



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

Beverly Eaves Perdue  
Freeman  
Governor

Sheila C. Holman

Dee

Director  
Secretary

XXX xxx, 2011

Mr. Billy Taylor  
Plant Manager  
The Goodyear Tire & Rubber Company - Fayetteville Plant  
6650 Ramsey Street  
Fayetteville, NC 28311

Dear Mr. Taylor:

**SUBJECT: Air Quality Permit No. 00011T42**  
**Facility ID: 2600050**  
**The Goodyear Tire & Rubber Company**  
**Fayetteville**  
**Cumberland County**  
**Fee Class: Title V**

In accordance with your completed Air Quality Permit Application for a PSD application received on XXX xxx, 2011, we are forwarding herewith Air Quality Permit No. 00011T42 to The Goodyear Tire & Rubber Company – Fayetteville Plant, 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.

The Goodyear Tire & Rubber Company, shall file a Title V Air Quality Permit Application pursuant to 15A NCAC 2Q .0504 for the air emission source (ID No. XXXX) on or before 12 months after commencing operation.

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.

**Permitting Section**

1641 Mail Service Center, Raleigh, North Carolina 27699-1641  
2728 Capital Blvd., Raleigh, North Carolina 27604  
Phone: 919-715-6235 / FAX 919-733-5317 / Internet: [www.ncair.org](http://www.ncair.org)

One  
North Carolina  
*Naturally*

Mr. Billy Taylor  
XXX xxx, 2011  
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If any parts, requirements, or limitations contained in this Air Quality Permit are unacceptable to you, you have the right to request a formal adjudicatory hearing within 30 days following receipt of this permit, identifying the specific issues to be contested. This hearing request must be in the form of a written petition, conforming to NCGS (North Carolina General Statutes) 150B-23, and filed with both the Office of Administrative Hearings, 6714 Mail Service Center, Raleigh, North Carolina 27699-6714 and the Division of Air Quality, Permitting Section, 1641 Mail Service Center, Raleigh, North Carolina 27699-1641. The form for requesting a formal adjudicatory hearing may be obtained upon request from the Office of Administrative Hearings. Please note that this permit will be stayed in its entirety upon receipt of the request for a hearing Unless a request for a hearing is made pursuant to NCGS 150B-23, this Air Quality Permit shall be final and binding 30 days after issuance.

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

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

This Air Quality Permit shall be effective from XXX xxx, 2011 until December 31, 2013, is nontransferable to future owners and operators, and shall be subject to the conditions and limitations as specified therein. Should you have any questions concerning this matter, please contact Jenny Sheppard at (919) 715-6259.

Sincerely yours,

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

Enclosure

c: Gregg Worley, EPA Region IV  
Steven Vozzo, Supervisor, Fayetteville Regional Office  
Central Files

The following table describes the changes in to Permit No. 0011T42.

<b>Page(s)</b>	<b>Permit Condition</b>	<b>Description of Change(s)</b>
4	Source List	Removed rubber pellet material feed system for Banbury mixer #7 (No. AE8-3) and associated bagfilter (DC-29)
4	Source List	Removed natural gas-fired regenerative thermal oxidizer (RTO) from the Banbury Mixer #1
4	Source List	Removed natural gas-fired regenerative thermal oxidizer (RTO) from the Banbury Mixer #2
5	Source List	Removed Pellet Loader – Process #7 and associated dust collector (DC-115)
6	Source List	Banbury Mixer #8 controlled by natural gas-fired regenerative thermal oxidizer (RTO)
6	Source List	Removed Pellet Cooler – Process #8 (BB08-CE11B-1, BB08-CE11B-2, and BB08-CE-12) and associated dust collector/cyclones (DC-116, DC-117, and DC-115)
20	2.1 C.	Added Banbury mixer #8 (ID No. BB08-CE8-1) with associated bagfilter (ID No. DC-21) and regenerative thermal oxidizer (ID No. RTO-1)
22	2.1 C. 1.	2D .0515 requirements for Banbury mixer #8 (ID No. BB08-CE8-1)
23 to 24	2.1 C.2.	2D .0521 requirements for Banbury mixer #8 (ID No. BB08-CE8-1)
31 to 33	2.2 B. 1.	BACT requirements for Banbury mixer #8 (ID No. BB08-CE8-1)
33	2. 3	Permit Shield for the RTO controlled sources
35 to 46	General Conditions	Updated

**Insignificant Activities Pursuant to 15A NCAC 2Q .0503(8)**

<b>Emission Source ID No.</b>	<b>Emission Source Description</b>
<b>IES-1</b>	Water storage furnace/boiler
<b>IES-2</b>	Marking operation consisting of Tread and Fabric Marking, Defective Tread Marking, Fabric Marking, and Bead Marking
<b>IES-3</b>	White sidewall painting operation
<b>IES-4</b>	Eight (8) bead tuber units
<b>IES-5</b>	Tank farms #1 through #7
<b>IES-6</b>	Oil scales #1 through #8
<b>IES-7</b>	Diesel engines #1 through #4
<b>IES-8</b>	Fork oil and transmission fluid tanks
<b>IES-9</b>	Handweigh Operations at Banbury Mixers
<b>I-BS01</b>	Bladder Spray
<b>I-MISC</b>	Miscellaneous Solvents
<b>I-TD01</b>	Tire Mold Release Lube

1. Because an activity is insignificant does not mean that the activity is exempted from an applicable requirement or that the owner or operator of the source is exempted from demonstrating compliance with any applicable requirement.
2. When applicable, emissions from stationary source activities identified above shall be included in determining compliance with the permit requirements for toxic air pollutants under 15A NCAC 2D .1100 “Control of Toxic Air Pollutants” or 2Q .0711 “Emission Rates Requiring a Permit”.
3. For additional information regarding the applicability of GACT see the DAQ page titled “The Regulatory Guide for Insignificant Activities/Permits Exempt Activities”. The link to this site is as follows:  
<http://daq.state.nc.us/permits/insig/>

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



Division of Air Quality

## AIR QUALITY PERMIT

Permit No.	Replaces Permit No.	Effective Date	Expiration Date
00011T42	00011T41	XXX xxx, 2011	December 31, 2013

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

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

**Permittee:** **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, North Carolina 28311**

**Application Number:** **2600050.11A**  
**Complete Application Date:** **XXX xxx, 2011**

**Primary SIC Code:** **3011**

**Division of Air Quality,**  
**Regional Office Address:** **Fayetteville Regional Office**  
**225 Green Street, Suite 714**  
**Fayetteville, North Carolina 28301**

