACFM, minimum)
Run-Out Grinder Operation Bank #5 consisting of:				
30	AE71 (MACT, Subpart XXXX)	Run-Out Grinders (Nos. RG-500 through RG-507)	DC-166	One rotoclone (self-induced wet scrubber) (7,500 ACFM, minimum)
Run-Out Grinder Operation Bank #6 consisting of:				
30	DE71 (MACT, Subpart XXXX)	Run-Out Grinders (Nos. RG-600 through RG-607)	DC-167	One rotoclone (self-induced wet scrubber) (7,500 ACFM, minimum)
Run-Out Grinder Operation Bank #7 consisting of:				
30	UE70 (MACT, Subpart XXXX)	Run-Out Grinders (Nos. RG-700 and RG-704)	DC-168	One rotoclone (self-induced wet scrubber) (7,500 ACFM)
Force Grinder Operation Bank #8 consisting of:				
30	RG800-805 (MACT, Subpart XXXX)	Six force grinders (Nos. RG-800 through RG-805)	DC-169	One rotoclone (self-induced scrubber) (7,500 ACFM, minimum)
Run-Out Grinder Operation #9 consisting of:				
30	MG1 (MACT, Subpart XXXX)	One Collman Grinder	DC-170	One bagfilter (110 square feet of filter area, minimum)
Tire Repair Process consisting of:				
30	TR01-F67 TR01-F69 (MACT, Subpart XXXX)	Tire Repair Tables 2 and 3	DC-91	One dust cyclone (30 inches in diameter, minimum)
30	TR01-AE63 (MACT, Subpart XXXX)	Tire Repair Table 4	DC-31	One self-induced spray scrubber (20,000 ACFM, minimum)

Page #	Emission Source ID No.	Emission Source Description	Control Device ID No.	Control Device Description
Facility-Wide				
30	FWS1	Solvent and Cement Use	NA	NA

*NSPS, Subpart Dc applies to this source if construction, reconstruction or modification is commenced after **June 9, 1989** AND the source has a maximum heat input capacity equal to or greater than 10 million Btu per hour.

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. Four natural gas/No. 6 fuel oil/No. 2 fuel oil/recycled No. 6 fuel oil-fired boilers (ID Nos. BL01 through BL04)

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	(ID Nos. BL01 through BL04 only) 0.25 pounds per million Btu heat input	15A NCAC 02D .0503
Sulfur dioxide	2.3 pounds per million Btu heat input	15A NCAC 02D .0516
Visible emissions	(ID Nos. BL01 through BL04 only) 40 percent opacity	15A NCAC 02D .0521
filterable PM mercury carbon monoxide	(ID Nos. BL01 through BL04 only) <i>For No. 6 Fuel Oil/recycled No. 6 Fuel Oil Firing</i> 0.45 lbs/mmBtu 2.0e-05 lbs/mmBtu 28 ppmvd & 7% O ₂	15A NCAC 02D .1109
filterable PM mercury carbon monoxide	<i>For No. 2 Fuel Oil Firing</i> 0.14 lbs/mmBtu 2.0e-06 lbs/mmBtu 30 ppmvd & 7% O ₂	
hazardous air pollutants	<i>For Natural Gas</i> Best Combustion Practices	

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

- a. Emissions of particulate matter from the combustion of natural gas, No. 6 fuel oil, No. 2 fuel oil, and recycled fuel oil that are discharged from these sources (ID Nos. BL01 through BL04) into the atmosphere, shall not exceed 0.25 pounds per million Btu heat input.

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

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

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

- c. No monitoring/recordkeeping/reporting is required for particulate matter emissions from the firing of natural gas, No. 2 fuel oil, No. 6 fuel oil or recycled fuel oil in these sources (**ID Nos. BL01 through BL04**).

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

- a. Emissions of sulfur dioxide from these sources (**ID Nos. BL01 through BL04**) shall not exceed 2.3 pounds per million Btu heat input. Sulfur dioxide formed by the combustion of sulfur in fuels, wastes, ores, and other substances shall be included when determining compliance with this standard.

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

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

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

- c. No monitoring/recordkeeping is required for sulfur dioxide emissions from the firing of natural gas or No. 2 fuel oil in these sources (**ID Nos. BL01 through BL04**).
- d. The maximum sulfur content of any No. 6 fuel oil received and burned in these sources (**ID Nos. BL01 through BL04**) shall not exceed 2.1 percent by weight. The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0516 if the sulfur content of the fuel oil exceeds this limit.
- e. To assure compliance, the Permittee shall monitor the sulfur content of the No. 6 fuel oil by using fuel oil supplier certification per shipment received. The results of the fuel oil supplier certifications shall be recorded in a logbook (written or electronic format) on a quarterly basis and shall include the following information:
 - i. the name of the fuel oil supplier;
 - ii. the maximum sulfur content of the fuel oil received during the quarter;
 - iii. the method used to determine the maximum sulfur content of the fuel oil; and
 - iv. a certified statement signed by the responsible official that the records of fuel oil supplier certification submitted represent all of the No. 6 fuel oil fired during the period.The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0516 if the sulfur content of the oil is not monitored and recorded.

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

- f. No reporting is required for sulfur dioxide emissions from the firing of natural gas or No. 2 fuel oil in these sources (**ID Nos. BL01 through BL04**).
- g. The Permittee shall submit a summary report of the fuel oil supplier certifications postmarked on or before January 30 of each calendar year for the preceding six-month period between July and December and July 30 of each calendar year for the preceding six-month period between January and June. All instances of deviations from the requirements of this permit must be clearly identified.

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

- a. Visible emissions from these sources (**ID Nos. BL01 through BL04**) shall not be more than 40 percent opacity when averaged over a six-minute period. However, six-minute averaging periods may exceed 40 percent not more than once in any hour and not more than four times in any 24-hour period. In no event shall the six-minute average exceed 90 percent opacity.

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

- b. If emissions testing is required, the testing shall be performed in accordance General Condition JJ. If the results of this test are above any limit given in Section 2.1 A.3.a or b above, the Permittee shall be

deemed in noncompliance with 15A NCAC 02D .0521.

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

- c. No monitoring/recordkeeping is required for visible emissions from the firing of natural gas or No. 2 fuel oil in these sources (**ID Nos. BL01 through BL04**).
- d. To assure compliance, once a day the Permittee shall observe the emission points of these sources (**ID Nos. BL01 through BL04**) for any visible emissions above normal. The daily observation must be made for each day of the calendar year period to ensure compliance with this requirement. The Permittee shall be allowed three (3) days of absent observations per semi-annual period. If visible emissions from these sources are observed to be above normal, the Permittee shall either:
 - i. take appropriate action to correct the above-normal emissions as soon as practicable and within the monitoring period and record the action taken as provided in the recordkeeping requirements below, or
 - ii. demonstrate that the percent opacity from the emission points of the emission source in accordance with 15A NCAC 02D .2610 (Method 9) for 12 minutes is below the limit given in 2.1 A.3. a., above.

If the above-normal emissions are not corrected per i. above or if the demonstration in ii. above cannot be made, the Permittee shall be deemed to be in noncompliance with 15A NCAC 02D .0521.

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

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

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

- g. No reporting is required for visible emissions from the firing of natural gas or No. 2 fuel oil in these sources (**ID Nos. BL01 through BL04**).
- h. 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. Reserved.

5. 15A NCAC 02D .1109: Case-by-Case MACT

- a. The initial compliance date for the emission limitations and associated monitoring, recordkeeping, and reporting requirements listed below is **December 20, 2013**. These conditions need not be included on the annual compliance certification until after the initial compliance date. These limits apply except for periods of startup, shutdown, and malfunction. The Permittee shall follow the procedures in 15A NCAC 02D .0535 for any excess emissions that occur during periods of startup, shutdown, or malfunction.
- b. Emissions from these sources shall not exceed the emissions limitations listed below as a result of firing
 - i. No. 6 fuel oil:
 - (A) Filterable PM: 0.45 lbs/mmBtu,
 - (b) Mercury (Hg): 2.0e-05 lbs/mmBtu and
 - (C) Carbon Monoxide (CO): 28 ppmvd, corrected to 7% oxygen
 - ii. No. 2 fuel oil

Work Practice Standards¹

These emissions shall only apply if the boiler fires at least 10% fuel oil on an annual average heat input basis. If the Permittee fires less than 10% fuel oil, these emissions limitations and the associated compliance testing shall not apply. However, the Permittee shall retain records of the fuels fired in the boiler in accordance with Section 2.1 A.5.f. of this permit.

If the Permittee limits fuel oil firing to less than 10% on an annual average heat input basis, it shall create and retain the following records at least once per calendar month:

- iii. Record the fuel use by each affected source, including the type(s) of fuel and amount(s) used, during the previous calendar month; and,
- iv. Calculate the annual average heat input from fuel oil for each affected source during the previous 12-month period.

If the annual average heat input is equal to or greater than 10% for any 12-month period, the Permittee shall conduct an initial compliance test within 60 days following the end of the 12-month period. Monitoring and recordkeeping requirements associated with fuel oil firing shall be implemented as soon as practicable, and in no case later than 60 days following the end of the 12-month period. The Permittee shall be deemed in non-compliance with 15A NCAC 02D .1109 if it fails to comply with the recordkeeping requirements.

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

- c. To demonstrate compliance with the standards provided in Sections 2.1 A.5.b. and c. above, the Permittee shall conduct compliance tests for each listed pollutant. The Permittee may choose either of the following methods for the compliance tests:
 - i. **Initial & Periodic Stack Testing**. Stack testing shall be performed in accordance with 15A NCAC 02D .2601 and General Condition JJ in Section 3 of this permit. Tests may not be conducted during periods of startup, shutdown, or malfunction. Following the initial compliance test, the Permittee shall test the boiler annually. Each stack test shall be conducted between 11 and 13 months after the previous stack test. However, if a stack test shows that the emission rate of any pollutant is less than or equal to 80 percent of the allowable limit, the stack test frequency shall be reduced to once every five years for that pollutant.
 - ii. **Periodic Fuel Analysis**. The Permittee may use a fuel analysis to demonstrate compliance with the mercury standard. Fuel analyses shall be conducted annually. Following the initial fuel analysis, each analysis shall be conducted between 11 and 13 months after the previous analysis. If a fuel analysis shows a potential exceedance of an emission limitation in Section 2.1 A.51.b. and c. the Permittee shall conduct a follow-up stack test of the affected source within 90 days. If the follow-up stack test shows an exceedance of the limit, the Permittee shall be deemed in non-compliance with 15A NCAC 02D .1109.

The initial compliance test shall be conducted within 180 days of the initial compliance date. The Permittee shall be deemed in noncompliance with 15A NCAC 02D .1109 if the required compliance tests are not conducted, or if the results of a compliance test exceed a limit in Sections 2.1 A.5.b. and c., above.

Work Practice Standards [15A NCAC 02Q .0508(f)]

- d. The Permittee shall perform an annual boiler inspection and maintenance as recommended by the manufacturer, or as a minimum, the inspection and maintenance requirement shall include the following:
 - i. Inspect the burner, and clean or replace any components of the burner as necessary;
 - ii. Inspect the flame pattern and make any adjustments to the burner necessary to optimize the flame pattern; and,
 - iii. Inspect the system controlling the air-to-fuel ratio and ensure that it is correctly calibrated and functioning properly.

The Permittee shall conduct at least one tune-up per calendar year to demonstrate compliance with this

¹ According to the 112(j) guidance document (<http://daq.state.nc.us/permits/112j/>) for No. 2 Fuel Oil only work practice standards apply.

requirement. The Permittee shall be deemed in noncompliance with 15A NCAC 02D .1109 if the affected boilers are not inspected and maintained as required above.

- e. The results of any required annual burner 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 of each recorded action;
 - ii. The results of each inspection; and,
 - iii. The results of any maintenance performed on the boilers.The Permittee shall be deemed in noncompliance with 15A NCAC 02D .1109 if these records are not maintained.

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

- f. **Notification of Compliance Status.** The Permittee must submit a Notification of Compliance Status that meets the requirements of 40 CFR 63.9(h)(2)(ii) before the close of business on the 60th day following the completion of the final required performance test and/or other initial compliance demonstration. The Notification of Compliance Status report must contain the following information, as applicable:
 - i. A description of the affected source(s) including identification of which subcategory the source is in, the capacity of the source, a description of the add-on controls used on the source description of the fuel(s) burned, and justification for the fuel(s) burned during the performance test.
 - ii. Summary of the results of all performance tests and calculations conducted to demonstrate initial compliance.
 - iii. A certification signed by the Responsible Official that the facility has met all applicable emission limits and work practice standards.
- g. **Semiannual Summary Report.** The Permittee shall submit a summary report 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. The first summary report shall be required on January 30, 2014. The report shall include the following:
 - i. Company name and address;
 - ii. Statement by a responsible official with that official's name, title, and signature, certifying the truth, accuracy, and completeness of the content of the report;
 - iii. Date of report and beginning and ending dates of the reporting period;
 - iv. A summary of the results of the annual performance tests;
 - v. Signed statement indicating that no new types of fuel were fired in the affected sources.

Last Effective Date of 15A NCAC 02D .1109: Case-by-Case MACT

- h. The Permittee shall comply with this CAA §112(j) standard **until May 19, 2019**. The initial compliance date for the applicable CAA §112(d) standard for "National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers and Process Heaters" is **May 20, 2019**, as specified in Section 2.1.A. 6., below.