Permit issued this the xx<sup>th</sup> day of XXX, 2011

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

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ATTACHMENT

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

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

Emission Source ID No.	Emission Source Description	Control Device ID No.	Control Device Description
<b>Boiler House</b>			
BL01 BL02 BL03 BL04 <b>(2D .1109 Case by Case MACT)</b>	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
B53 D53	Two natural gas-fired inert gas generators (3.5 and 7.0 million Btu per hour maximum heat input capacities, respectively)	NA	NA
TMP01 (NSPS, Subpart Dc*, 2D .1109 Case by Case MACT)	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
<b>Carbon Transfer Systems</b>			
<b>Carbon Black Tower 1 consisting of:</b>			
CBT1-ES-210 <b>(MACT, Subpart XXXX)</b>	One Carbon black tower 1 railcar bucket elevator	DC-120	One bin vent filter (300 ACFM, minimum)
CBT1-ES-211 through CBT1-ES-216 <b>(MACT, Subpart XXXX)</b>	Six Carbon Black Tower 1 storage bins	DC-121 through DC-126	Six bin vent filters (300 ACFM each, minimum)
CBT1-TS1 <b>(MACT, Subpart XXXX)</b>	Carbon Black transfer system including covered conveyor	NA	NA
CBT1-CBS-1 <b>(MACT, Subpart XXXX)</b>	One Banbury #1 surge bin	DC-140 through DC-143	Four bin vent filters (300 ACFM each, minimum)
CBT1-CBS-2 <b>(MACT, Subpart XXXX)</b>	One Banbury #2 surge bin	DC-144 through DC-147	Four bin vent filters (300 ACFM each, minimum)
CBT1-CBS-3 <b>(MACT, Subpart XXXX)</b>	One Banbury #3 surge bin	DC-148 through 151	Four bin vent filters (300 ACFM each, minimum)
CBT1-CBS-6A <b>(MACT, Subpart XXXX)</b>	One Banbury #6A surge bin	DC-152 through DC-155	Four bin vent filters (300 ACFM each, minimum)
<b>Carbon Black Tower 2 consisting of:</b>			
CBT2-ES-220 <b>(MACT, Subpart XXXX)</b>	One Carbon black tower 2 railcar bucket elevator	DC-130	One bin vent filter (300 ACFM, minimum)
CBT2-ES-221 through CBT2-ES-226 <b>(MACT, Subpart XXXX)</b>	Six Carbon Black Tower 2 storage bins	DC-131 through DC-136	Six bin vent filters (300 ACFM each, minimum)
CBT2-TS2 <b>(MACT, Subpart XXXX)</b>	Carbon Black transfer system including covered conveyor	NA	NA

<b>Emission Source ID No.</b>	<b>Emission Source Description</b>	<b>Control Device ID No.</b>	<b>Control Device Description</b>
CBT2-CBS-7 (MACT, Subpart XXXX)	One Banbury #7 surge bin	DC-156 through DC-159	Four bin vent filters (300 ACFM each, minimum)
CBT2-CBS-8 (MACT, Subpart XXXX)	One Banbury #8 surge bin	DC-160 through DC-164	Five bin vent filters (300 ACFM each, minimum)
<b>Blending/Pellet Production</b>			
BO01 (MACT, Subpart XXXX)	Blend room operations including:  -One bailer (No. E10-1), -One weigh hopper (No. E10-2), and -Two mixers (Nos. E10-4 and E10-5)	DC-10	One bagfilter (4,515 square feet of filter area, minimum)
BO02 (MACT, Subpart XXXX)	One Pellet Feed System Operation consisting of the following equipment:  -Seven rubber pellet material feed systems for Banbury mixers 1, 2, 3, 4, 5, 6, and 6A, (Nos. PFS1, PFS2, PFS3, PFS4, PFS5, PFS6, and PFS6A, respectively)  <del>-One rubber pellet material feed system for Banbury mixer #7 (No. AE8-3)</del>	DC-22, DC-23, DC-24, DC-25, DC-26, DC-27, and DC-28  <del>DC-29</del>	Seven bagfilters (344 square feet of filter area each, minimum)  <del>One bagfilter (1,100 square feet of filter area, minimum)</del>
<b>Banbury Processes</b>			
<b>Banbury Process #1 consisting of:</b>			
BB01-K9-1 (BACT; MACT, Subpart XXXX)	Banbury Mixer #1	DC-13  <del>RTO-1</del>	One bagfilter (4,515 square feet of filter area, minimum)  <del>One natural gas-fired regenerative thermal oxidizer (10.7 million Btu per hour maximum heat input capacity)</del>
BB01-K11B-1 (MACT, Subpart XXXX)	Pellet Cooler – Process #1	DC-108	One dust collector/cyclone (30 inches in diameter, minimum)
BB01-K11B-2 (MACT, Subpart XXXX)	Pellet Cooler – Process #1	DC-109	One dust collector/cyclone (30 inches in diameter, minimum)
BB01-K-12 (MACT, Subpart XXXX)	Pellet Loader – Process #1	DC-110	One dust collector/bagfilter (904 square feet of filter area, minimum)
<b>Banbury Process #2 consisting of:</b>			
BB02-L9-1 (BACT; MACT, Subpart XXXX)	Banbury Mixer #2	DC-14  <del>RTO-1</del>	One bagfilter (4,515 square feet of filter area, minimum)  <del>One natural gas-fired regenerative thermal oxidizer (10.7 million Btu per hour maximum heat input capacity)</del>

<b>Emission Source ID No.</b>	<b>Emission Source Description</b>	<b>Control Device ID No.</b>	<b>Control Device Description</b>
BB02-L11B-1 (MACT, Subpart XXXX)	Pellet Cooler – Process #2	DC-111	One dust collector/cyclone (30 inches in diameter, minimum)
BB02-L11B-2 (MACT, Subpart XXXX)	Pellet Cooler – Process #2	DC-112	One dust collector/cyclone (30 inches in diameter, minimum)
BB02-L-12 (MACT, Subpart XXXX)	Pellet Loader – Process #2	DC-110	One dust collector/bagfilter (904 square feet of filter area, minimum)
<b>Banbury Process #3 consisting of:</b>			
BB03-M9-1 (MACT, Subpart XXXX)	Banbury Mixer #3	DC-15	One bagfilter (4,515 square feet of filter area, minimum)
<b>Banbury Process #4 consisting of:</b>			
BB04-P9-1 (MACT, Subpart XXXX)	Banbury Mixer #4	DC-16	One bagfilter (4,515 square feet of filter area, minimum)
<b>Banbury Process #5 consisting of:</b>			
BB05-Q9-1 (MACT, Subpart XXXX)	Banbury Mixer #5	DC-17	One bagfilter (4,515 square feet of filter area, minimum)
<b>Banbury Process #6 consisting of:</b>			
BB06-R9-1 (MACT, Subpart XXXX)	Banbury Mixer #6	DC-18	One bagfilter (4,515 square feet of filter area, minimum)
<b>Banbury Process #6A consisting of:</b>			
BB06A-V9-1 (BACT; MACT, Subpart XXXX)	Banbury Mixer #6A	DC-19  RTO-1	One bagfilter (3,822 square feet of filter area, minimum)  One natural gas-fired regenerative thermal oxidizer (10.7 million Btu per hour maximum heat input capacity)
<b>Banbury Process #7 consisting of:</b>			
BB07-AE8-1**** (BACT; MACT, Subpart XXXX)	Banbury Mixer #7	DC-20  RTO-1	One bagfilter (4,515 square feet of filter area, minimum)  One natural gas-fired regenerative thermal oxidizer (10.7 million Btu per hour minimum heat input capacity)
BB07-AE-12 (MACT, Subpart XXXX)	Pellet Loader – Process #7	DC-115	One dust collector/bagfilter (904 square feet of filter area minimum)
<b>Banbury Process #8 consisting of:</b>			