6. 15A NCAC 02D .1111: MAXIMUM ACHIEVABLE CONTROL TECHNOLOGY

Applicability [40 CFR 63.7485, §63.7490(d), §63.7499(l)]

- a. For the existing sources(s) categorized as existing "units designed to burn gas 1 fuels," the Permittee shall comply with all applicable provisions, including the monitoring, recordkeeping, and reporting contained in Environmental Management Commission Standard 15A NCAC 02D .1111 "Maximum Achievable Control Technology" (MACT) as promulgated in 40 CFR 63, Subpart DDDDD . "National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters" and Subpart A "General Provisions."
 - i. The effective date for this regulation is **May 20, 2019**.

Definitions and Nomenclature

- b. For the purpose of this permit condition, the definitions and nomenclature contained in 40 CFR 63.7575 shall apply.
- i. The sources, as requested by the Permittee, shall meet the definition of a “unit designed to burn only natural gas with the following exceptions:
- A. The Permittee may burn liquid fuel during periods of gas curtailment or gas supply interruptions of any duration.
- B. The Permittee may only burn liquid fuel during periodic testing, maintenance, or operator training, not to exceed a combined total of 48 hours during any calendar year.

[40 CFR § 63.7575(Period of gas curtailment)]

40 CFR Part 63 Subpart A General Provisions

- c. The Permittee shall comply with the requirements of 40 CFR 63 Subpart A General Provisions according to the applicability of Subpart A to such sources as identified in Table 10 of MACT Subpart DDDDD.
- [40 CFR § 63.7565]

Compliance Date

- d. The Permittee shall complete the initial tune up and the one-time energy assessment no later than May 20, 2019.
- [40 CFR § 63.7510(e) and 40 CFR § 63.56(b)]

Notifications

- e. The Permittee shall submit a Notification of Compliance Status. The notification shall contain the following:
- i. A description of the affected unit(s) including identification of which subcategories the unit is in, the design heat input capacity of the unit, and description of the fuel(s) burned.
- ii. the following certification(s) of compliance, as applicable:
- A. The Permittee complies with the required initial tune-up according to the procedures in 40 CFR § 63.7540(a)(10)(i) through (vi) [See Section 2.1 A. 6. g., conditions, below] and
- B. The Permittee has had an energy assessment performed according to 40 CFR § 63.7530(e) [See Section 2.1 A. 6. k., conditions, below] and is an accurate depiction of the facility at the time of the assessment.

The notification must be signed by a responsible official and sent before the close of business on the 60th day following the completion of the initial tune up and one time energy assessment (whichever is later).

[40 CFR § 63.7545(e)(8), 40 CFR § 63.7530(d),(e), and (f)]

General Compliance Requirements

- f. The Permittee shall be in compliance with the work practice standards in this subpart. These standards apply at all times the affected unit is operating.
- [40 CFR § 63.7505(a) and 40 CFR § 63.7500(f)]

Work Practice Standards [15A NCAC 02Q .0508(f)]

- g. The Permittee shall conduct a tune-up of the boilers annually as specified below:
- i. As applicable, inspect the burner, and clean or replace any components of the burner as necessary (the Permittee may delay the burner inspection until the next scheduled or unscheduled unit shutdown);
- ii. Inspect the flame pattern, as applicable, and adjust the burner as necessary to optimize the flame pattern. The adjustment should be consistent with the manufacturer's specifications, if available;
- iii. Inspect the system controlling the air-to-fuel ratio, as applicable, and ensure that it is correctly calibrated and functioning properly (you may delay the inspection until the next scheduled unit shutdown);
- iv. Optimize total emissions of carbon monoxide. This optimization should be consistent with the manufacturer's specifications, if available, and with any NO_x requirement to which the unit is subject; and
- v. Measure the concentrations in the effluent stream of carbon monoxide in parts per million, by volume,

and oxygen in volume percent, before and after the adjustments are made (measurements may be either on a dry or wet basis, as long as it is the same basis before and after the adjustments are made). Measurements may be taken using a portable CO analyzer.

[40 CFR § 63.7500(a), Table 3 of MACT DDDDD and 40 CFR § 63.7540(a)(10)]

- h. Each annual tune-up shall be conducted no more than 13 months after the previous tune-up. [40 CFR § 63.7515(d)]
- i. If the unit is not operating on the required date for a tune-up, the tune-up must be conducted within 30 calendar days of startup.
[40 CFR § 63.7540(a)(13) and 40 CFR § 63.7515(g)]
- j. At all times, the Permittee must operate and maintain any affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator that may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source.

[40 CFR § 63.7500(a)(3)]

The Permittee shall be deemed in noncompliance with 15A NCAC 02D .1111 if the requirements in Section 2.1 A. 6. f., through j., are not met.

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

- k. The Permittee shall have a one-time energy assessment performed by a qualified energy assessor. The energy assessment must include the following items, with the extent of the evaluation for items (i) to (v) appropriate for the on-site technical hours listed in 40 CFR § 63.7575:
 - i. A visual inspection of the boiler or process heater system;
 - ii. An evaluation of operating characteristics of the boiler or process heater systems, specifications of energy using systems, operating and maintenance procedures, and unusual operating constraints.;
 - iii. An inventory of major energy use systems consuming energy from affected boilers and process heaters and which are under the control of the boiler/process heater owner/operator;
 - iv. A review of available architectural and engineering plans, facility operation and maintenance procedures and logs, and fuel usage;
 - v. A review of the facility's energy management practices and provide recommendations for improvements consistent with the definition of energy management practices, if identified;
 - vi. A list of cost-effective energy conservation measures that are within the facility's control;
 - vii. A list of the energy savings potential of the energy conservation measures identified; and
 - ix. A comprehensive report detailing the ways to improve efficiency, the cost of specific improvements, benefits, and the time frame for recouping those investments.

[§63.7500(a)(1), Table 3 of MACT DDDDD]

The Permittee shall be deemed in noncompliance with 15A NCAC 02D .1111 if the requirements in Section 2.1 A. 6. k., are not met.

Recordkeeping Requirements [15A NCAC 02Q .0508(f), 40 CFR 63.7555]

- l. The Permittee shall keep the following:
 - i. A copy of each notification and report submitted to comply with this subpart, including all documentation supporting any Initial Notification or Notification of Compliance Status, or semiannual compliance report that has been submitted, according to the requirements in 40 CFR 63.10(b)(2)(xiv).

[40 CFR § 63.7555(a)(1)]

- ii. Maintain on-site and submit, if requested by the Administrator, an annual report containing the information in paragraphs (A) through (C) below:
 - (A) The concentrations of carbon monoxide in the effluent stream in parts per million by volume, and oxygen in volume percent, measured before and after the tune-up of the boiler or process heater;
 - (B) A description of any corrective actions taken as a part of the tune-up; and
 - (C) The type and amount of fuel used over the 12 months prior to the annual tune-up, but only if the unit was physically and legally capable of using more than one type of fuel during that period. Units sharing a fuel meter may estimate the fuel use by each unit. [40 CFR § 63.7540(a)(10)(vi)]
- iii. The associated records for conditions f. through k. including:
 - (A) The occurrence and duration of each malfunction of operation (i.e., process equipment) or the required air pollution control and monitoring equipment.
[40 CFR § 63.10(b)(2)(ii)]
- iv. Maintain records of the calendar date, time, occurrence and duration of each startup and shutdown.
[40 CFR § 63.7555(i)]
- v. Maintain records of the type(s) and amount(s) of fuels used during each startup and shutdown.
[40 CFR § 63.7555(j)]
- vi. maintain the following records:
 - A. types of fuels combusted during periods of gas curtailment, gas supply interruption, periodic testing maintenance and operator training;
 - B. date and duration of periods of gas curtailment and gas supply interruption; and
 - C. date and duration of periods of testing, maintenance and operator training while combusting liquid fuel.

The Permittee shall be deemed in noncompliance with 15A NCAC 02D .1111 if the Permittee burns liquid fuel outside of periods of gas curtailment and gas supply interruption, except for the combined total of 48 hours during any calendar year allowed for periodic testing, maintenance, or operator training.

- m. The Permittee shall:
 - i. maintain records in a form suitable and readily available for expeditious review;
 - ii. keep each record for 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record; and
 - iii. keep each record on site for at least 2 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record. The Permittee can keep the records offsite for the remaining 3 years.
[40 CFR § § 63.7560, and 40 CFR § 63.10(b)(1)]

The Permittee shall be deemed in noncompliance with 15A NCAC 02D .1111 if records are not maintained as described in Section 2.1 A. 6. l., through m.

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

- n. The Permittee shall submit compliance reports to the DAQ on an annual basis. The first report shall cover the period beginning on the compliance date specified in condition d. and ending on the earliest December 31st following a complete annual period. Subsequent reports shall cover the periods from January 1 to December 31. The Permittee shall submit the compliance reports postmarked on or before January 31.
[40 CFR § 63.7550(a) and (b)]
 - i. This report must also be submitted electronically through the EPA's Central Data Exchange (CDX) (www.epa.gov/cdx). However, if the reporting form specific to this subpart is not available in CEDRI at the time that the report is due the report the Permittee submit the report to the at the appropriate address listed in 40 CFR 63.13. [40 CFR § 63.7550(h)(3)]

- o. The compliance report must contain the following information:
 - i. Company name and address;
 - ii. Process unit information, emissions limitations, and operating parameter limitations;
 - iii. Date of report and beginning and ending dates of the reporting period;
 - iv. The total operating time during the reporting period;
 - iv. If there are no deviations from the requirements of the work practice requirements in condition g. above, a statement that there were no deviations from the work practice standards during the reporting period; and
 - v. Include the date of the most recent tune-up for each unit required according to condition g. Include the date of the most recent burner inspection if it was not done as scheduled and was delayed until the next scheduled or unscheduled unit shutdown.

[40 CFR 63.7550(a) and (c), Table 9]

- p. The report must contain a summary of the records required for Section 2.1 A. 6. 1., vi., above.
- q. If you have a deviation from a work practice standard during the reporting period, the report must contain the following information:
 - i. A description of the deviation and which work practice standard from which you deviated; and
 - ii. Information on the number, duration, and cause of deviations (including unknown cause), as applicable, and the corrective action taken.

[40 CFR 63.7550(a) and (d), 63.7540(b), Table 9]

The Permittee shall be deemed in noncompliance with 15A NCAC 02D .1111 if the reporting requirements in Section 2.1 A. 6. n., through q., are not met.

B. One temporary, back-up natural gas/No. 2 fuel oil-fired boiler (maximum heat input capacity of less than 100 million Btu per hour; ID No. TMP01)

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

Regulated Pollutant	Limits/Standards	Applicable Regulation
Particulate matter	0.23 pounds per million Btu heat input	15A NCAC 02D .0503
Sulfur dioxide	2.3 pounds per million Btu heat input	15A NCAC 02D .0516
Visible emissions	20 percent opacity	15A NCAC 02D .0521
Nitrogen oxides	Less than 40 tons per 12-month period	15A NCAC 02Q .0317 PSD Avoidance
Sulfur dioxide	Less than 40 tons per 12-month period	15A NCAC 02Q .0317 PSD Avoidance
40 CFR 60, Subpart Dc		
The following standards are only applicable to temporary, back-up boilers that commenced construction, reconstruction, or modification after June 9 th , 1989; <u>AND</u> that have a maximum heat input capacity equal to or greater than 10 million Btu per hour		
Sulfur dioxide	No. 2 fuel oil sulfur content shall not exceed 0.5% by weight	15A NCAC 02D .0524 40 CFR 60, Subpart Dc
Visible emissions	Only applicable to boilers with a maximum heat input capacity \geq30 million Btu per hour 20 percent opacity	15A NCAC 02D .0524 40 CFR 60, Subpart Dc
hazardous air pollutants	The boiler (ID No. TMP01) or a replacement remains at a location within the facility and performs the same or similar function for not more than 12 consecutive months	15A NCAC 2Q. 0317: Avoidance Conditions for 15A NCAC 02D .1111: MACT

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

- a. Emissions of particulate matter from the combustion of natural gas and No. 2 fuel oil from any temporary, back-up boiler (**ID No. TMP01**) shall not exceed 0.23 pounds per million Btu heat input.

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

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

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

- c. No monitoring/recordkeeping/reporting is required for particulate matter emissions from the combustion of natural gas or No. 2 fuel oil in these sources (**ID No. TMP01**).

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

- a. Emissions of sulfur dioxide from any temporary, back-up boiler (**ID No. TMP01**) shall not exceed 2.3 pounds per million Btu heat input. Sulfur dioxide formed by the combustion of sulfur in fuels, wastes, ores, and other substances shall be included when determining compliance with this standard.

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

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

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

- c. No monitoring/recordkeeping/reporting is required for sulfur dioxide emissions from the firing of natural gas or No. 2 fuel oil in these sources (**ID No. TMP01**).

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

- a. Visible emissions from any temporary, back-up boiler (**ID No. TMP01**) shall not be more than 20 percent opacity when averaged over a six-minute period. However, six-minute averaging periods may exceed 20 percent not more than once in any hour and not more than four times in any 24-hour period. In no event shall the six-minute average exceed 87 percent opacity.

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

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

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

- c. No monitoring/recordkeeping/reporting is required for visible emissions from the firing of natural gas or No. 2 fuel oil in these sources (**ID No. TMP01**).

4. 15A NCAC 2Q .0317: AVOIDANCE CONDITIONS

for 15A NCAC 02D .0530: PREVENTION OF SIGNIFICANT DETERIORATION

- a. In order to avoid applicability of 15A NCAC 02D .0530(g) for major sources and major modifications, total sulfur dioxide emissions from all temporary, back-up boiler(s) (**ID No. TMP01**) shall not exceed 40 tons during any consecutive 12-month period.
- b. In order to avoid applicability of 15A NCAC 02D .0530(g) for major sources and major modifications, total nitrogen dioxide emissions from all temporary, back-up boiler(s) (**ID No. TMP01**) shall not exceed 40 tons during any consecutive 12-month period.

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

- c. The Permittee shall keep monthly records of fuel usage in a log (written or in electronic format), as follows:
 - i. The total quantity (in million scf) of natural gas fired at the boiler;
 - ii. The total quantity (in 1,000 gal) of No. 2 fuel oil fired at the boiler; and
 - iii. The fuel oil supplier certification for any fuel oil fired at the boiler, including the sulfur content of the oil (in percent by weight).The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0530 if records of the fuel usage and No. 2 fuel oil sulfur content are not created and retained as required above.
- d. Each calendar month, the Permittee shall calculate SO₂ emissions from all back-up boilers (**ID No. TMP01**) for the previous month and previous 12-month period and record calculated emissions in a logbook (written or electronic format), according to the following formulas:
 - i. Calculate SO₂ emissions from the previous calendar month using the following equation:

$$E_{SO_2} = 142 * S * Q_{fo2} + 0.6 * Q_{ng}$$

Where,

E_{SO2} = SO₂ emissions (in lbs) during the previous calendar month

S = Sulfur content in the No. 2 fuel oil (in percent by weight)

Q_{fo2} = Quantity of No. 2 fuel oil fired at the temporary boiler during the previous calendar month (in 1,000 gal),

Q_{ng} = Quantity of natural gas fired at the temporary boiler during the previous calendar month (in million scf)

- ii. Sum the SO₂ emissions from all temporary, back-up boilers for the previous 12-month period to determine the 12-month rolling emission total.

The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0530 if records of the monthly calculations listed above are not retained or if the 12-month rolling emission totals are greater than the emission limit provided in Section 2.1 B.4.a above.

- e. Each calendar month, the Permittee shall calculate NO_x emissions from all back-up boilers (**ID No. TMP01**) for the previous month and previous 12-month period and record calculated emissions in a logbook (written or electronic format), according to the following formulas:
 - i. Calculate NO_x emissions from the previous calendar month using the following equation:

$$E_{NO_x} = 20 * Q_{fo2} + 100 * Q_{ng}$$

Where:

E_{NO_x} = NO_x emissions (in lbs) during the previous calendar month

- ii. Sum the NO_x emissions from all temporary, back-up boilers for the previous 12-month period to determine the 12-month rolling emission total.

The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0530 if records of the monthly calculations listed above are not retained or if the 12-month rolling emission totals are greater than the emission limit provided in Section 2.1 B.4.b above.

Notifications and Reports [15A NCAC 2Q .0508(f)]

- f. *Initial Notification.* At least 7 days prior to installing any temporary, back-up boiler at the facility, the Permittee shall submit a written notification to the Regional Supervisor, DAQ including the following information:
 - i. Indicate the anticipated date of boiler installation;
 - ii. Indicate the anticipated date of initial startup of the boiler;
 - iii. Indicate the maximum heat input capacity of the boiler (in million Btu/hr);
 - iv. Indicate whether the boiler will be affected by 15A NCAC 02D .0524 (i.e., 40 CFR 60, Subpart Dc);
 - v. Identify whether the unit is a firetube- or watertube-type boiler;
 - vi. Identify fuels that the boiler will potentially fire (i.e., natural gas and/or No. 2 fuel oil);
 - vii. Describe the purpose/function of the back-up boiler; and
 - viii. Identify the period of time the Permittee anticipates that the back-up boiler will remain on-site.The Permittee shall be deemed in non-compliance with 15A NCAC 02D .0530 if it fails to provide the initial notification as provided above.

- g. *Semiannual Report.* The Permittee shall submit a semi-annual summary report, acceptable to the Regional Air Quality Supervisor, of monitoring and recordkeeping activities postmarked on or before January 30 of each calendar year for the preceding six-month period between July and December and July 30 of each calendar year for the preceding six-month period between January and June. The report shall contain the following:
 - i. The monthly SO₂ and NO_x emissions from all temporary, back-up boilers (**ID No. TMP01**) for the previous 17 months. The emissions must be calculated for each of the 12-month periods over the previous 17 months;
 - ii. The monthly quantities of natural gas and No. 2 fuel oil consumed at all temporary, back-up boilers (**ID No. TMP01**) for the previous 17 months;
 - iii. Fuel supplier certification(s) for distillate fuel oil, as provided in Section 2.1 B.4.d.iii above;
 - iv. A certified statement signed by the owner or operator that the records of fuel supplier certification(s) submitted represents all of the fuel fired at the affected boiler (**ID No. TMP01**) during the semiannual period; and
 - v. All instances of deviations from the requirements of this permit must be clearly identified

- h. *Final Notification.* Within 7 days of removing any temporary, back-up boiler from the facility, the Permittee shall submit a written notification to the Regional Supervisor, DAQ including the following information:
 - i. Indicate the actual date the initial notification, required pursuant to Section 2.1 B.4.f above was submitted to the DAQ;
 - ii. Indicate the actual date of boiler installation;
 - iii. Indicate the actual date the boiler was removed from the facility;
 - iv. Indicate the total number of days the temporary boiler was on-site;
 - v. Indicate the total quantity of each type of fuel fired at the temporary boiler; and
 - vi. Indicate the monthly emission rates of SO₂ and NO_x from any temporary boiler for each of the previous 12 months, and total SO₂ and NO_x emissions for the previous 12-month period.The Permittee shall be deemed in non-compliance with 15A NCAC 02D .0530 if it fails to provide the final notification as provided above.

5. 15A NCAC 02D .0524: NEW SOURCE PERFORMANCE STANDARDS

- a. Temporary, back-up boilers (**ID No. TMP01**) that meet the criteria listed below are affected sources under the "New Source Performance Standards" (NSPS) as promulgated in 40 CFR Part 60 Subpart Dc, including Subpart A "General Provisions":
 - i. The boiler was constructed, reconstructed, or modified after June 9th, 1989; AND
 - ii. The boiler has a maximum heat input capacity equal to or greater than 10 million Btu per hour.For Subpart Dc-affected boilers, the Permittee shall comply with all applicable provisions, including the notification, testing, recordkeeping, and monitoring requirements contained in Environmental Management Commission Standard 15A NCAC 02D .0524.

Emission Limitations [15A NCAC 02D .0524]

- b. The maximum sulfur content of any fuel oil received and fired in the Subpart Dc-affected boiler shall not exceed 0.5 percent by weight. [40 CFR 60.42c(d)]
- c. For any Subpart Dc-affected boiler with a maximum heat input capacity of greater than or equal to 30 million Btu per hour, visible emissions shall not be more than 20 percent opacity when averaged over a six-minute period, except for one six-minute period per hour of not more than 27 percent opacity. [40 CFR 60.43c(c)]

Testing [15A NCAC 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 any limit given in Section 2.1 B.5.b or c above, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .0524.
- e. Within 60 days of installing any temporary, back-up boiler subject to the opacity limitation provided in Section 2.1 B.5.c above, the Permittee shall conduct a Method 9 test (6-minute average of 24 observations) to determine the opacity of stack emissions. If the Permittee fails to conduct the opacity observation or if the results of the test are above the applicable limit, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .0524.

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

- f. The Permittee shall retain a copy of the fuel supplier certification for any No. 2 fuel oil fired at the affected boiler (**ID No. TMP01**). The fuel supplier certification shall include the following information:
 - i. The name of the oil supplier;
 - ii. The sulfur content of the oil (in % by weight); and
 - iii. A statement from the oil supplier that the oil complies with the specification under the definition of distillate oil in 40 CFR 60.41c.

The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0524 if the sulfur content of the oil exceeds the limit provided in Section 2.1 B.5.b above or if fuel supplier certifications are not retained as described above. [40 CFR 60.46c(d), 40 CFR 60.48c(f)]

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

- g. The Permittee shall submit the following written notifications to the Regional Supervisor for any Subpart Dc affected temporary, back-up boiler (**ID No. TMP01**):
 - i. An initial notification of the date of actual initial startup of the boiler within 15 days of such date [40 CFR 60.7(a)(1)];
 - ii. An opacity observation notification indicating the anticipated date that the Permittee will be conducting the Method 9 opacity observation, as required in Section 2.1 B.5.e above, at least 30 days prior to such date [40 CFR 60.7(a)(6), 40 CFR 60.8(d)]; and
 - iii. Performance test results with the results of the Method 9 opacity observation, as required in Section 2.1 B.5.e above, shall be submitted within 30 days of the test.
- h. *Semiannual Report.* In addition to any other reporting required by 40 CFR 60.48c or notification requirements to the EPA, the Permittee is required to provide a semiannual summary report, acceptable to the Regional Air Quality Supervisor, of the sulfur content of the distillate fuel oil fired postmarked on or before January 30 of each calendar year for the preceding six-month period between July and December and July 30 of each calendar year for the preceding six-month period between January and June. The summary report shall include the following information:
 - i. Fuel supplier certification(s) for distillate fuel oil, as provided in Section 2.1 B.5.f above;
 - ii. A certified statement signed by the owner or operator that the records of fuel supplier certification(s) submitted represents all of the fuel fired at the affected boiler (**ID No. TMP01**) during the semiannual period; and
 - iii. All instances of deviations from the requirements of this permit must be clearly identified.

**6. 15A NCAC 2Q. 0317: AVOIDANCE CONDITIONS for
15A NCAC 02D .1111: MAXIMUM AVAILABLE CONTROL TECHNOLOGY**

- a. In order to avoid the applicability of Environmental Management Commission Standard 15A NCAC 02D .1111 "Maximum Available Control Technology" (MACT) as promulgated in 40 CFR Part 63 Subpart DDDDD, "National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters," including Subpart A "General Provisions," the Permittee shall operate the emission source (**ID No. TMP01**) as a temporary boiler as defined in 40 CFR 63.7575.

Temporary boiler means any gaseous or liquid fuel boiler that is designed to, and is capable of, being carried or moved from one location to another by means of, for example, wheels, skids, carrying handles, dollies, trailers, or platforms. A boiler is not a temporary boiler if any one of the following conditions exists:

- i. The equipment is attached to a foundation.
- ii. The boiler or a replacement remains at a location within the facility and performs the same or similar function for more than 12 consecutive months, unless the regulatory agency approves an extension. An extension may be granted by the regulating agency upon petition by the owner or operator of a unit specifying the basis for such a request. Any temporary boiler that replaces a temporary boiler at a location and performs the same or similar function will be included in calculating the consecutive time period.
- iii. The equipment is located at a seasonal facility and operates during the full annual operating period of the seasonal facility, remains at the facility for at least 2 years, and operates at that facility for at least 3 months each year.
- iv. The equipment is moved from one location to another within the facility but continues to perform the same or similar function and serve the same electricity, steam, and/or hot water system in an attempt to circumvent the residence time requirements of this definition.
[40 CFR § 63.7491, and 40 CFR § 63.7575]

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

- b. The Permittee shall maintain, and make available upon request, the following records:
 - i. the first, last and total number of days the boiler is on site for each consecutive time period the boiler is brought on site and;
 - ii. the function of the boiler for each consecutive time period.

The results shall be maintained in a logbook (written or electronic format) on-site and made available to an authorized representative upon request.

The Permittee shall be deemed in noncompliance with 15A NCAC 02D .1111 if the records in condition c. above are not maintained or the boiler does not meet the definition of a temporary boiler as defined in condition a. above.