Emission Source ID No.	Emission Source Description	Control Device ID No.	Control Device Description
BB08-CE8-1 ( <b>BACT</b> , <b>MACT</b> , <b>Subpart XXXX</b> )	Banbury Mixer #8	DC-21  RTO-1	One bagfilter (3,822 square feet of filter area, minimum)  One natural gas-fired regenerative thermal oxidizer (10.7 million Btu per hour minimum heat input capacity)
<del>BB08-CE11B-1 (<b>MACT</b>, <b>Subpart XXXX</b>)</del>	<del>Pellet Cooler—Process #8</del>	<del>DC-116</del>	<del>One dust collector/cyclone (30 inches in diameter, minimum)</del>
<del>BB08-CE11B-2 (<b>MACT</b>, <b>Subpart XXXX</b>)</del>	<del>Pellet Cooler—Process #8</del>	<del>DC-117</del>	<del>One dust collector/cyclone (30 inches in diameter, minimum)</del>
<del>BB08-CE-12 (<b>MACT</b>, <b>Subpart XXXX</b>)</del>	<del>Pellet Loader—Process #8</del>	<del>DC-115</del>	<del>One dust collector/bagfilter (904 square feet of filter area minimum)</del>
<b>Slurry Mix Operation consisting of:</b>			
K8-1 K8-2 ( <b>MACT</b> , <b>Subpart XXXX</b> )	Slurry Mixers (Nos. 1 and 2)	DC-100	One bagfilter (2,032 square feet of filter area, minimum)
BE7-1 BE7-2 ( <b>MACT</b> , <b>Subpart XXXX</b> )	Slurry Mixers (Nos. 3 and 4)	DC-21	One bagfilter (3,822 square feet of filter area, minimum)
PDS-1 ( <b>MACT</b> , <b>Subpart XXXX</b> )	Banbury mixer Nos. 1, 2, and 3 dump sinks	DC-171***	One bagfilter (4,560 square feet of filter area, minimum)
PDS-2 ( <b>MACT</b> , <b>Subpart XXXX</b> )	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)
<b>Tuber Operations</b>			
<b>Rubber Extrusion Process consisting of:</b>			
TL07 TL08 TL09 TL10 ( <b>MACT</b> , <b>Subpart XXXX</b> )	Four non-cementing rubber extrusion lines/tubers, (Nos. 7, 8, 9, and 10)	NA	NA
TL02 TL03 TL04 TL05 TL06 ( <b>NSPS</b> , <b>Subpart BBB</b> ; <b>MACT</b> , <b>Subpart XXXX</b> )	Five cementing rubber extrusion lines/tubers (Nos. 2, 3, 4, 5, and 6) consisting of one tread end cement operation each (K23-2, M23-2, P23-2, AE23-2, and S23-2, respectively)	NA	NA
<b>Calendar Operations</b>			
<b>Fabric Calendar Process consisting of:</b>			
FABR-G18 ( <b>MACT</b> , <b>Subpart XXXX</b> )	One line vacuum for fabric calendar process	DC-103	One bagfilter (220 square feet of filter area, minimum)
FABR-G25 ( <b>MACT</b> , <b>Subpart XXXX</b> )	One windup process for fabric calendar process	DC-104	One dust collector/cyclone (12 inches in diameter, minimum)
<b>Calendar Lines and Electron Beam Process consisting of:</b>			

<b>Emission Source ID No.</b>	<b>Emission Source Description</b>	<b>Control Device ID No.</b>	<b>Control Device Description</b>
EBP-W27 (MACT, Subpart XXXX)	One windup for wire calendar process	DC-106	One dust collector/cyclone (12 inches in diameter, minimum)
EBP-CAL1 (MACT, Subpart XXXX)	One four-roll calendar process No. 1 (with an electronic beam process)	NA	NA
CAL2 CAL3 (MACT, Subpart XXXX)	Two four-roll calendar processes (Nos. 2 and 3)	NA	NA
CAL4** (MACT, Subpart XXXX)	One gum roll calendar process	NA	NA
<b>Tire Press Operations</b>			
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 manual tire/mold release lube spray (green tire spray) operations	NA	NA
GTS-GT-S1 through GTS-GT-S5 (NSPS, Subpart BBB; MACT, Subpart XXXX)	Five fully automated tire/mold release lube spray (green tire spray) operations booths	NA	NA
<b>Tire Press Mold Operation consisting of:</b>			
KE60 (MACT, Subpart XXXX)	One mold cleaner	DC-93	One bagfilter (filtering velocity of 12.1 fpm, maximum)
LE60 (MACT, Subpart XXXX)	One mold cleaner	DC-94	One bagfilter (500 square feet of filter area, minimum)
LE61 (MACT, Subpart XXXX)	One mold cleaner	DC-95	One bagfilter (500 square feet of filter area, minimum)
<b>Grinding Operations</b>			
<b>White Sidewall Grinders Operation Bank #1 consisting of:</b>			
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)
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)
N63 T63 (MACT, Subpart XXXX)	Two lubricant appliers	NA	NA
<b>White Sidewall Grinders Operation Bank #2 consisting of:</b>			
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)
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)
JE63 (MACT, Subpart XXXX)	Lubricant applier	NA	NA

<b>Emission Source ID No.</b>	<b>Emission Source Description</b>	<b>Control Device ID No.</b>	<b>Control Device Description</b>
<b>Force Grinder Operation Bank #1 consisting of:</b>			
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)
<b>Force Grinder Operation Bank #2 consisting of:</b>			
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)
<b>Force Grinder Operation Bank #3 consisting of:</b>			
FE66 (MACT, Subpart XXXX)	Force Grinders (Nos. FG-305 through FG-316)	DC-77	One self-induced spray scrubber (20,000 ACFM, minimum)
<b>Force Grinder Operation Bank #4 consisting of:</b>			
ME69 (MACT, Subpart XXXX)	Force Grinders (Nos. FG-401 through FG-404)	DC-165	One rotoclone (self-induced scrubber) (5,100 ACFM, minimum)
<b>Run-Out Grinder Operation Bank #5 consisting of:</b>			
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)
<b>Run-Out Grinder Operation Bank #6 consisting of:</b>			
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)
<b>Run-Out Grinder Operation Bank #7 consisting of:</b>			
UE70 (MACT, Subpart XXXX)	Run-Out Grinders (Nos. RG-700 and RG-704)	DC-168	One rotoclone (self-induced wet scrubber) (7,500 ACFM)
<b>Force Grinder Operation Bank #8 consisting of:</b>			
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)
<b>Run-Out Grinder Operation #9 consisting of:</b>			
MG1** (MACT, Subpart XXXX)	One Collman Grinder	DC-170**	One bagfilter (110 square feet of filter area, minimum)
<b>Tire Repair Process consisting of:</b>			
TR01-F67 TR01-F69 (MACT, Subpart XXXX)	Tire Repair Tables 2 and 3	DC-91	One dust cyclone (30 inches in diameter, minimum)
TR01-AE63 (MACT, Subpart XXXX)	Tire Repair Table 4	DC-31	One self-induced spray scrubber (20,000 ACFM, minimum)
<b>Facility-Wide</b>			
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.

\*\*These emission source(s) and/or control device(s) (ID Nos. FWS1, MG1, RG800, RG801, RG802, RG803, RG804, RG805, CAL4, and the 61 replacement curing presses listed under ID No. GTS-CP-001 through GTS-CP-322) are listed as a 15A NCAC 2Q .0501(c)(2) modification. The Permittee shall file a Title V Air Quality Permit Application on or before 12 months after commencing operation in accordance with General Condition NN.1. The permit shield described in General Condition R does not apply and compliance certification as described in General Condition P is not required.

\*\*\*These control devices (**ID Nos. DC-171, 172, and 173**) are listed as a minor modification per 15A NCAC 2Q .0515. The compliance certification as described in General Condition P is required. Unless otherwise notified by NC DAQ, the affected terms of this permit (excluding the permit shield as described General Condition R) for this source shall become final on March 22, 2010. Until this date, the affected permit terms herein reflect the proposed operating language that the Permittee shall operate this source under pursuant to 15A NCAC 2Q .0515(f).

\*\*\*\* This emission source (**ID No. BB07-AE8-1**) is listed as a 15A NCAC 2Q .0501(c)(2) modification. The Permittee shall file a Title V Air Quality Permit Application on or before 12 months after commencing operation in accordance with General Condition NN.1. The permit shield described in General Condition R does not apply and compliance certification as described in General Condition P is not required.