- C. One Carbon Black Tower 1 bucket elevator (ID No. CBT1-ES-210) with associated bin vent filter (ID No. DC-120)**
Six Carbon Black Tower 1 storage bins (ID Nos. CBT1-ES-211 through CBT1-ES-216) with associated bin vent filters (ID Nos. DC-121 through DC-126)
One Carbon Black transfer system (ID No. CBT1-TS1)
One Banbury #1 surge bin (ID No. CBT1-CBS-1) with associated bin vent filters (ID Nos. DC-140 through DC-143)
One Banbury #2 surge bin (ID No. CBT1-CBS-2) with associated bin vent filters (ID Nos. DC-144 through DC-147)
One Banbury #3 surge bin (ID No. CBT1-CBS-3) with associated bin vent filters (ID Nos. DC-148 through DC-151)
One Banbury #6A surge bin (ID No. CBT1-CBS-6A) with associated bin vent filters (ID Nos. DC-152 through DC-155)
One Carbon Black Tower 2 bucket elevator (ID No. CBT2-ES-220) with associated bin vent filter (ID No. DC-130)
Six Carbon Black Tower 2 six storage bins (ID Nos. CBT2-ES-221 through CBT2-ES-226) with associated bin vent filters (ID Nos. DC-131 through DC-136)
One Carbon Black transfer system (ID No. CBT2-TS2)
One Banbury #7 surge bin (ID No. CBT2-CBS-7) with associated bin vent filters (ID Nos. DC-156 through DC-159)

One Banbury #8 surge bin (ID No. CBT2-CBS-8) with associated bin vent filters (ID Nos. DC-160 through DC-164)

One pellet feed system operation (ID No. BO02) including four rubber pellet material systems with associated bagfilters (ID Nos. DC-25 through DC-28)

One Banbury Mixer #1 (ID No. BB01-K9-1) with associated bagfilter (ID No. DC-13), And/Or in series with RTO (RTO-1) And/Or with RTO (RTO-2)

Banbury Mixer #2 (ID No. BB02-L9-1) with associated bagfilter (ID No. DC-14), And/Or in series with RTO (RTO-1) And/Or with RTO (RTO-2)

Banbury Mixer #3 (ID No. BB03-M9-1) with associated bagfilter (ID No. DC-15), And/Or in series with RTO (RTO-1) And/Or with RTO (RTO-2)

One Banbury mixer #4 (ID No. BB04-P9-1) with associated bagfilter (ID No. DC-16)

One Banbury mixer #5 (ID No. BB05-Q9-1) with associated bagfilter (ID No. DC-17)

One Banbury mixer #6 (ID No. BB06-R9-1) with associated bagfilter (ID No. DC-18)

One Banbury Mixer #6A (ID No. BB06A-V9-1) with associated bagfilter (ID No. DC-19), And/Or in series with RTO (RTO-1) And/Or with RTO (RTO-2)

One Banbury Mixer #7 (ID No. BB07-AE8-1) with associated bagfilter (ID No. DC-20), And/Or in series with RTO (RTO-1) And/Or with RTO (RTO-2)

One Banbury Mixer #8 (ID No. BB08-CE8-1) with associated bagfilter (ID No. DC-21), And/Or in series with RTO (RTO-1) And/Or with RTO (RTO-2)

Two slurry mixers (ID Nos. K8-1 and K8-2) with associated bagfilter (ID No. DC-100)

Two slurry mixers (ID Nos. BE7-1 and BE7-2) with associated bagfilter (ID No. DC-21)

Banbury mixer Nos. 4, 5, 6, 6A, and 7 dump sinks (ID No. PDS-2) with associated bagfilters (ID Nos. DC-172 and 173)

Tuber Lines 7 through 10 (ID Nos. TL07, TL08, TL09, and TL10)

One line vacuum (ID No. FABR-G18) with associated bagfilter (ID No. DC-103)

One windup process (ID No. FABR-G25) with associated bagfilter (ID No. DC-104)

One windup (ID No. EBP-W27) with associated dust collector/cyclone (ID No. DC-106)

Two four-roll calendar operations (ID Nos. EBP-CAL1, and CAL2)

One two-roll calendar operation (ID No. CAL4)

Two mold cleaner processes (ID Nos. LE60 and LE61) with associated bagfilters (ID Nos. DC-94 and DC-95)

Sidewall grinders SG-101 through SG-105 and SG-201 through SG-206 (ID No. Q64) and SG-106 (ID No. P63) with associated self-induced spray scrubber (ID No. DC-31)

Sidewall grinders SG-300 through SG-306 and FG-317 (ID No. HE63) and SG-308 and SG-317 (ID No. KE63) with associated self-induced spray scrubber (ID No. DC-42)

Force grinders FG-101 through FG-109 and FG-201 through FG-208 (ID No. Q66) with associated self-induced spray scrubber (ID No. DC-48)

Force grinders FG-209 through FG-215 and FG-301 through FG-304 (ID No. WX66) with associated self-induced spray scrubber (ID No. DC-65)

Force grinders FG-305 through FG-316 (ID No. FE66) with associated self-induced spray scrubber (ID No. DC-77)

Force grinders FG-401 through FG-404 (ID No. ME69) with associated self-induced spray scrubber (ID No. DC-165)

- Force grinders RG-800 through RG-805 with associated self-induced spray scrubber (ID No. DC-169)
- Run-out grinders RG-500 through RG-507 (ID No. AE71) with associated self-induced spray scrubber (ID No. DC-166)
- Run-out grinders RG-600 through RG-607 (ID No. DE71) with associated self-induced spray scrubber (ID No. DC-167)
- Run-out grinders RG-700 through RG-704 (ID No. UE70) with associated self-induced spray scrubber (ID No. DC-168)
- One Collman grinder (ID No. MG1) with associated bagfilter (ID No. DC-170)
- Tire Repair Tables 2 and 3 (ID Nos. TR01-F67 and TR01-F69) with associated dust collector/cyclone (ID No. DC-91)
- Tire Repair Table 4 (ID No. TR01-AE63) with associated self-induced spray scrubber (ID No. DC-31)
- Lubricant applicers (ID Nos. N63, T63, and JE63)
- Facility-wide solvent and cement use (ID No. FWS1)
- one cold feed quad extruder (ID No. QE01),
- one 60-inch mill (QE02) and
- one bead winder with a small cold feed extruder (ID No. QE03)

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	<p>(For $P \leq 30$ tons per hour) $E = 4.10P^{0.67}$</p> <p>(For $P > 30$ tons per hour) $E = 55.0 P^{0.11} - 40$</p> <p>Where: E = allowable emission rate in pounds per hour P = process weight in tons per hour</p>	15A NCAC 02D .0515
Visible emissions	20 percent opacity	15A NCAC 02D .0521
Volatile organic compounds	(ID Nos. BB01-K9-1, BB02-L9-1, BB06A-V9-1, BB07-AE8-1, and BB08-CE8-1 only) See Section 2.2.B.1	15A NCAC 02D .0530
Volatile organic compounds	(ID Nos. QE01, QE02 and QE03 only) See Section 2.4 A. 2.	15A NCAC 02D .0530(U)

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

- a. Emissions of particulate matter from these emission sources (ID Nos. CBT1-ES-210, CBT1-ES-211 through CBT1-ES-216, CBT1-TS1, CBT1-CBS-1, CBT1-CBS-2, CBT1-CBS-3, CBT1-CBS-6A, CBT2-ES-220, CBT2-ES-221 through CBT2-ES-226, CBT2-TS2, CBT2-CBS-7, CBT2-CBS-8, BO02, BB01-K9-1, BB02-L9-1, BB03-M9-1, BB04-P9-1, BB05-Q9-1, BB06-R9-1, BB06A-V9-1, BB07-AE8-1, , BB08-CE8-1, K8-1, K8-2, BE7-1, BE7-2, PDS-2, FABR-G18, FABR-G25, EBP-W27, EBP-CAL1, CAL2, LE60, LE61, Q64, P63, HE63, KE63, Q66, WX66, FE66, ME69, AE71, DE71, UE70, TL07, TL08, TL09, TL10, TR01-F67, TR01-F69, TR01-AE63, RG800, RG801, RG802, RG803, RG804, RG805, MG1, QE01 and QE03) shall not exceed an allowable emission rate calculated by the following equations:

For process rates less than or equal to 30 tons per hour:

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

For process rates greater than 30 tons per hour:

$$E = 55.0 \times (P)^{0.11} - 40$$

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 2Q .0508(f)]

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

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

- c. Particulate matter emissions from these emission sources (**ID Nos. CBT1-ES-210, CBT1-ES-211 through CBT1-ES-216, CBT1-TS1, CBT1-CBS-1, CBT1-CBS-2, CBT1-CBS-3, CBT1-CBS-6A, CBT2-ES-220, CBT2-ES-221 through CBT2-ES-226, CBT2-TS2, CBT2-CBS-7, CBT2-CBS-8, BO02, BB01-K9-1, BB02-L9-1, BB03-M9-1, BB04-P9-1, BB05-Q9-1, BB06-R9-1, BB06A-V9-1, BB07-AE8-1, BB08-CE8-1, K8-1, K8-2, BE7-1, BE7-2, PDS-2, FABR-G18, FABR-G25, EBP-W27, EBP-CAL1, CAL2, LE60, LE61, Q64, P63, HE63, KE63, Q66, WX66, FE66, ME69, AE71, DE71, UE70, TL07, TL08, TL09, TL10, TR01-F67, TR01-F69, TR01-AE63, RG800, RG801, RG802, RG803, RG804, RG805, and MG1**) shall be controlled by 39 bin vent filters, 26 bagfilters, 9 dust control/cyclones, one dust control/bagfilters, and 10 spray scrubbers, as described above. 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 are no manufacturer's inspection and maintenance recommendations, as a minimum, the inspection and maintenance requirement shall include the following:

- i. monthly external inspection of the ductwork, bin vent filters, cyclones, scrubbers, and bagfilters noting the structural integrity; and
- ii. annual (for each 12 month period following the initial inspection) internal inspection of the bin vent filters, cyclones, scrubbers, and bagfilters noting the structural integrity and the condition of all filters.

The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0515 if the ductwork, bin vent filters, cyclones, scrubbers, and bagfilters are not inspected and maintained.

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

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

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

- e. The Permittee shall submit the results of any maintenance performed on any control device 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 02D .0521: CONTROL OF VISIBLE EMISSIONS

a.

Visible emissions from these emission sources (**ID Nos. CBT1-ES-210, CBT1-ES-211 through CBT1-ES-216, CBT1-TS1, CBT1-CBS-1, CBT1-CBS-2, CBT1-CBS-3, CBT1-CBS-6A, CBT2-ES-220, CBT2-ES-221 through CBT2-ES-226, CBT2-TS2, CBT2-CBS-7, CBT2-CBS-8, BO02, BB01-K9-1, BB02-L9-1, BB03-M9-1, BB04-P9-1, BB05-Q9-1, BB06-R9-1, BB06A-V9-1, BB07-AE8-1, BB08-CE8-1, K8-1, K8-2, BE7-1, BE7-2, PDS-2, FABR-G18, FABR-G25, EBP-W27, EBP-CAL1, CAL2, LE60, LE61, Q64, P63, HE63, KE63, Q66, WX66, FE66, ME69, AE71, DE71, UE70, TL07, TL08, TL09, TL10, TR01-F67, TR01-F69, TR01-AE63, RG800, RG801, RG802, RG803, RG804, RG805, MG1, QE01 and QE03**) shall not be more than 20 percent opacity when averaged over a six-minute period. However, six-minute averaging periods may exceed 20 percent not more than once in any hour and not more than four times in any 24-hour period. In no event shall the six-minute average exceed 87 percent opacity.

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

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

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

- c. To assure compliance, once a week the Permittee shall observe the emission points of these sources (**ID Nos. CBT1-ES-210, CBT1-ES-211 through CBT1-ES-216, CBT1-TS1, CBT1-CBS-1, CBT1-CBS-2, CBT1-CBS-3, CBT1-CBS-6A, CBT2-ES-220, CBT2-ES-221 through CBT2-ES-226, CBT2-TS2, CBT2-CBS-7, CBT2-CBS-8, BO02, BB01-K9-1, BB02-L9-1, BB03-M9-1, BB04-P9-1, BB05-Q9-1, BB06-R9-1, BB06A-V9-1, BB07-AE8-1, BB08-CE8-1, K8-1, K8-2, BE7-1, BE7-2, PDS-2, FABR-G18, FABR-G25, EBP-W27, EBP-CAL1, CAL2, LE60, LE61, Q64, P63, HE63, KE63, Q66, WX66, FE66, ME69, AE71, DE71, UE70, TL07, TL08, TL09, TL10, TR01-F67, TR01-F69, TR01-AE63, RG800, RG801, RG802, RG803, RG804, RG805, MG1, QE01 and QE03**) for any visible emissions above normal. The weekly observation must be made for each week of the calendar year period to ensure compliance with this requirement. If visible emissions from these sources are observed to be above normal, the Permittee shall either:
- i. take appropriate action to correct the above-normal emissions as soon as practicable and within the monitoring period and record the action taken as provided in the recordkeeping requirements below, or
 - ii. demonstrate that the percent opacity from the emission points of the emission source in accordance with 15A NCAC 02D .2610 (Method 9) for 12 minutes is below the limit given in Section 2.1 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 02D .0521.

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

The Permittee shall be deemed in noncompliance with 15A NCAC 02D .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. Three hundred and twenty-two (322) tire curing presses (ID Nos. GTS-CP-001 through GTS-CP-322) Seven fully automated tire/mold release-lube (green tire spray) operations booths (ID Nos. GTS-GT-S1 through GTS-GT-S7) Four cementing Rubber Extrusion Lines/Tubers Nos. 3, 4, 5, and 6 (ID Nos. TL03 through TL06)**

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	(ID Nos. GTS-CP-001 through GTS-CP-322, and GTS-GT-S1 through GTS-GT-S7 only) Less than 1.2 grams VOC per tire sprayed for each month	15A NCAC 02D .0524 <u>(40 CFR 60, Subpart BBB)</u>
	(ID Nos. TL03 through TL06 only) Less than 10 grams VOC per tire cemented for each month	
Volatile organic compounds	(ID Nos. GTS-CP-001 through GTS-CP-322 only) See Section 2.2 B.1	15A NCAC 02D .0530

1. 15A NCAC 02D .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 02D .0524, "New Source Performance Standards" (NSPS) as promulgated in 40 CFR Part 60 Subpart BBB, including Subpart A "General Provisions."

Emission Limitations [15A NCAC 02D .0524]

- b. For each tread end cementing operation (**ID Nos. TL03 through TL06**) the Permittee shall discharge no more than 10 grams of VOC per tire cemented for each month.
- c. For each manual green tire spraying operation and automatic operations booths where only water-based sprays are used (**ID Nos. GTS-CP-001 through GTS-CP-322 and through GTS-GT-S7**), the Permittee shall discharge no more than 1.2 grams of VOC per tire sprayed with an inside green tire spray for each month.

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

- d. The Permittee shall determine compliance with the tread end cementing operation (**ID Nos. TL03 through TL06**) standard according to 40 CFR 60.543(d), as follows:
 - i. Determine the density and weight fraction of VOC in the cement using Method 24.
 - ii. Calculate the total mass of VOC used at the affected facilities for each calendar month according to the following equation:

$$M_o = \sum_i L_{c_i} D_{c_i} W_{c_i}$$

Where,

M_o = total mass of VOC used at the affected facilities during the previous calendar month;

i = each cement used;

L_c = volume of cement used;

D_c = density of cement used; and

W_c = weight fraction of VOC used (as determined above).

- iii. Determine the number of tread or combined tread/sidewall components that receive an application of tread end cement during the previous calendar month (T_o).
- iv. Calculate the mass of VOC used/emitted per tire cemented during the previous calendar month according to the following equation:

$$G = \frac{M_o}{T_o}$$

The Permittee will be deemed in noncompliance with 15A NCAC 02D .0524 if the required monitoring/recordkeeping is not completed, or if the VOC emission rate exceeds the limit in Section 2.1.D.1.b. of this permit.

- e. The Permittee is complying with the green tire spraying operations (**ID Nos. GTS-CP-001 through GTS-CP-322 and GTS-GT-S1 through GTS-GT-S7**) standard by either using water-based sprays containing less than 1.0 percent VOC by weight or by complying with the monthly performance test requirements listed in 60.543(d).
 - i. If using water-based spray less than 1.0 percent VOC by weight, Pursuant to 40 CFR Part 60.543(b)(4), the Permittee shall submit to the Regional Supervisor, DAQ, **within 60 days initially and annually thereafter**, the formulation data or results of Method 24 analysis to verify the VOC content of each green tire spray material, provided that the spraying formulation has not changed during the previous 12 months. If the spray material formulation changes, the formulation data or Method 24 analysis of the new spray shall be conducted to determine the VOC content of the spray and reported within 30 days as required under 40 CFR Part 60.546(j). The Permittee will be deemed in noncompliance with 15A NCAC 02D .0524 if the required monitoring is not completed, or if the VOC concentration exceeds the limit in Section 2.1.D.1.c. of this permit.
[40 CFR § 60.543(b)(4)]
 - ii. If using water-based spray containing greater than 1.0 percent VOC by weight or more (inside and/or outside green tire spray operations) that do not use a VOC emission reduction system, the owner or operator shall use the following procedure to determine compliance with the VOC emission per tire limit specified under §60.542(a)(5)(i) and as listed in condition 2.1.D.1.c of this permit.
 - (1) Determine the density and weight fraction VOC as specified under paragraph (c)(1) of 40 CFR Part 60.543.
 - (2) Calculate the total mass of VOC used at the affected facility for the month (M_o) as specified

under paragraph (c)(2) 40 CFR Part 60.543.

- (3) Determine the total number of tires cemented or sprayed at the affected facility for the month (To) by the following procedure:
 - (i) For a trend end cementing operation, To equals the number of tread or combined tread/sidewall components that receive an application of tread end cement for the month.
 - (ii) For a green tire spraying operation that uses water-based inside green tire sprays, To equals the number of green tires that receive an application of water-based inside green tire spray for the month.
- [40 CFR § 60.543(d)(3)]
- (4) Calculate the mass of VOC used per tire cemented or sprayed at the affected facility for the month (G): [40 CFR § 60.543(d)(4)]

$$G = \frac{M_o}{T_o}$$

- (5) Calculate the mass of VOC emitted per tire cemented or sprayed at the affected facility for the month (N): [40 CFR § 60.543(d)(5)]
- N = G

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

- f. For Subpart BBB-affected equipment that has been authorized for construction, including tubers and associated tread end cementing operation (**ID No. TL06**) and automatic green tire sprays (**ID Nos. GTS-GT-S4 and GTS-GT-S7**) the Permittee is required to NOTIFY the Regional Supervisor, DAQ, in WRITING, of the following:
 - i. the date construction (40 CFR 60.7) or reconstruction (40 CFR 60.15) of an affected facility is commenced, postmarked no later than 30 days after such date; and
 - ii. the actual date of initial start-up of an affected facility, postmarked within 15 days after such date.
- g. If complying with condition 2.1.D.1.e.i, pursuant to §60.546(j), the owner or operator of each tread end cementing operation and each green tire spraying (inside and/or outside) operation using water-based sprays containing less than 1.0 percent, by weight, of VOC as described in §60.543(b)(1) shall furnish the Administrator, within 60 days initially and annually thereafter, formulation data or Method 24 results to verify the VOC content of the water-based sprays in use. If the spray formulation changes before the end of the 12-month period, formulation data or Method 24 results to verify the VOC content of the spray shall be reported within 30 days of the change.
- h. If complying with condition 2.1.D.1.e.ii, pursuant to §60.546(c)(2), Each owner or operator subject to the provisions of this subpart shall report the results of all initial performance tests, as required under §60.8(a), and the results of the performance tests required under §60.543 (b)(2) and (b)(3). The following data shall be included in the report for each of the above performance tests:

For each affected facility that seeks to comply with a VOC emission limit per tire or per bead specified under §60.542(a) without the use of a VOC emission reduction system: the mass of VOC used (Mo), the number of tires cemented or sprayed (To) and the mass of VOC emitted per tire cemented or sprayed (N).

- i. In addition to any other reporting required by 40 CFR 60.546 or notification requirements to the EPA, the Permittee shall submit a semiannual summary report, acceptable to the Regional Air Quality Supervisor, of monitoring and recordkeeping activities postmarked on or before January 30 of each calendar year for the preceding six-month period between July and December, and on or before July 30 of each calendar year for months between January and June. The report shall contain the 12-month rolling VOC emissions for each of the six consecutive 12-month periods during the calendar half and the monthly VOC emission totals for the previous 17 months.

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

A. Facility-wide affected sources

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

Regulated Pollutant	Limits/Standards	Applicable Regulation
Odorous emissions	State-enforceable only Odorous emissions must be controlled	15A NCAC 02D .1806
Hazardous air pollutants	National Emission Standards for Hazardous Air Pollutants from Rubber Tire Manufacturing	15A NCAC 02Q .1111 (40 CFR 63, Subpart XXXX)

1. Reserved.

2. Reserved.

State-Enforceable Only

3. **15A NCAC 02D .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.

4. Reserved.

5. **15A NCAC 02D .1111: MAXIMUM ACHIEVABLE CONTROL TECHNOLOGY (40 CFR 63, Subpart XXXX - Rubber Tire Manufacturing)**

- a. Emissions of each HAP listed below shall not exceed 2 pounds per ton (lbs/ton) of total cements and solvents used at the tire production affected source, as it is defined in 40 CFR 63.5982(b)(1):

<u>HAP Name</u>	<u>CAS No.</u>
Formaldehyde	50000
Ethyl carbamate (Urethane)	51796
2-Acetylaminofluorene	53963
Carbon tetrachloride	56235
1,1-Dimethyl hydrazine	57147
beta-Propiolactone	57578
Lindane (all isomers)	58899
N-Nitrosomorpholine	59892
Dimethyl aminoazobenzene	60117
N-Nitrosodimethylamine	62759
Diethyl sulfate	64675
Chloroform	67663
Hexachloroethane	67721
Benzene (including benzene from gasoline)	71432

Vinyl chloride	75014
Acetaldehyde	75070
Methylene chloride (Dichloromethane)	75092
Ethylene oxide	75218
1,2-Propylenimine (2-Methyl aziridine)	75558
Propylene oxide	75569
Dimethyl sulfate	77781
Acrylamide	79061
Dimethyl carbamoyl chloride	79447
2-Nitropropane	79469
2,4,6-Trichlorophenol	88062
3,3-Dichlorobenzidene	91941
4-Aminobiphenyl	92671
Benzidine	92875
o-Toluidine	95534
2,4-Toluene diamine	95807
1,2-Dibromo-3-chloropropane	96128
Ethylene thiourea	96457
Benzotrichloride	98077
4,4-Methylene bis(2-chloroaniline)	101144
4,4-Methylenedianiline	101779
1,4-Dichlorobenzene(p)	106467
Epichlorohydrin (1-Chloro-2,3-epoxypropane)	106898
Ethylene dibromide (Dibromoethane)	106934
1,3-Butadiene	106990
Ethylene dichloride (1,2-Dichloroethane)	107062
Acrylonitrile	107131
Chloromethyl methyl ether	107302
Bis(2-ethylhexyl)phthalate (DEHP)	117817
Hexachlorobenzene	118741
3,3-Dimethoxybenzidine	119904
3,3-Dimethyl benzidine	119937
1,2-Diphenylhydrazine	122667
1,4-Dioxane (1,4-Diethyleneoxide)	123911
Tetrachloroethylene (Perchloroethylene)	127184
Ethyl acrylate	140885
Hydrazine	302012
1,3-Dichloropropene	542756

[Table 1 of MACT Subpart XXXX, Option 1]

- b. Emissions of each HAP not listed in Section 2.2 A. 5. a. of this permit must not exceed 20 pounds per ton (lbs/ton) of total cements and solvents used at the tire production affected source.
[Table 1 of MACT Subpart XXXX, Option 1]
- c. Pursuant to 40 CFR 63.5985 (“Purchase Alternative”), the Permittee shall only use cements and solvents that, as purchased, contain no more HAP than allowed in Section 2.2. 5.a. or b. of this permit.
[40 CFR §63.5985(a)]

Monitoring/Recordkeeping [40 CFR 63.5994(a)-(b)(1), 63.6003(a), 63.6004(a), 63.6004(c)]

- d. The Permittee shall maintain the following records:
 - i. An updated list of each cement and solvent as purchased and the manufacturer or supplier of each;
 - ii. A record of the concentration of each HAP in each affected solvent and cement. The HAP concentration shall be determined using EPA Method 311 (40 CFR 63, Appendix A) or an alternative approved method, including but not limited to obtaining appropriate Material Safety Data Sheets (MSDS).

In accordance with 40 CFR 63.10(b)(10), all records shall be maintained for a period of five years and, at a minimum, the most recent two years of data shall be retained on-site. If the above records are not retained, or if the HAP concentration of any solvent or cement exceeds a limit pursuant to Section 2.2 A.5.a or b above, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .1111.

Reporting [40 CFR 63.6004(b), 63.6004(c)(3), 63.6010(c), 63.6010(f)]

- e. The Permittee shall submit an annual summary report, acceptable to the Regional Air Quality Supervisor, of monitoring and recordkeeping activities postmarked on or before January 30 for the preceding calendar year. The report shall include the following information:
 - i. Identification that the Permittee has chosen the “HAP Constituent” emission limit option pursuant to 40 CFR 63.5984;
 - ii. Identification that the Permittee has chosen the “Purchase Alternative” compliance option pursuant to 40 CFR 63.5985(a);
 - iii. Identification of each new cement and solvent used at the facility that was not previously identified on the list of affected materials;
 - iv. A statement certifying that, as purchased, each cement and solvent used at the facility during the reporting period met the emission limits in Section 2.2 A.5.a and b above.
 - v. Identification of any deviation from the emissions limitations in Section 2.2 A.5.a or b above;
 - vi. If there were no deviations from the emissions limitations in Section 2.2 A.5.a or b above, include a statement to that effect; and
 - vii. Statement by a Responsible Official, with that official’s name, title, and signature certifying the accuracy of the content of the report.

B. Rubber Mixing, and Curing Operations with Silica Formulations

- Banbury Mixer #1 (ID No. BB01-K9-1) with associated bagfilter (ID No. DC-13), And/Or in series with RTO (RTO-1) And/Or with RTO (RTO-2)
- Banbury Mixer #2 (ID No. BB02-L9-1) with associated bagfilter (ID No. DC-14), And/Or in series with RTO (RTO-1) And/Or with RTO (RTO-2)
- Banbury Mixer #3 (ID No. BB03-M9-1) with associated bagfilter (ID No. DC-15), And/Or in series with RTO (RTO-1) And/Or with RTO (RTO-2)
- Banbury mixer #6A (ID No. BB06A-V9-1) with associated bagfilter (ID No. DC-19) and regenerative thermal oxidizer (ID No. RTO-1), And/Or with RTO (RTO-2)
- Banbury mixer #7 (ID No. BB07-AE8-1) with associated bagfilter (ID No. DC-20) and regenerative thermal oxidizer (ID No. RTO-1) And/Or with RTO (RTO-2), and
- Three hundred and twenty-two tire curing presses (ID Nos. GTS-CP-01 through GTS-CP-322),
- One Banbury mixer #8 (ID No. BB08-CE8-1) with associated bagfilter (ID No. DC-21) and regenerative thermal oxidizer (ID No. RTO-1) And/Or with RTO (RTO-2)

1. 15A NCAC 02D .0530: PREVENTION OF SIGNIFICANT DETERIORATION

- a. Emissions of VOCs resulting from the use of a coupling agent in any affected Banbury mixer (ID Nos. BB06A-V9-1, BB07-AE8-1, or BB08-CE8-1) shall not exceed 13.2 pounds per ton of rubber compound processed.