## SECTION 2 - SPECIFIC LIMITATIONS AND CONDITIONS

### 2.1 - Emission Source(s) and Control Device(s) Specific Limitations and Conditions

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

- A. Four natural gas/No. 6 fuel oil/No. 2 fuel oil/recycled No. 6 fuel oil-fired boilers (ID Nos. BL01 through BL04)  
Two natural gas-fired inert gas generators (ID Nos. B53 and D53)**

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	( <b>ID Nos. BL01 through BL04 only</b> ) 0.25 pounds per million Btu heat input	15A NCAC 2D .0503
Sulfur dioxide	2.3 pounds per million Btu heat input	15A NCAC 2D .0516
Visible emissions	( <b>ID Nos. BL01 through BL04 only</b> ) 40 percent opacity  ( <b>ID Nos. B53 and D53 only</b> ) 20 percent opacity	15A NCAC 2D .0521
Toxic air pollutants	<b>State enforceable-only</b> Recycled oil shall be reclaimed on-site or supplied by a DAQ-approved vendor	15A NCAC 2Q .0317 (Toxics Avoidance)
filterable PM mercury carbon monoxide	( <b>ID Nos. BL01 through BL04 only</b> ) <u>For No. 6 Fuel Oil/recycled No. 6 Fuel Oil Firing</u> 0.45 lb/mmBtu 2.0e-05 lb/mmBtu 28 ppmvd & 7% O <sub>2</sub>	15A NCAC 2D .1109
filterable PM mercury carbon monoxide	<u>For No. 2 Fuel Oil Firing</u> 0.14 lb/mmBtu 2.0e-06 lb/mmBtu 30 ppmvd & 7% O <sub>2</sub>	
hazardous air pollutants	<u>For Natural Gas</u> Best Combustion Practices	

1. **15A NCAC 2D .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 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.1.a above, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0503.

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

- c. No monitoring/recordkeeping/reporting is required for particulate 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 2D .0516: SULFUR DIOXIDE EMISSIONS FROM COMBUSTION SOURCES**

- a. Emissions of sulfur dioxide from these sources (**ID Nos. BL01 through BL04, B53, and D53**) 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 2D .0516.

**Monitoring/Recordkeeping** [15A NCAC 2Q .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, B53, and D53**).
- 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 2D .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 2D .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, B53, and D53**).
- 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 2D .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.

- b. Visible emissions from these sources (**ID Nos. B53 and D53**) 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)]

- c. 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 2D .0521.

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

- d. 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, B53, and D53**).
- e. To assure compliance, once a day the Permittee shall observe the emission points of these sources (**ID Nos. BL01 through BL04, B53, and D53**) 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 2D .2610 (Method 9) for 12 minutes is below the limit given in 2.1 A.3.a or b above. If the above-normal emissions are not corrected per i. above or if the demonstration in ii. above cannot be made, the Permittee shall be deemed to be in noncompliance with 15A NCAC 2D .0521.
- 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 2D .0521 if these records are not maintained.

**Reporting** [15A NCAC 2Q .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, B53, and D53**).
- 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.

**State-enforceable only**

**4. 15A NCAC 2Q .0317: AVOIDANCE CONDITIONS for 15A NCAC 2Q .0700: TOXIC AIR POLLUTANT PROCEDURES (for firing of Vendor Supplied Recycled fuels and avoidance of toxics air pollutants regulation)**

- a. **VENDOR SUPPLIED RECYCLED No.6 FUEL OIL REQUIREMENTS-** In accordance with Rule 2Q .0317, the Permittee is avoiding the applicability of Rule 2Q .0700 by using recycled fuels which are equivalent to their virgin counterparts. The Permittee is allowed to use the recycled fuel oil(s) supplied by a DAQ-approved vendor as follows:

Specifications - The recycled fuel oil(s) shall be equivalent to unadulterated fossil fuel by meeting the following criteria:

Constituent/Property	Allowable Level
Arsenic	1.0 ppm maximum

Constituent/Property	Allowable Level
Cadmium	2.0 ppm maximum
Chromium	5.0 ppm maximum
Lead	100 ppm maximum
Total Halogens	1000 ppm maximum
Flash Point (No. 6 Fuel Oil)	175 °F minimum
Sulfur (No. 6 Fuel Oil)	2.0% maximum (by weight)
Ash	1.0% maximum

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

- b. The DAQ reserves the right to require additional testing and/or monitoring of the recycled fuel oil(s) on an annual basis or without notice.

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

- c. The Permittee is responsible for ensuring that the recycled fuel oil(s), as received at the site, meet(s) the approved criteria for unadulterated fuel. The Permittee is held responsible for any discrepancies discovered by DAQ as a result of any sampling and analysis of the fuel oil(s).
- d. The Permittee shall maintain at the facility for a minimum of three years, and shall make available to representatives of the DAQ upon request, accurate records of the following:
- i. The actual amount of recycled fuel oil(s) delivered to, and combusted at the facility on an annual basis.
  - ii. Each load of recycled fuel oil received shall include the following:
    - A. A delivery manifest document clearly showing the shipment content and amount, its place and date of loading, and place and date of destination;
    - B. A batch specific analytical report that contains an analysis for all constituents/properties listed above. Analytical results of the samples representative of the recycled oil shipment from the vendor shall be no more than one year old when received;
    - C. Batch signature information consisting of the following: a batch number, tank identification with batch volume of recycled oil, date and time the batch completed treatment, and volume(s) delivered; and
    - D. A certification indicating that the recycled fuel oil does not contain detectable PCBs (< 2 ppm).

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

- e. Within 30 days after each calendar year, regardless of the amount received or combusted, the Permittee shall submit in writing to the Regional Supervisor, DAQ, the following:
- i. A summary of the results of the analytical testing for the previous 12 months; and
  - ii. The total gallons of recycled fuel oil(s) from each approved vendor and combusted at the facility for the previous 12 months.

**5. 15A NCAC 2D .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 2D .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

**No. 6 fuel oil:**

- i. Filterable PM: 0.45 lbs/mmBtu
- ii. Mercury (Hg): 2.0e-05 lbs/mmBtu
- iii. Carbon Monoxide (CO): 28 ppmvd, corrected to 7% oxygen

These emissions shall only apply if the boiler fires at least 10% residual fuel oil on an annual average heat input basis. If the Permittee fires less than 10% residual 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 residual 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:

- i. Record the fuel use by each affected source, including the type(s) of fuel and amount(s) used, during the previous calendar month; and,
- ii. Calculate the annual average heat input from residual 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 residual 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 2D .1109 if it fails to comply with the recordkeeping requirements.

- c. Emissions from these sources shall not exceed the emissions limitations listed below as a result of firing **No. 2 fuel oil**:
  - i. Filterable PM: 0.014 lbs/mmBtu
  - ii. Mercury (Hg): 3.0e-06 lbs/mmBtu
  - iii. Carbon Monoxide (CO): 30 ppmvd, corrected to 7% oxygen

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

- d. 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 2D .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 2D .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 2D .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 2Q .0508(f)]

- e. 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 requirement. The Permittee shall be deemed in noncompliance with 15A NCAC 2D .1109 if the affected boilers are not inspected and maintained as required above.

- f. 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 2D .1109 if these records are not maintained.

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

- g. **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.
- h. **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.