- b. Except as provided in ii. below, the Permittee shall control VOC emissions from the affected Banbury mixers (ID Nos. **BB06A-V9-1, and/or BB07-AE8-1, and BB08-CE8-1**) using the regenerative thermal oxidizer (ID No. **RTO-1 and/or RTO-2**).
 - i. Use of the regenerative thermal oxidizer is required whenever one or more of the affected mixers is being used to mix rubber formulations with an organic coupling agent resulting in an uncontrolled emission rate greater than the limit in Section 2.2.B.1.a above.
 - ii. Use of the regenerative thermal oxidizer is not required when none of the affected mixers is being used to mix rubber formulations with an organic coupling agent resulting in an uncontrolled emission rate greater than the limit in Section 2.2.B.1.a above.
 - iii. To remain within the design limits of the RTO, the Permittee may use the coupling agent resulting in an uncontrolled emission rate greater than the limit in 2.2 B. 1 .a. above in only two Banbury mixers at a time. The Permittee shall maintain the 3-hour **rolling** average combustion temperature of the regenerative thermal oxidizer (ID No. RTO-1) at or above 1,630 degrees Fahrenheit when use of the control device is required. **The Permittee shall maintain the 3-hour rolling average combustion temperature of the regenerative thermal oxidizer (ID No. RTO-2) at or above 1,515 degrees Fahrenheit when use of the control device is required. The 3-hour rolling averages for each RTO shall be calculated using a minimum of one (1) data point every 15-minutes period when the use of the control device is required. Each 15-minutes data point shall be calculated by averaging all the valid data values recorded by the continuous monitoring system (CMS) for that 15-minutes period.**

The Permittee shall be deemed in non-compliance with 15A NCAC 02D .0530 if the control devices are not operated as required above.

- c. The Permittee shall utilize best work practices to limit VOC emissions from the tire curing operations (**ID Nos. GTS-CP-01 through GTS-CP-322**), as provided in Section 2.2.A.1 above.

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

- d. The Permittee may revise the control device operating parameter limitation established in Section 2.2.B.1.b above by conducting a compliance stack test according to General Condition JJ and the applicable procedures of Method 25A of 40 CFR 60, Appendix A, or as otherwise approved by NC DAQ in the test protocol. Prior to changing the operating limitation, the Permittee shall apply for and obtain a permit modification. Such modification may be made by Administrative Amendment to the Title V air quality permit.
- e. 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 2.2 B.1.a above, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .0530.

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

- f. The Permittee shall create and maintain a record identifying each rubber formulation processed at the facility that uses an organic coupling agent. In addition to identifying the rubber formulation, the record shall include the following:
 - i. The uncontrolled VOC emission rate associated with processing the rubber formulation (in lbs/ton of rubber compound processed);
 - ii. Indication of whether use of the regenerative thermal oxidizer is required when processing the rubber formulation as provided in Section 2.2.B.1.b.i above; and
 - iii. The controlled VOC emission rate associated with processing the rubber formulation (in lbs/ton of rubber compound processed).

The required records shall be maintained in a log (written or electronic format) on-site and made available to an authorized representative upon request. The record shall be updated to include any new, affected rubber formulations processed at the facility. The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0530 if the records are not updated or maintained, or if the Permittee processes a rubber

formulation at the facility with a controlled VOC emission rate that exceeds the limit in Section 2.2.B.1.a above.

- g. The Permittee shall install, operate, and maintain a continuous monitoring system (CMS) to measure and record the combustion chamber temperature of the regenerative thermal oxidizers (**ID No. RTO-1 and/or RTO-2**). The CMS shall be operated whenever use of either regenerative thermal oxidizer is required pursuant to Section 2.2.B.1.b.i above. The CMS shall meet the following requirements:
 - i. The monitor shall be located in a position that provides a representative temperature; and
 - ii. The temperature sensors must have a minimum measurement sensitivity of 1.0 percent of the temperature value (relative to degrees Celsius).

The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0530 if the CMS is not installed, operated, or maintained as required above, if records of the monitored temperatures are not created and retained, or if the 3-hour average temperature is less than the limit provided in Section 2.2.B.1.b of this permit.

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

- h. The Permittee shall submit a semiannual summary report, acceptable to the Regional Air Quality Supervisor, of monitoring and recordkeeping activities postmarked on or before January 30 of each calendar year for the preceding six-month period between July and December and July 30 of each calendar year for the preceding six-month period between January and June. The report shall contain the following information:
 - i. Identify any new rubber formulations processed at this facility and added to the record required in Section 2.2.B.1.f above, including the associated controlled and uncontrolled VOC emission rate;
 - ii. Identify each period during which a rubber formulation identified in Section 2.2.B.1.b.i above was either:
 - A. Processed in a Banbury mixer without operating either regenerative thermal oxidizer (**ID No. RTO-1 or RTO-2**) to control associated VOC emissions; or
 - B. The 3-hour average temperature of either regenerative thermal oxidizer (**ID No. RTO-1 or RTO-2**) was less than the limit Section 2.2.B.1.b above.
 - iii. Each instance during which the Permittee does not meet the VOC work practice standard pursuant to Section 2.2.A.1 above.
 - iv. All instances of deviations from the requirements of this permit must be clearly identified.

2. 15A NCAC 02D .0530: PREVENTION OF SIGNIFICANT DETERIORATION

- a. Emissions of VOCs resulting from the use of a coupling agent in any **Banbury Mixer #1, #2 and #3 (ID Nos. BB01-K9-1, BB02-L9-1 and BB03-M9-1)** shall not exceed **2.49 pounds per ton of rubber** compound mixed.
- b. Except as provided in ii. below, the Permittee shall control VOC emissions from the **Banbury Mixer #1, #2 and #3 (ID Nos. BB01-K9-1, BB02-L9-1 and BB03-M9-1)** using the regenerative thermal oxidizers RTO (**ID Nos. RTO-1 and/or RTO-2**).
 - i. Use of the regenerative thermal oxidizer is required whenever one or more of the mixers is being used to mix rubber formulations with any coupling agent(s) resulting in an uncontrolled emission rate **equal or greater than** the limit in Section 2.2.B.2. a., above.
 - ii. Use of the regenerative thermal oxidizer is not required when none of the affected mixers is being used to mix rubber formulations with any coupling agent resulting in an uncontrolled emission rate below the limit in Section 2.2.B.2. a., above.
 - iii. The Permittee shall maintain the 3-hour **rolling** average combustion temperature of the regenerative thermal oxidizers RTOs (ID Nos. **RTO-1 or RTO-2**) at or above **the minimum temperatures stated in Section 2.2 B.1. b.**, when use of the control device is required. This minimum level of operation of the regenerative thermal oxidizers RTOs (ID Nos. **RTO-1 and RTO-2**) will be established during a performance test for both the RTOs (ID Nos. **RTO-1 AND RTO-2**), as stated in Section 2.2. B. 2. c., of the permit, below.

The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0530 if the emissions from **Banbury Mixer #1, #2 and #3 (ID Nos. BB01-K9-1, BB02-L9-1 and BB03-M9-1) are not controlled by a regenerative thermal oxidizers RTOs (ID Nos. RTO-1 or RTO-2)** while using a coupling agent **Or** if the RTOs (**ID Nos. RTO-1 or RTO-2**) are not operated as required above.

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

- c.
 - i. The Permittee must conduct a performance test for regenerative thermal oxidizer (RTO) (ID No. RTO-1) before it is used as a control device for the control of VOC emissions from the Banbury Mixer #1, #2 and #3 (ID Nos. BB01-K9-1, BB02-L9-1 and BB03-M9-1). The Permittee must conduct a performance test for regenerative thermal oxidizer (RTO) (ID No. RTO-2) for the Banbury Mixers #1, #2, #3, #6A, #7, and #8 (ID Nos. BB01-K9-1, BB02-L9-1 and BB03-M9-1 BB06A-V9-1, BB07-AE8-1, or BB08-CE8-1) within 180 days of the processing coupling agent through any of the mixers and routing them to RTO-2.
 - ii. The performance tests shall be done to achieve a minimum VOC destruction removal efficiency (DRE) of 98.0 % by weight for both the regenerative thermal oxidizers (ID Nos. RTO-1 and/or RTO-2).
 - iii. The minimum level of operation of the regenerative thermal oxidizers RTOs (ID Nos. RTO-1 and/or RTO-2) shall be established during the performance tests.
 - iv. 60 days prior to the performance tests for both the regenerative thermal oxidizers (RTO) (ID Nos. RTO-1 and/or RTO-2), the Permittee must apply to SSCB (Stationary Source Compliance Branch) of DAQ for approval of testing protocols for the performance tests.
 - v. Within 15 days after the approval of the performance tests results by DAQ, the Permittee shall apply for a permit modification by Administrative Amendment to the Title V Air Quality Permit to incorporate the regenerative thermal oxidizers (RTO) (ID Nos. RTO-1 and/or RTO-2) operating parameters into the permit.
- d. The Permittee may revise the control device operating parameter limitation established in Section 2.2.B. 2. b., above by conducting a compliance stack test according to General Condition JJ and approved NC DAQ i test protocols.
- e. 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 2.2 B. 2. a, above, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .0530.

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

- f. The Permittee shall create and maintain a record identifying each rubber formulation processed at the facility that uses a coupling agent. In addition to identifying the rubber formulation, the record shall include the following:
 - i. The uncontrolled VOC emission rate associated with processing the rubber formulation (in lbs/ton of rubber compound processed);
 - ii. Indication of whether use of the regenerative thermal oxidizer is required when processing the rubber formulation as provided in Section 2.2 B. 2. a, above; and
 - iii. The controlled VOC emission rate associated with processing the rubber formulation (in lbs/ton of rubber compound processed).

The required records shall be maintained in a log (written or electronic format) on-site and made available to an authorized representative upon request. The record shall be updated to include any new, affected rubber formulations processed at the facility. The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0530 if the records are not updated or maintained, or if the Permittee processes a rubber formulation at the facility with a controlled VOC emission rate that exceeds the limit in Section 2.2 B.2. a, above.

- g. The Permittee shall install, operate, and maintain a continuous monitoring system (CMS) to measure and record the combustion chamber temperature of the regenerative thermal oxidizers (ID Nos. **RTO-1 and/or RTO-2**). The CMS shall be operated whenever use of the regenerative

thermal oxidizer is required pursuant to Section 2.2.B.2.b.i., above. The CMS shall meet the following requirements:

- i. The monitor shall be located in a position that provides a representative temperature;
- ii. The temperature sensors must have a minimum measurement sensitivity of 1.0 percent of the temperature value (relative to degrees Celsius) and
- iii. The minimum data requirement for calculating the 3-hour rolling average is one (1) data point every 15-minutes period when the thermal oxidizer is required pursuant to Section 2.2. B. 2. b. i., above. Each 15-minutes data point shall be calculated by averaging all the valid data values recorded by the CMS for that 15-minutes period.

The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0530 if the CMS is not installed, operated, or maintained as required above, if records of the monitored temperatures are not created and retained, or if the 3-hour rolling average temperature is less than the limit provided in Section 2.2. B. 2. b., of this permit.

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

- h. The Permittee shall submit a semiannual summary report, acceptable to the Regional Air Quality Supervisor, of monitoring and recordkeeping activities postmarked on or before January 30 of each calendar year for the preceding six-month period between July and December and July 30 of each calendar year for the preceding six-month period between January and June. The report shall contain the following information:
 - i. Identify any new rubber formulations processed at this facility and added to the record required in Section 2.2.B. 2. F., above, including the associated controlled and uncontrolled VOC emission rate;
 - ii. Identify each period during which a rubber formulation identified in Section 2.2.B. 2. f., above was either:
 - A. Processed in a Banbury mixer without operating the regenerative thermal oxidizers (**ID Nos. RTO-1 and/or RTO-2**) to control associated VOC emissions; or
 - B. The 3-hour average temperature of the regenerative thermal oxidizers (**ID Nos. RTO-1 and/or RTO-2**) was less than the limit Section 2.2.B. 2. b., above.
 - iii. All instances of deviations from the requirements of this permit must be clearly identified.