**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 2D .0503
Sulfur dioxide	2.3 pounds per million Btu heat input	15A NCAC 2D .0516
Visible emissions	20 percent opacity	15A NCAC 2D .0521
Nitrogen oxides	Less than 40 tons per 12-month period	15A NCAC 2Q .0317 PSD Avoidance
Sulfur dioxide	Less than 40 tons per 12-month period	15A NCAC 2Q .0317 PSD Avoidance
<b>40 CFR 60, Subpart Dc</b>		
The following standards are only applicable to temporary, back-up boilers that commenced construction, reconstruction, or modification after June 9 <sup>th</sup> , 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 2D .0524 40 CFR 60, Subpart Dc
Visible emissions	<b>Only applicable to boilers with a maximum heat input capacity ≥30 million Btu per hour</b> 20 percent opacity	15A NCAC 2D .0524 40 CFR 60, Subpart Dc

Regulated Pollutant	Limits/Standards	Applicable Regulation
filterable PM mercury carbon monoxide	<i>For No. 2 Fuel Oil Firing</i> 0.014 lb/mmBtu 3.0e-06 lb/mmBtu 30 ppmvd & 7% O <sub>2</sub>	15A NCAC 2D .1109
hazardous air pollutants	<i>For Natural Gas</i> Best Combustion Practices	

**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 2D .0503.

**Monitoring/Recordkeeping/Reporting** [15A NCAC 2Q .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 2D .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 2D .0516.

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

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

**3. 15A NCAC 2D .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 2D .0521.

**Monitoring/Recordkeeping/Reporting** [15A NCAC 2Q .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 2D .0530: PREVENTION OF SIGNIFICANT DETERIORATION**

- a. In order to avoid applicability of 15A NCAC 2D .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 2D .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 2Q .0508(f)]

- c. The Permittee shall keep monthly records of fuel usage in a log (written or in electronic format), as follows:
- The total quantity (in million scf) of natural gas fired at the boiler;
  - The total quantity (in 1,000 gal) of No. 2 fuel oil fired at the boiler; and
  - 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 2D .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 SO<sub>2</sub> 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:
- Calculate SO<sub>2</sub> emissions from the previous calendar month using the following equation:

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

Where,

E<sub>SO2</sub> = SO<sub>2</sub> emissions (in lbs) during the previous calendar month

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

Q<sub>fo2</sub> = Quantity of No. 2 fuel oil fired at the temporary boiler during the previous calendar month (in 1,000 gal),

Q<sub>ng</sub> = Quantity of natural gas fired at the temporary boiler during the previous calendar month (in million scf)

- Sum the SO<sub>2</sub> 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 2D .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<sub>x</sub> 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:
- Calculate NO<sub>x</sub> emissions from the previous calendar month using the following equation:

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

Where:

E<sub>NOx</sub> = NO<sub>x</sub> emissions (in lbs) during the previous calendar month

- Sum the NO<sub>x</sub> 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 2D .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:
- Indicate the anticipated date of boiler installation;
  - 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 2D .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 2D .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 SO<sub>2</sub> and NO<sub>x</sub> 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 SO<sub>2</sub> and NO<sub>x</sub> from any temporary boiler for each of the previous 12 months, and total SO<sub>2</sub> and NO<sub>x</sub> emissions for the previous 12-month period.The Permittee shall be deemed in non-compliance with 15A NCAC 2D .0530 if it fails to provide the final notification as provided above.

## 5. 15A NCAC 2D .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 9<sup>th</sup>, 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 2D .0524.

### Emission Limitations [15A NCAC 2D .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 2D .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 2D .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 2D .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 2D .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 2D .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

**No. 6 fuel oil:**

- i. Filterable PM: 0.014 lbs/mmBtu
- ii. Mercury (Hg): 3.0e-06 lbs/mmBtu
- iii. Carbon Monoxide (CO): 30 ppmvd, corrected to 7% oxygen

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

- c. To demonstrate compliance with the standards provided in Section 2.1 B.6.b. 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 2D .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 E.1.b., 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 2D .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 2D .1109 if the required compliance tests are not conducted, or if the results of a compliance test exceed a limit in Section 2.1 E.1.b. above.

**Work Practice Standards** [15A NCAC 2Q .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 requirement. The Permittee shall be deemed in noncompliance with 15A NCAC 2D .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 2D .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.

- 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 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)**  
**Blend room operations (ID No. BO01) including one bailer, one weigh hopper, and two mixers with associated bagfilter (ID No. DC-10)**  
**One pellet feed system operation (ID No. BO02) including seven rubber pellet material systems with associated bagfilters (ID Nos. DC-22 through DC-28)**  
**One Banbury mixer #1 (ID No. BB01-K9-1) with associated bagfilter (ID No. DC-13) and regenerative thermal oxidizer (ID No. RTO-1)**  
**Two pellet coolers (ID Nos. BB01-K11B-1 and BB01-K11B-2) with associated dust collectors/cyclones (ID Nos. DC-108 and DC-109)**  
**One pellet loader (ID No. BB01-K-12) with associated dust collector/bagfilter (ID No. DC-110)**  
**One Banbury mixer #2 (ID No. BB02-L9-1) with associated bagfilter (ID No. DC-14) and regenerative thermal oxidizer (ID No. RTO-1)**  
**Two pellet coolers (ID Nos. BB02-L11B-1 and BB02-L11B-2) with associated dust collectors/cyclones (ID Nos. DC-111 and DC-112)**

One pellet loader (ID No. BB02-L-12) with associated dust collector/bagfilter (ID No. DC-110)

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)

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

~~One pellet loader (ID No. BB07-AE-12) with associated dust collector/bagfilter (ID No. DC-115)~~

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

~~Two pellet coolers (ID Nos. BB08-CE11B-1 and BB08-CE11B-2) with associated dust collectors/ cyclones (ID Nos. DC-116 and DC-117)~~

~~One pellet loader (ID No. BB08-CE-12) with associated dust collector/bagfilter (ID No. DC-115)~~

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. 1, 2, and 3 dump sinks (ID No. PDS-1) with associated bagfilter (ID No. DC-171)

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)

Three four-roll calendar operations (ID Nos. EBP-CAL1, CAL2 and CAL3)

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

Three mold cleaner processes (ID Nos. KE60, LE60, and LE61) with associated bagfilters (ID Nos. DC-93, 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 JE 63)**
- Facility-wide solvent and cement use (ID No. FWS1)**

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 <math>P \leq 30</math> tons per hour)  <math>E = 4.10P^{0.67}</math></p> <p>(For <math>P &gt; 30</math> tons per hour)  <math>E = 55.0 P^{0.11} - 40</math></p> <p>Where:            E = allowable emission rate in pounds per hour            P = process weight in tons per hour</p>	15A NCAC 2D .0515
Visible emissions	20 percent opacity	15A NCAC 2D .0521
Volatile organic compounds	See Section 2.2 A.1	15A NCAC 2D .0958
Volatile organic compounds	(ID Nos. BB01-K9-1, BB02-L9-1, BB06A-V9-1, BB07-AE8-1, and <b>BB08-CE8-1</b> only) See Section 2.2.B.1	15A NCAC 2D .0530

1. **15A NCAC 2D .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, BO01, BO02, BB01-K9-1, BB01-K11B-1, BB01-K11B-2, BB01-K-12, BB02-L9-1, BB02-L11B-1, BB02-L11B-2, BB02-L-12, BB03-M9-1, BB04-P9-1, BB05-Q9-1, BB06-R9-1, BB06A-V9-1, BB07-AE8-1, **BB07-AE-12**, **BB08-CE8-1**, ~~BB08-CE11B-1~~, ~~BB08-CE11B-2~~, ~~BB08-CE-12~~, K8-1, K8-2, BE7-1, BE7-2, PDS-1, PDS-2, FABR-G18, FABR-G25, EBP-W27, EBP-CAL1, CAL2, CAL3, KE60, 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 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 2D .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, BO01, BO02, BB01-K9-1, BB01-K11B-1, BB01-K11B-2, BB01-K-12, BB02-L9-1, BB02-L11B-1, BB02-L11B-2, BB02-L-12, BB03-M9-1, BB04-P9-1, BB05-Q9-1, BB06-R9-1, BB06A-V9-1, BB07-AE8-1, ~~BB07-AE-12~~, ~~BB08-CE8-1~~, ~~BB08-CE11B-1~~, ~~BB08-CE11B-2~~, ~~BB08-CE-12~~, K8-1, K8-2, BE7-1, BE7-2, PDS-1, PDS-2, FABR-G18, FABR-G25, EBP-W27, EBP-CAL1, CAL2, CAL3, KE60, 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:
- monthly external inspection of the ductwork, bin vent filters, cyclones, scrubbers, and bagfilters noting the structural integrity; and
  - 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 2D .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:
- the date and time of each recorded action;
  - the results of each inspection;
  - the results of any maintenance performed on any control device; and
  - 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 2D .0515 if these records are not maintained.

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

- e. The Permittee shall submit the results of any maintenance performed on 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 2D .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, BO01, BO02, BB01-K9-1, BB01-K11B-1, BB01-K11B-2, BB01-K-12, BB02-L9-1, BB02-L11B-1, BB02-L11B-2, BB02-L-12, BB03-M9-1, BB04-P9-1, BB05-Q9-1, BB06-R9-1, BB06A-V9-1, BB07-AE8-1, ~~BB07-AE-12~~, ~~BB08-CE8-1~~, ~~BB08-CE11B-1~~, ~~BB08-CE11B-2~~, ~~BB08-CE-12~~, K8-1, K8-2, BE7-1, BE7-2, PDS-1, PDS-2, FABR-G18, FABR-G25, EBP-W27, EBP-CAL1, CAL2, CAL3, KE60, 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 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 the limit given in Section 2.1 C.2.a above, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0521.

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

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, BO01, BO02, BB01-K9-1, BB01-K11B-1, BB01-K11B-2, BB01-K-12, BB02-L9-1, BB02-L11B-1, BB02-L11B-2, BB02-L-12, BB03-M9-1, BB04-P9-1, BB05-Q9-1, BB06-R9-1, BB06A-V9-1, BB07-AE8-1, ~~BB07-AE-12~~, ~~BB08-CE8-1~~, ~~BB08-CE11B-1~~, ~~BB08-CE11B-2~~, ~~BB08-CE-12~~, K8-1, K8-2, BE7-1, BE7-2, PDS-1, PDS-2, FABR-G18, FABR-G25, EBP-W27, EBP-CAL1, CAL2, CAL3, KE60, 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) for any visible emissions above normal. The Permittee shall establish "normal" for the Banbury Mixer #1 and # 2 (BB01-K9-1 and BB02-L9-1), and the Banbury Mixer #8 (BB08-CE8-1) in the first 30 days following the modification of the sources. 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 2D .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 2D .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 2D .0521 if these records are not maintained.

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

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

**D. Three hundred and twenty-two (322) tire curing presses (ID Nos. GTS-CP-001 through GTS-CP-322)**

**Five fully automated tire/mold release-lube (green tire spray) operations booths (ID Nos. GTS-GT-S1 through GTS-GT-S5)**

**Five cementing Rubber Extrusion Lines/Tubers Nos. 2, 3, 4, 5, and 6 (ID Nos. TL02 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
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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-S5 only) Less than 1.2 grams VOC per tire cemented for each month  (ID Nos. TL02 through TL06 only) Less than 10 grams VOC per tire cemented for each month	15A NCAC 2D .0524 (40 CFR 60, Subpart BBB)
Volatile organic compounds	See Section 2.2 A.1	15A NCAC 2D .0958
Volatile organic compounds	(ID Nos. GTS-CP-001 through GTS-CP-322 only) See Section 2.2 B.1	15A NCAC 2D .0530

**1. 15A NCAC 2D .0524: NEW SOURCE PERFORMANCE STANDARDS**

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

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

- b. For each tread end cementing operation (ID Nos. TL02 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 GTS-GT-S1 through GTS-GT-S5), 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. TL02 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 2D .0524 if the required monitoring 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-S5**) standard by using water-based sprays containing 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 2D .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.

**Reporting** [15A NCAC 2Q .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-S5**) 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. 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.

## 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
Volatile organic compounds	Work practice standards	15A NCAC 2D .0958
Toxic air pollutants	<b>State-enforceable only</b> See below	15A NCAC 2D .1100
Odorous emissions	<b>State-enforceable only</b> Odorous emissions must be controlled	15A NCAC 2D .1806
Toxic air pollutants	<b>State-enforceable only</b> See below	15A NCAC 2Q .0711
Hazardous air pollutants	National Emission Standards for Hazardous Air Pollutants from Rubber Tire Manufacturing	15A NCAC 2Q .1111 (40 CFR 63, Subpart XXXX)
Toxic air pollutants	<b>State-enforceable only</b> "Last MACT" Air Toxics Demonstration	15A NCAC 2Q .0705

#### 1. 15A NCAC 2D .0958: WORK PRACTICES FOR SOURCES OF VOLATILE ORGANIC COMPOUNDS

- a. Pursuant to 15A NCAC 2D .0958, for all sources that use volatile organic compounds (VOC) as solvents, carriers, material processing media, or industrial chemical reactants, or in similar uses that mix, blend, or manufacture VOCs, or emit VOCs as a product of chemical reactions, and whose emissions of VOCs are greater than 15 pounds per day; the Permittee shall:
  - i. store all material, including waste material, containing VOCs in tanks or in containers covered with a tightly fitting lid that is free of cracks, holes, or other defects, when not in use,

- ii. clean up spills of VOCs as soon as possible following proper safety procedures,
  - iii. store wipe rags containing VOCs in closed containers,
  - iv. not clean sponges, fabric, wood, paper products, and other absorbent materials with VOCs,
  - v. transfer solvents containing VOCs used to clean supply lines and other coating equipment into closable containers and close such containers immediately after each use, or transfer such solvents to closed tanks, or to a treatment facility regulated under section 402 of the Clean Water Act,
  - vi. clean mixing, blending, and manufacturing vats and containers containing VOCs by adding cleaning solvent and close the vat or container before agitating the cleaning solvent. The spent cleaning solvent shall then be transferred into a closed container, a closed tank or a treatment facility regulated under section 402 of the Clean Water Act.
- b. When cleaning parts with a solvent containing a VOC, the Permittee shall:
- i. flush parts in the freeboard area,
  - ii. take precautions to reduce the pooling of solvent on and in the parts,
  - iii. tilt or rotate parts to drain solvent and allow a minimum of 15 seconds for drying or until all dripping has stopped, whichever is longer,
  - iv. not fill cleaning machines above the fill line,
  - v. not agitate solvent to the point of causing splashing.

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

- c. To assure compliance with paragraphs (a) and (b) above, the Permittee shall, at a minimum, perform a visual inspection once per month of all operations and processes utilizing volatile organic compounds. The inspections shall be conducted during normal operations. If the required inspections are not conducted the permittee shall be deemed to be in noncompliance with 15A NCAC 2D .0958.
- d. The results of the inspections 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 inspection; and
  - ii. the results of each inspection noting whether or not noncompliant conditions were observed.
- If the required records are not maintained the Permittee shall be deemed to be in noncompliance with 15A NCAC 2D .0958.