SECTION 2.3 – Permit Shield for Non-applicable Requirements

- A. **One Carbon Black Tower 1 bucket elevator (ID No. CBT1-ES-210) with associated bin vent filter (ID No. DC-120)**
Six Carbon Black Tower 1 storage bins (ID Nos. CBT1-ES-211 through CBT1-ES-216) with associated bin vent filters (ID Nos. DC-121 through 126)
One Banbury #1 surge bin (ID No. CBT1-CBS-1) with associated bin vent filters (ID Nos. DC-140 through DC-143)
One Banbury #2 surge bin (ID No. CBT1-CBS-2) with associated bin vent filters (ID Nos. DC-144 through DC-147)
One Banbury #3 surge bin (ID No. CBT1-CBS-3) with associated bin vent filters (ID Nos. DC-148 through DC-151)
One Banbury #6A surge bin (ID No. CBT1-CBS-6A) with associated bin vent filters (ID Nos. DC-152 through DC-155)
One Carbon Black Tower 2 bucket elevator (ID No. CBT2-ES-220) with associated bin vent filter (ID No. DC-130)
Six Carbon Black Tower 2 six storage bins (ID Nos. CBT2-ES-221 through CBT2-ES-226) with associated bin vent filters (ID Nos. DC-131 through DC-136)
One Banbury #7 surge bin (ID No. CBT2-CBS-7) with associated bin vent filters (ID Nos. DC-156 through DC-159)

One Banbury #8 surge bin (ID No. CBT2-CBS-8) with associated bin vent filters (ID Nos. DC-160 through DC-164)

One pellet feed system operation (ID No. BO02) including four rubber pellet material systems with associated bagfilters (ID Nos. DC-25 through DC-28)

One Banbury mixer #1 (ID No. BB01-K9-1) with associated bagfilter (ID No. DC-13)

One Banbury mixer #2 (ID No. BB02-L9-1) with associated bagfilter (ID No. DC-14)

One Banbury mixer #3 (ID No. BB03-M9-1) with associated bagfilter (ID No. DC-15)

One Banbury mixer #4 (ID No. BB04-P9-1) with associated bagfilter (ID No. DC-16)

One Banbury mixer #5 (ID No. BB05-Q9-1) with associated bagfilter (ID No. DC-17)

One Banbury mixer #6 (ID No. BB06-R9-1) with associated bagfilter (ID No. DC-18)

One Banbury mixer #6A (ID No. BB06A-V9-1) with associated bagfilter (ID No. DC-19) and regenerative thermal oxidizer (ID No. RTO-1) and/or RTO (RTO-2)

One Banbury mixer #7 (ID No. BB07-AE8-1) with associated bagfilter (ID No. DC-20)

One Banbury mixer #8 (ID No. BB08-CE8-1) with associated bagfilter (ID No. DC-21) and regenerative thermal oxidizer (ID No. RTO-1) and/or RTO (RTO-2)

Two slurry mixers (ID Nos. K8-1 and K8-2) with associated bagfilter (ID No. DC-100)

Two slurry mixers (ID Nos. BE7-1 and BE7-2) with associated bagfilter (ID No. DC-21)

Banbury mixer Nos. 4, 5, 6, 6A, and 7 dump sinks (ID No. PDS-2) with associated bagfilters (ID Nos. DC-172 and 173)

One line vacuum (ID No. FABR-G18) with associated bagfilter (ID No. DC-103)

One windup process (ID No. FABR-G25) with associated bagfilter (ID No. DC-104)

One windup (ID No. EBP-W27) with associated dust collector/cyclone (ID No. DC-106)

Two four-roll calender operations (ID Nos. EBP-CAL1 and CAL2)

One two-roll calender operation (ID No. CAL4)

Two mold cleaner processes (ID Nos. LE60 and LE61) with associated bagfilters (ID Nos. DC-94 and DC-95)

Sidewall grinders SG-101 through SG-105 and SG-201 through SG-206 (ID No. Q64) and SG-106 (ID No. P63) with associated self-induced spray scrubber (ID No. DC-31)

Sidewall grinders SG-300 through SG-306 and FG-317 (ID No. HE63) and SG-308 and SG-317 (ID No. KE63) with associated self-induced spray scrubber (ID No. DC-42)

Force grinders FG-101 through FG-109 and FG-201 through FG-208 (ID No. Q66) with associated self-induced spray scrubber (ID No. DC-48)

Force grinders FG-209 through FG-215 and FG-301 through FG-304 (ID No. WX66) with associated self-induced spray scrubber (ID No. DC-65)

Force grinders FG-305 through FG-316 (ID No. FE66) with associated self-induced spray scrubber (ID No. DC-77)

Force grinders FG-401 through FG-404 (ID No. ME69) with associated self-induced spray scrubber (ID No. DC-165)

Force grinders RG800 through RG805 and associated self-induced scrubber

Run-out grinders RG-500 through RG-507 (ID No. AE71) with associated self-induced spray scrubber (ID No. DC-166)

Run-out grinders RG-600 through RG-607 (ID No. DE71) with associated self-induced spray scrubber (ID No. DC-167)

Run-out grinders RG-700 through RG-704 (ID No. UE70) with associated self-induced spray scrubber (ID No. DC-168)

One Collman run-out grinder (ID No. MG1)

Tire Repair Tables 2 and 3 (ID Nos. TR01-F67 and TR01-F69) with associated dust collector/cyclone (ID No. DC-91)

Tire Repair Table 4 (ID No. TR01-AE63) with associated self-induced spray scrubber (ID No. DC-31)

Facility-wide solvent and cement use (ID No. FWS1)

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

Regulated Pollutant	Limits/Standards	Applicable Regulation
Particulate matter	Compliance Assurance Monitoring (CAM)	15A NCAC 02D .0614
Volatile organic compounds	(ID No. RTO-1 and RTO-2 controlled sources only) Compliance Assurance Monitoring (CAM)	15A NCAC 02D .0614

1. **15A NCAC 02D .0614: COMPLIANCE ASSURANCE MONITORING** - Pursuant to 15A NCAC 02Q .0512(a)(1)(B) “Permit Shield and Application Shield, with the issuance of permits **(00011T37 and 00011T48)**, the following stipulation of non-applicability has been made:
 - a. 15A NCAC 02D .0614 does not apply to the permitted sources listed above because each source’s potential pre-control emissions do not exceed the major source thresholds for that pollutant. [See 40 CFR 64.2(a)(3)].
 - b. 15A NCAC 02D .0614 does not apply to the permitted sources listed above that are controlled by the regenerative thermal oxidizers **(ID Nos. RTO-1 and RTO-2)** because the Permittee is required to install, operate, and maintain a continuous monitoring system for the measurement and recording of combustion chamber temperature that meets the exemption applicability of 40 CFR 64.2(b)(1)(vi).

Therefore, CAM has been determined to not be applicable to these specific sources or their associated control devices as described above.

SECTION 2.4 - Use of projected actual emissions to avoid applicability of PSD

A. All the Affected Sources as identified in application 2600050.08B and application 2600050.16A

1. 15A NCAC 02D. 0530(u): USE OF PROJECTED ACTUAL EMISSIONS TO AVOID APPLICABILITY OF PREVENTION OF SIGNIFICANT DETERIORATION REQUIREMENTS

Pursuant to Application 2600050.08B for the replacement of 61curing presses (collectively listed as ID No. GTS-CP-001 through GTS-CP-322), addition of Force Grinders (ID No. RG 800-805), Gum Roll Calender (ID No. CAL4), and a Collman Grinder (ID No. MG1) the Permittee shall perform the following:

Monitoring/Recordkeeping/Reporting [15A NCAC 02D .0530(u)]

- a. The Permittee shall maintain records of annual emissions in tons per year, on a calendar year basis, related to the modification for 10 years following resumption of regular operations after the change is made.

- b. The Permittee shall submit a report to the director within 60 days after the end of each calendar year during which these records must be generated. The report shall contain the items listed in 40 CFR 51.166(r)(6)(v)(a) through (c).
- c. The Permittee shall make the information documented and maintained under this condition available to the Director or the general public pursuant to the requirements in 40 CFR 70.4(b)(3)(viii).

2. 15A NCAC 02D. 0530(u): USE OF PROJECTED ACTUAL EMISSIONS TO AVOID APPLICABILITY OF PREVENTION OF SIGNIFICANT DETERIORATION REQUIREMENTS

Pursuant to Application 2600050.16A for the new one cold feed quad extruder (ID No. QE01), one bead winder with a small cold feed extruder (ID No. QE03) and one 60-inch mill (QE02), the Permittee shall perform the following:

Monitoring/Recordkeeping/Reporting [15A NCAC 02D .0530(u)]

- a. The Permittee shall maintain records of annual processing of rubber in tons per year, from the cold feed quad extruder (ID No. QE01), on a calendar year basis, related to the modification for 10 years following resumption of regular operations after the change is made.
- b. The Permittee shall submit a report to the director within 60 days after the end of each calendar year during which these records must be generated. The report shall contain the items listed in 40 CFR 51.166(r)(6)(v)(a) through (c).
- c. The Permittee shall make the information documented and maintained under this condition available to the Director or the general public pursuant to the requirements in 40 CFR 70.4(b)(3)(viii).

SECTION 3 - GENERAL CONDITIONS (version 5.2, 04/03/2018)

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

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

1. Terms not otherwise defined in this permit shall have the meaning assigned to such terms as defined in 15A NCAC 02D and 02Q.
2. The terms, conditions, requirements, limitations, and restrictions set forth in this permit are binding and enforceable pursuant to NCGS 143-215.114A and 143-215.114B, including assessment of civil and/or criminal penalties. Any unauthorized deviation from the conditions of this permit may constitute grounds for revocation and/or enforcement action by the DAQ.
3. This permit is not a waiver of or approval of any other Department permits that may be required for other aspects of the facility which are not addressed in this permit.
4. This permit does not relieve the Permittee from liability for harm or injury to human health or welfare, animal or plant life, or property caused by the construction or operation of this permitted facility, or from penalties therefore, nor does it allow the Permittee to cause pollution in contravention of state laws or rules, unless specifically authorized by an order from the North Carolina Environmental Management Commission.
5. Except as identified as state-only requirements in this permit, all terms and conditions contained herein shall be enforceable by the DAQ, the EPA, and citizens of the United States as defined in the Federal Clean Air Act.
6. Any stationary source of air pollution shall not be operated, maintained, or modified without the appropriate and valid permits issued by the DAQ, unless the source is exempted by rule. The DAQ may issue a permit only after it receives reasonable assurance that the installation will not cause air pollution in violation of any of the applicable requirements. A permitted installation may only be operated, maintained, constructed, expanded, or modified in a manner that is consistent with the terms of this permit.

B. Permit Availability [15A NCAC 02Q .0507(k) and .0508(i)(9)(B)]

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

C. **Severability Clause** [15A NCAC 02Q .0508(i)(2)]

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

D. **Submissions** [15A NCAC 02Q .0507(e) and 02Q .0508(i)(16)]

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

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

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

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

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

F. **Circumvention** - STATE ENFORCEABLE ONLY

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

G. **Permit Modifications**

1. Administrative Permit Amendments [15A NCAC 02Q .0514]

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

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

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

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

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

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

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

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

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

H. **Changes Not Requiring Permit Modifications**

1. Reporting Requirements

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

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

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

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

- a. "Section 502(b)(10) changes" means changes that contravene an express permit term or condition. Such changes do not include changes that would violate applicable requirements or contravene federally enforceable permit terms and conditions that are monitoring (including test methods), recordkeeping, reporting, or compliance certification requirements.
 - b. The Permittee may make Section 502(b)(10) changes without having the permit revised if:
 - i. the changes are not a modification under Title I of the Federal Clean Air Act;
 - ii. the changes do not cause the allowable emissions under the permit to be exceeded;
 - iii. the Permittee notifies the Director and EPA with written notification at least seven days before the change is made; and
 - iv. the Permittee shall attach the notice to the relevant permit.
 - c. The written notification shall include:
 - i. a description of the change;
 - ii. the date on which the change will occur;
 - iii. any change in emissions; and
 - iv. any permit term or condition that is no longer applicable as a result of the change.
 - d. Section 502(b)(10) changes shall be made in the permit the next time that the permit is revised or renewed, whichever comes first.
3. Off Permit Changes [15A NCAC 02Q .0523(b)]
The Permittee may make changes in the operation or emissions without revising the permit if:
- a. the change affects only insignificant activities and the activities remain insignificant after the change; or
 - b. the change is not covered under any applicable requirement.
4. Emissions Trading [15A NCAC 02Q .0523(c)]
To the extent that emissions trading is allowed under 15A NCAC 02D, including subsequently adopted maximum achievable control technology standards, emissions trading shall be allowed without permit revision pursuant to 15A NCAC 02Q .0523(c).

I.A **Reporting Requirements for Excess Emissions and Permit Deviations** [15A NCAC 02D .0535(f) and 02Q .0508(f)(2)]
"Excess Emissions" - means an emission rate that exceeds any applicable emission limitation or standard allowed by any rule in Sections .0500, .0900, .1200, or .1400 of Subchapter 02D; or by a permit condition; or that exceeds an emission limit established in a permit issued under 15A NCAC 02Q .0700. (*Note: Definitions of excess emissions under 02D .1110 and 02D .1111 shall apply where defined by rule.*)

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

Excess Emissions

1. If a source is required to report excess emissions under NSPS (15A NCAC 02D .0524), NESHAPS (15A NCAC 02D .1110 or .1111), or the operating permit provides for periodic (e.g., quarterly) reporting of excess emissions, reporting shall be performed as prescribed therein.
2. If the source is not subject to NSPS (15A NCAC 02D .0524), NESHAPS (15A NCAC 02D .1110 or .1111), or these rules do NOT define "excess emissions," the Permittee shall report excess emissions in accordance with 15A NCAC 02D .0535 as follows:
 - a. Pursuant to 15A NCAC 02D .0535, if excess emissions last for more than four hours resulting from a malfunction, a breakdown of process or control equipment, or any other abnormal condition, the owner or operator shall:
 - i. notify the Regional Supervisor or Director of any such occurrence by 9:00 a.m. Eastern Time of the Division's next business day of becoming aware of the occurrence and provide:
 - name and location of the facility;
 - nature and cause of the malfunction or breakdown;
 - time when the malfunction or breakdown is first observed;
 - expected duration; and
 - estimated rate of emissions;
 - ii. notify the Regional Supervisor or Director immediately when corrective measures have been accomplished; and
 - iii. submit to the Regional Supervisor or Director within 15 days a written report as described in 15A NCAC 02D .0535(f)(3).