**Reporting** [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.

**State-enforceable only**

**2. 15A NCAC 2D .1100: CONTROL OF TOXIC AIR POLLUTANTS**

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

<b>Emission Source(s)</b>	<b>Toxic Air Pollutant(s)</b>	<b>Emission Limit(s)</b>
Facility-wide	1,3-butadiene	1,932.3 pounds per year
Facility-wide	acrolein	0.8 pounds per hour
Facility-wide	acrylonitrile	1,705 pounds per year
Facility-wide	aniline	10.4 pounds per hour
Facility-wide	benzene	1,364 pounds per year
Facility-wide	cadmium	62.5 pounds per year
Facility-wide	carbon disulfide	698.8 pounds per day
Facility-wide	n-hexane	4,132.5 pounds per day
Facility-wide	methylene chloride	272,798 pounds per year 17.7 pounds per hour
Facility-wide	nickel metal	22.5 pounds per day
Facility-wide	4-methyl-2-pentanone MIBK	311.6 pounds per hour 9,617.5 pounds per day

Emission Source(s)	Toxic Air Pollutant(s)	Emission Limit(s)
Facility-wide	di(2-ethylhexyl)phthalate	112.7 pounds per day
Facility-wide	o-xylene, m-xylene p-xylene	675.1 pounds per hour 10,143 pounds per day
Facility-wide	Toluene	581.7 pounds per hour 17,657 pounds per day
Four natural gas/No. 6 fuel oil/No. 2 fuel oil/recycled No. 6 fuel oil-fired boilers (77.4 million Btu per hour heat input capacity, each) (ID Nos. <b>BL01, BL02, BL03, and BL04</b> ) Two natural gas-fired inert gas generators (3.5 and 7.0 million Btu per hour heat input capacity, respectively) (ID Nos. <b>B53 and D53</b> )	Arsenic chromium VI Manganese Beryllium Formaldehyde Mercury	12.6 pounds per year 4.5 pounds per year 3.4 pounds per day 8.1 pounds per year 0.07 pounds per hour 0.02 pounds per day

- b. To ensure compliance with the toxic air pollutant emission limits listed above, the Permittee shall not exceed 768 million pounds of rubber production per consecutive 12-month period. The Permittee shall maintain records demonstrating that this production limit has not been exceeded.

**State-enforceable only**

**3. 15A NCAC 2D .1806: CONTROL AND PROHIBITION OF ODOROUS EMISSIONS**

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

**State-enforceable only**

**4. 15A NCAC 2Q .0711: TOXIC AIR POLLUTANT EMISSIONS LIMITATION REQUIREMENT**  
Pursuant to 15A NCAC 2Q .0711 "Emission Rates Requiring a Permit," for each of the toxic air pollutants (TAPs) listed below, the Permittee has made a demonstration that facility-wide actual emissions do not exceed the Toxic Permit Emission Rates (TPERs) listed in 15A NCAC 2Q .0711. The facility shall be operated and maintained in such a manner that emissions of any listed TAPs from the facility, including fugitive emissions, will not exceed the TPERs listed in 15A NCAC 2Q .0711.

- a. A permit to emit any of the below listed TAPs shall be required for this facility if actual emissions from all sources will become greater than the corresponding TPERs.  
b. Prior to exceeding any of these listed TPERs, the Permittee shall be responsible for obtaining a permit to emit TAPs and for demonstrating compliance with the requirements of 15A NCAC 2D .100, Control of Toxic Air Pollutants.  
c. In accordance with the approved application, the Permittee shall maintain records of operational information demonstrating that the TAP emissions do not exceed the TPERs as listed below:

Pollutant (CAS Number)	TPERs Limitations			
	Carcinogens (lb/yr)	Chronic Toxicants (lb/day)	Acute Systemic Toxicants (lb/hr)	Acute Irritants (lb/hr)
acetaldehyde 75-07-0				6.8
benzo(a)pyrene 50-32-8	2.2			
carbon tetrachloride 56-23-5	460			
1,4-dichlorobenzene 106-46-7				16.8

Pollutant (CAS Number)	TPERs Limitations			
	Carcinogens (lb/yr)	Chronic Toxicants (lb/day)	Acute Systemic Toxicants (lb/hr)	Acute Irritants (lb/hr)
dichlorodifluoromethane 75-71-8		5,200		
ethylene dichloride 107-06-2	260			
methyl ethyl ketone 78-93-3		78		22.4
phenol 108-95-2			0.24	
styrene 100-42-5			2.7	

**5. 15A NCAC 2D .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 (lb/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

- b. Emissions of each HAP not listed in Section 2.2 A. 5. a. of this permit must not exceed 20 pounds per ton (lb/ton) of total cements and solvents used at the tire production affected source.
- 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.

**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 2D .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.

**State-enforceable only**

**6. 15A NCAC 2Q .0705: EXISTING FACILITIES AND SIC CALLS**

- a. As of **February 2003 and revised November 19, 2007** emissions of toxic air pollutants have been demonstrated on a facility-wide basis (excluding those sources exempt under 15A NCAC 2Q .0702 "Exemptions") that each of the toxic air pollutants (TAPs) emitted from all sources at the facility are either below its respective toxic permit emission rates (TPER) listed in 15A NCAC 2Q .0711 - "Emission Rates Requiring a Permit" or the TAPs are in compliance with 15A NCAC 2D .1100 "Control of Toxic Air Pollutants" as described elsewhere in this permit.
- b. The facility shall be operated and maintained in such a manner that any new, existing or increased actual emissions of any TAP listed in 15A NCAC 2Q .0711 or in this permit from all sources at the facility (excluding those sources exempt under 15A NCAC 2Q .0702 "Exemptions"), including fugitive emissions and emission sources not otherwise required to have a permit, will not exceed its respective TPER listed in 15A NCAC 2Q .0711 without first obtaining an air permit to construct or operate.
- c. PRIOR to exceeding any of the TPERs listed in 15A NCAC 2Q .0711, the Permittee shall be responsible for obtaining an air permit to emit TAPs and for demonstrating compliance with the requirements of 15A NCAC 2D .1100 "Control of Toxic Air Pollutants".
- d. The Permittee shall maintain at the facility records of operational information sufficient for demonstrating to the Division of Air Quality staff that actual TAPs are less than the rate listed in 15A NCAC 2Q .0711.

## **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 regenerative thermal oxidizer (ID No. RTO-1),**  
**Banbury mixer #2 (ID No. BB02-L9-1) with associated bagfilter (ID No. DC-14) and regenerative thermal oxidizer (ID No. RTO-1),**  
**Banbury mixer #6A (ID No. BB06A-V9-1) with associated bagfilter (ID No. DC-19) and regenerative thermal oxidizer (ID No. RTO-1),**  
**Banbury mixer #7 (ID No. BB07-AE8-1) with associated bagfilter (ID No. DC-20) and regenerative thermal oxidizer (ID No. RTO-1), 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)**

### **1. 15A NCAC 2D .0530: PREVENTION OF SIGNIFICANT DETERIORATION**

- a. Emissions of VOCs resulting from the use of a coupling agent in any affected Banbury mixer (**ID Nos. BB01-K9-1, BB02-L9-1, 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. BB01-K9-1, BB02-L9-1, BB06A-V9-1, and/or BB07-AE8-1, and BB08-CE8-1**) using the regenerative thermal oxidizer (**ID No. RTO-1**).
  - 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 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 be deemed in non-compliance with 15A NCAC 2D .0530 if the control device is 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 2D .0530.

**Monitoring/Recordkeeping** [15A NCAC 2Q .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 lb/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 lb/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 2D .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 oxidizer (**ID No. RTO-1**). The CMS shall be operated whenever use of the 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 2D .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 the regenerative thermal oxidizer (**ID No. RTO-1**) to control associated VOC emissions; or
    - B. The 3-hour average temperature of the regenerative thermal oxidizer (**ID No. RTO-1**) 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.