Permit Deviations

3. Pursuant to 15A NCAC 02Q .0508(f)(2), the Permittee shall report deviations from permit requirements (terms and conditions) as follows:
 - a. Notify the Regional Supervisor or Director of all other deviations from permit requirements not covered under 15A NCAC 02D .0535 quarterly. A written report to the Regional Supervisor shall include the probable cause of such deviation and any corrective actions or preventative actions taken. The responsible official shall certify all deviations from permit requirements.

I.B Other Requirements under 15A NCAC 02D .0535

The Permittee shall comply with all other applicable requirements contained in 15A NCAC 02D .0535, including 15A NCAC 02D .0535(c) as follows:

1. Any excess emissions that do not occur during start-up and shut-down shall be considered a violation of the appropriate rule unless the owner or operator of the sources demonstrates to the Director, that the excess emissions are a result of a malfunction. The Director shall consider, along with any other pertinent information, the criteria contained in 15A NCAC 02D .0535(c)(1) through (7).
2. 15A NCAC 02D .0535(g). Excess emissions during start-up and shut-down shall be considered a violation of the appropriate rule if the owner or operator cannot demonstrate that excess emissions are unavoidable.

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

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

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

K. Permit Renewal [15A NCAC 02Q .0508(e) and 02Q .0513(b)]

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

L. Need to Halt or Reduce Activity Not a Defense [15A NCAC 02Q .0508(i)(4)]

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

M. **Duty to Provide Information (submittal of information)** [15A NCAC 02Q .0508(i)(9)]

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

N. **Duty to Supplement** [15A NCAC 02Q .0507(f)]

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

O. **Retention of Records** [15A NCAC 02Q .0508(f) and 02Q .0508 (l)]

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

P. **Compliance Certification** [15A NCAC 02Q .0508(n)]

The Permittee shall submit to the DAQ and the EPA (Air and EPCRA Enforcement Branch, EPA, Region 4, 61 Forsyth Street SW, Atlanta, GA 30303) postmarked on or before March 1 a compliance certification (for the preceding calendar year) by a responsible official with all federally-enforceable terms and conditions in the permit, including emissions limitations, standards, or work practices. It shall be the responsibility of the current owner to submit a compliance certification for the entire year regardless of who owned the facility during the year. The compliance certification shall comply with additional requirements as may be specified under Sections 114(a)(3) or 504(b) of the Federal Clean Air Act. The compliance certification shall specify:

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

Q. **Certification by Responsible Official** [15A NCAC 02Q .0520]

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

R. **Permit Shield for Applicable Requirements** [15A NCAC 02Q .0512]

1. Compliance with the terms and conditions of this permit shall be deemed compliance with applicable requirements, where such applicable requirements are included and specifically identified in the permit as of the date of permit issuance.
2. A permit shield shall not alter or affect:
 - a. the power of the Commission, Secretary of the Department, or Governor under NCGS 143-215.3(a)(12), or EPA under Section 303 of the Federal Clean Air Act;
 - b. the liability of an owner or operator of a facility for any violation of applicable requirements prior to the effective date of the permit or at the time of permit issuance;
 - c. the applicable requirements under Title IV; or
 - d. the ability of the Director or the EPA under Section 114 of the Federal Clean Air Act to obtain information to determine compliance of the facility with its permit.
3. A permit shield does not apply to any change made at a facility that does not require a permit or permit revision made under 15A NCAC 02Q .0523.
4. A permit shield does not extend to minor permit modifications made under 15A NCAC 02Q .0515.

S. **Termination, Modification, and Revocation of the Permit** [15A NCAC 02Q .0519]

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

1. the information contained in the application or presented in support thereof is determined to be incorrect;

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

T. **Insignificant Activities** [15A NCAC 02Q .0503]

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

U. **Property Rights** [15A NCAC 02Q .0508(i)(8)]

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

V. **Inspection and Entry** [15A NCAC 02Q .0508(l) and NCGS 143-215.3(a)(2)]

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

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

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

W. **Annual Fee Payment** [15A NCAC 02Q .0508(i)(10)]

1. The Permittee shall pay all fees in accordance with 15A NCAC 02Q .0200.
2. Payment of fees may be by check or money order made payable to the N.C. Department of Environmental Quality. Annual permit fee payments shall refer to the permit number.
3. If, within 30 days after being billed, the Permittee fails to pay an annual fee, the Director may initiate action to terminate the permit under 15A NCAC 02Q .0519.

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

The Permittee shall report by **June 30 of each year** the actual emissions of each air pollutant listed in 15A NCAC 02Q .0207(a) from each emission source within the facility during the previous calendar year. The report shall be in or on such form as may be established by the Director. The accuracy of the report shall be certified by a responsible official of the facility.

Y. **Confidential Information** [15A NCAC 02Q .0107 and 02Q. 0508(i)(9)]

Whenever the Permittee submits information under a claim of confidentiality pursuant to 15A NCAC 02Q .0107, the Permittee may also submit a copy of all such information and claim directly to the EPA upon request. All requests for confidentiality must be in accordance with 15A NCAC 02Q .0107.

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

A construction and operating permit shall be obtained by the Permittee for any proposed new or modified facility or emission source which is not exempted from having a permit prior to the beginning of construction or modification, in accordance with all applicable provisions of 15A NCAC 02Q .0100 and .0300.

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

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

BB. **Financial Responsibility and Compliance History** [15A NCAC 02Q .0507(d)(4)]

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

CC. **Refrigerant Requirements (Stratospheric Ozone and Climate Protection)** [15A NCAC 02Q .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 02Q .0508(h)]

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

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

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

FF. **Title IV Allowances** [15A NCAC 02Q .0508(i)(1)]

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

GG. **Air Pollution Emergency Episode** [15A NCAC 02D .0300]

Should the Director of the DAQ declare an Air Pollution Emergency Episode, the Permittee will be required to operate in accordance with the Permittee's previously approved Emission Reduction Plan or, in the absence of an approved plan, with the appropriate requirements specified in 15A NCAC 02D .0300.

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

The Director of the DAQ may require the Permittee to register a source of air pollution. If the Permittee is required to register a source of air pollution, this registration and required information will be in accordance with 15A NCAC 02D .0202(b).

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

In addition to any control or manner of operation necessary to meet emission standards specified in this permit, any source of air pollution shall be operated with such control or in such manner that the source shall not cause the ambient air quality standards in 15A NCAC 02D .0400 to be exceeded at any point beyond the premises on which the source is located. When controls more stringent than named in the applicable emission standards in this permit are required to prevent violation of the ambient air quality standards or are required to create an offset, the permit shall contain a condition requiring these controls.

JJ. **General Emissions Testing and Reporting Requirements** [15A NCAC 02Q .0508(i)(16)]

Emission compliance testing shall be by the procedures of Section .2600, except as may be otherwise required in Rules .0524, .0912, .1110, .1111, or .1415 of Subchapter 02D. If emissions testing is required by this permit or the DAQ or if the Permittee submits emissions testing to the DAQ to demonstrate compliance, the Permittee shall perform such testing in accordance with 15A NCAC 02D .2600 and follow the procedures outlined below:

1. The owner or operator of the source shall arrange for air emission testing protocols to be provided to the Director prior to air pollution testing. Testing protocols are not required to be pre-approved by the Director prior to air

pollution testing. The Director shall review air emission testing protocols for pre-approval prior to testing if requested by the owner or operator at least **45 days** before conducting the test.

2. Any person proposing to conduct an emissions test to demonstrate compliance with an applicable standard shall notify the Director at least **15 days** before beginning the test so that the Director may at his option observe the test.
3. The owner or operator of the source shall arrange for controlling and measuring the production rates during the period of air testing. The owner or operator of the source shall ensure that the equipment or process being tested is operated at the production rate that best fulfills the purpose of the test. The individual conducting the emission test shall describe the procedures used to obtain accurate process data and include in the test report the average production rates determined during each testing period.
4. Two copies of the final air emission test report shall be submitted to the Director not later than **30 days** after sample collection unless otherwise specified in the specific conditions. The owner or operator may request an extension to submit the final test report. The Director shall approve an extension request if he finds that the extension request is a result of actions beyond the control of the owner or operator.
 - a. The Director shall make the final determination regarding any testing procedure deviation and the validity of the compliance test. The Director may:
 - i. Allow deviations from a method specified under a rule in this Section if the owner or operator of the source being tested demonstrates to the satisfaction of the Director that the specified method is inappropriate for the source being tested.
 - ii. Prescribe alternate test procedures on an individual basis when he finds that the alternative method is necessary to secure more reliable test data.
 - iii. Prescribe or approve methods on an individual basis for sources or pollutants for which no test method is specified in this Section if the methods can be demonstrated to determine compliance of permitted emission sources or pollutants.
 - b. The Director may authorize the Division of Air Quality to conduct independent tests of any source subject to a rule in this Subchapter to determine the compliance status of that source or to verify any test data submitted relating to that source. Any test conducted by the Division of Air Quality using the appropriate testing procedures described in Section 02D .2600 has precedence over all other tests.

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

1. A permit shall be reopened and revised under the following circumstances:
 - a. additional applicable requirements become applicable to a facility with remaining permit term of three or more years;
 - b. additional requirements (including excess emission requirements) become applicable to a source covered by Title IV;
 - c. the Director or EPA finds that the permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the permit; or
 - d. the Director or EPA determines that the permit must be revised or revoked to assure compliance with the applicable requirements.
2. Any permit reopening shall be completed or a revised permit issued within 18 months after the applicable requirement is promulgated. No reopening is required if the effective date of the requirement is after the expiration of the permit term unless the term of the permit was extended pursuant to 15A NCAC 02Q .0513(c).
3. Except for the state-enforceable only portion of the permit, the procedures set out in 15A NCAC 02Q .0507, .0521, or .0522 shall be followed to reissue the permit. If the State-enforceable only portion of the permit is reopened, the procedures in 15A NCAC 02Q .0300 shall be followed. The proceedings shall affect only those parts of the permit for which cause to reopen exists.
4. The Director shall notify the Permittee at least 60 days in advance of the date that the permit is to be reopened, except in cases of imminent threat to public health or safety the notification period may be less than 60 days.
5. Within 90 days, or 180 days if the EPA extends the response period, after receiving notification from the EPA that a permit needs to be terminated, modified, or revoked and reissued, the Director shall send to the EPA a proposed determination of termination, modification, or revocation and reissuance, as appropriate.

LL. Reporting Requirements for Non-Operating Equipment [15A NCAC 02Q .0508(i)(16)]

The Permittee shall maintain a record of operation for permitted equipment noting whenever the equipment is taken from and placed into operation. When permitted equipment is not in operation, the requirements for testing, monitoring, and recordkeeping are suspended until operation resumes.

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

As required by 15A NCAC 02D .0540 "Particulates from Fugitive Dust Emission Sources," the Permittee shall not cause or allow fugitive dust emissions to cause or contribute to substantive complaints or excess visible emissions beyond the

property boundary. If substantive complaints or excessive fugitive dust emissions from the facility are observed beyond the property boundaries for six minutes in any one hour (using Reference Method 22 in 40 CFR, Appendix A), the owner or operator may be required to submit a fugitive dust plan as described in 02D .0540(f).

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

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

1. For modifications made pursuant to 15A NCAC 02Q .0501(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 02Q .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 02Q .0523(a)(1)(C), the Permittee shall notify the Director and EPA (EPA - Air Planning Branch, 61 Forsyth Street SW, Atlanta, GA 30303) in writing at least seven days before the change is made. The written notification shall include:
 - a. a description of the change at the facility;
 - b. the date on which the change will occur;
 - c. any change in emissions; and
 - d. any permit term or condition that is no longer applicable as a result of the change.

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

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

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

ATTACHMENT

List of Acronyms

AOS	Alternate Operating Scenario
BACT	Best Available Control Technology
Btu	British thermal unit
CAA	Clean Air Act
CAIR	Clean Air Interstate Rule
CEM	Continuous Emission Monitor
CFR	Code of Federal Regulations
DAQ	Division of Air Quality
DEQ	Department of Environmental Quality
EMC	Environmental Management Commission
EPA	Environmental Protection Agency
FR	Federal Register
GACT	Generally Available Control Technology
HAP	Hazardous Air Pollutant
MACT	Maximum Achievable Control Technology
NAA	Non-Attainment Area
NCAC	North Carolina Administrative Code
NCGS	North Carolina General Statutes
NESHAP	National Emission Standards for Hazardous Air Pollutants
NO_x	Nitrogen Oxides
NSPS	New Source Performance Standard
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
RACT	Reasonably Available Control Technology
SIC	Standard Industrial Classification
SIP	State Implementation Plan
SO₂	Sulfur Dioxide
tpy	Tons Per Year
VOC	Volatile Organic Compound