## 2.3 – 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)**  
**Blend room operations (ID No. BO01) including one bailer, one weigh hopper, and two mixers with associated bagfilter (ID No. DC-10)**  
**One pellet feed system operation (ID No. BO02) including seven rubber pellet material systems with associated bagfilters (ID Nos. DC-22 through DC-28)**  
**One Banbury mixer #1 (ID No. BB01-K9-1) with associated bagfilter (ID No. DC-13) and regenerative thermal oxidizer (ID No. RTO-1)**  
**Two pellet coolers (ID Nos. BB01-K11B-1 and BB01-K11B-2) with associated dust collectors/cyclones (ID Nos. DC-108 and DC-109)**  
**One pellet loader (ID No. BB01-K-12) with associated dust collector/bagfilter (ID No. DC-110)**  
**One Banbury mixer #2 (ID No. BB02-L9-1) with associated bagfilter (ID No. DC-14) and regenerative thermal oxidizer (ID No. RTO-1)**  
**Two pellet coolers (ID Nos. BB02-L11B-1 and BB02-L11B-2) with associated dust collectors/cyclones (ID Nos. DC-111 and DC-112)**  
**One pellet loader (ID No. BB02-L-12) with associated dust collector/bagfilter (ID No. DC-110)**  
**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)**

**One Banbury mixer #7 (ID No. BB07-AE8-1) with associated bagfilter (ID No. DC-20)**  
~~**One pellet loader (ID No. BB07-AE-12) with associated dust collector/bagfilter (ID No. DC-115)**~~

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

~~**Two pellet coolers (ID Nos. BB08-CE11B-1 and BB08-CE11B-2) with associated dust collectors/ cyclones (ID Nos. DC-116 and DC-117)**~~

~~**One pellet loader (ID No. BB08-CE-12) with associated dust collector/bagfilter (ID No. DC-115)**~~

**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. 1, 2, and 3 dump sinks (ID No. PDS-1) with associated bagfilter (ID No. DC-171)**

**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)**

**Three four-roll calendar operations (ID Nos. EBP-CAL1, CAL2 and CAL3)**

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

**Three mold cleaner processes (ID Nos. KE60, LE60, and LE61) with associated bagfilters (ID Nos. DC-93, 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 2D .0614
Volatile organic compounds	(ID No. RTO-1 controlled sources only) Compliance Assurance Monitoring (CAM)	15A NCAC 2D .0614

1. **15A NCAC 2D .0614: COMPLIANCE ASSURANCE MONITORING** - Pursuant to 15A NCAC 2Q .0512(a)(1)(B) “Permit Shield and Application Shield, with the issuance of permit (00011T37), the following stipulation of non-applicability has been made:
  - a. 15A NCAC 2D .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 2D .0614 does not apply to the permitted sources listed above that are controlled by the regenerative thermal oxidizer (ID No. RTO-1) 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.

## 2.4 – All the Affected Sources as identified in application 2600050.08B

1. **15A NCAC 2D. 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 2D .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).

## 2.5 - Filing a Title V application and Notification Requirement

- a) The Permittee shall file a Title V Air Quality Permit Application pursuant to 15A NCAC 2Q .0504 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) on or before 12 months after commencing operation of any of these sources.
- b) Within 15 days after start up of any of these sources listed in 2.5 a) the Permittee shall provide written notice of the start up to the DAQ Regional Office Supervisor.

## SECTION 3 - GENERAL CONDITIONS (version 3.4)

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

- A. **General Provisions** [NCGS 143-215 and 15A NCAC 2Q .0508(i)(16)]
  1. Terms not otherwise defined in this permit shall have the meaning assigned to such terms as defined in 15A NCAC 2D and 2Q.
  2. The terms, conditions, requirements, limitations, and restrictions set forth in this permit are binding and enforceable pursuant to NCGS 143-215.114A and 143-215.114B, including assessment of civil and/or criminal penalties. Any unauthorized deviation from the conditions of this permit may constitute grounds for revocation

and/or enforcement action by the DAQ.

3. This permit is not a waiver of or approval of any other Department permits that may be required for other aspects of the facility which are not addressed in this permit.
4. This permit does not relieve the Permittee from liability for harm or injury to human health or welfare, animal or plant life, or property caused by the construction or operation of this permitted facility, or from penalties therefore, nor does it allow the Permittee to cause pollution in contravention of state laws or rules, unless specifically authorized by an order from the North Carolina Environmental Management Commission.
5. Except as identified as state-only requirements in this permit, all terms and conditions contained herein shall be enforceable by the DAQ, the EPA, and citizens of the United States as defined in the Federal Clean Air Act.
6. Any stationary source of air pollution shall not be operated, maintained, or modified without the appropriate and valid permits issued by the DAQ, unless the source is exempted by rule. The DAQ may issue a permit only after it receives reasonable assurance that the installation will not cause air pollution in violation of any of the applicable requirements. A permitted installation may only be operated, maintained, constructed, expanded, or modified in a manner that is consistent with the terms of this permit.

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

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

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

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

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

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

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

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 2Q .0508(i)(2)]

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

F. **Circumvention** - STATE ENFORCEABLE ONLY

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

G. **Permit Modifications**

1. Administrative Permit Amendments [15A NCAC 2Q .0514]

The Permittee shall submit an application for an administrative permit amendment in accordance with 15A NCAC 2Q .0514.

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

#### H. **Changes Not Requiring Permit Modifications**

##### 1. Reporting Requirements

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

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

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

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

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

##### 3. Off Permit Changes [15A NCAC 2Q .0523(b)]

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

- a. the change affects only insignificant activities and the activities remain insignificant after the change; or
- b. the change is not covered under any applicable requirement.

##### 4. Emissions Trading [15A NCAC 2Q .0523(c)]

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

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

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

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

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

Excess Emissions

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

Permit Deviations

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

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

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

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

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

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

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

include noncompliance to the extent caused by improperly designed equipment, lack of preventive maintenance, careless or improper operation, or operator error.

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

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

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

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

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

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

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

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

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

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

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

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

The Permittee shall submit to the DAQ and the EPA (Air and EPCRA Enforcement Branch, EPA, Region 4, 61

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Subpart F.

3. The Permittee shall comply with all reporting and recordkeeping requirements of 40 CFR ' 82.166. Reports shall be submitted to the EPA or its designee as required.

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

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

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

**FEDERALLY-ENFORCEABLE ONLY**

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

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

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

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

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

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

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

**II. Ambient Air Quality Standards** [15A NCAC 2D .0501(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 2D .0400 to be exceeded at any point beyond the premises on which the source is located. When controls more stringent than named in the applicable emission standards in this permit are required to prevent violation of the ambient air quality standards or are required to create an offset, the permit shall contain a condition requiring these controls.

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

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 2D.

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 2D .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. 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:
    - (1) 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.
    - (2) Prescribe alternate test procedures on an individual basis when he finds that the alternative method is necessary to secure more reliable test data.
    - (3) 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 2D .2600 has precedence over all other tests.

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

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

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

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

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

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

haul roads).

NN. **Specific Permit Modifications** [15A NCAC 2Q.0501 and .0523]

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

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

OO. **Third Party Participation and EPA Review** [15A NCAC 2Q .0521, .0522 and .0525(7)]

For permits modifications subject to 45-day review by the federal Environment 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 2Q .0518 begins at the end of the 45-day EPA review period.

ATTACHMENT

**List of Acronyms**

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