

ROY COOPER
Governor

ELIZABETH S. BISER
Secretary

MICHAEL ABRACZINSKAS
Director



NORTH CAROLINA
Environmental Quality

XXX xx, 2021

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

Dear Mr. Becker:

SUBJECT: Air Quality Permit No. 00011T54
Facility ID: 2600050
The Goodyear Tire & Rubber Company
Fayetteville, North Carolina
Cumberland County
Fee Class: Title V
PSD Status: Major

In accordance with your completed Air Quality Permit Application (2600050.19C) for a Renewal of your Title V Permit received August 08, 2019, and 502(b)(10)s applications 2600050.19A, 2600050.19B, 2600050.19D, 2600050.20A, 2600050.20B, 2600050.20C, 2600050.21B, and 2600050.21C received respectively on January 14, 2019, February 15, 2019, November 13, 2019, December 31, 2019, August 06, 2020, October 15, 2020, March 24, 2021, and July 7, 2021, we are forwarding Air Quality Permit No. 00011T54 to The Goodyear Tire & Rubber Company, located at 6650 Ramsey Street, Fayetteville, North Carolina authorizing the construction and operation, of the emission source(s) and associated air pollution control device(s) specified herein. Additionally, any emissions activities determined from your Air Quality Permit Application as being insignificant per 15A North Carolina Administrative Code 2Q .0503(8) have been listed for informational purposes as an "ATTACHMENT." Please note the requirements for the annual compliance certification are contained in General Condition P in Section 3. The current owner is responsible for submitting a compliance certification for the entire year regardless of who owned the facility during the year.

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

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



North Carolina Department of Environmental Quality | Division of Air Quality
217 West Jones Street | 1641 Mail Service Center | Raleigh, North Carolina 27699-1641
919.707.8400

the Office of Administrative Hearings.

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.

Cumberland County has triggered increment tracking under PSD for PM₁₀, SO₂, and NO_x. This renewal and modifications will result in an increase in 0.37 pounds per hour of PM₁₀, 1.1 pounds per hour of NO_x, and 0.01 pounds per hour of SO₂.

This Air Quality Permit shall be effective from XXX xx, 2021 (Enter Permit Issuance Date) until XXX xx, 2026 (Enter Permit Expiration Date), is nontransferable to future owners and operators, and shall be subject to the conditions and limitations as specified therein.

Should you have any questions concerning this matter, please contact Mr. Gautam Patnaik at (919) 707-8735 or gautam.patnaik@ncdern.gov.

Sincerely yours,

Mark J. Cuilla, EIT, CPM, Chief, Permitting Section
Division of Air Quality, NCDEQ

Enclosure

c: Michael Sparks, EPA Region 4 (permit and review)
Fayetteville Regional Office
Central Files
Connie Horne (cover letter only)

ATTACHMENT to Permit No. 00011T54

Insignificant Activities per 15A NCAC 02Q .0503(8)

Emission Source ID No.	Emission Source Description
IES-1	Water storage furnace/boiler(1.8 million Btu/hr)
IES-2	Marking operation consisting of Tread and Fabric Marking, Defective Tread Marking, Fabric Marking, and Bead Marking
IES-5	Tank farms #1 through #7
IES-6	Oil scales #1 through #8
I-ESFP1	Emergency fire pump with diesel-fired engine with ratings of 220 hp (subject to NSPS IIII and MACT ZZZZ)
I-ESFP2	Emergency fire pump with diesel-fired engine with ratings of 220 hp [MACT ZZZZ]
I-EG1	300 hp diesel fired emergency generator (subject to MACT Subpart ZZZZ)
I-EG2	259 hp natural gas-fired back up generator (subject to NSPS Subpart JJJJ and MACT Subpart ZZZZ)
IES-8	Fork oil and transmission fluid tanks
I-BS01	Bladder Spray
I-MISC	Miscellaneous Solvents
I-TD01	Tire Mold Release Lube
IB53	Natural gas-fired inert gas generator(3.5 Btu per hour maximum heat input capacity)
ID53	Natural gas-fired inert gas generator(7.0 million Btu per hour maximum heat input capacity)
I-SM01	Slurry mixer
I-LE60 & I-LE61	Two mechanical mold cleaners

1. Because an activity is insignificant does not mean that the activity is exempted from an applicable requirement or that the owner or operator of the source is exempted from demonstrating compliance with any applicable requirement.
2. When applicable, emissions from stationary source activities identified above shall be included in determining compliance with the permit requirements for toxic air pollutants under 15A NCAC 02D .1100 “Control of Toxic Air Pollutants” or 02Q .0711 “Emission Rates Requiring a Permit”.
3. For additional information regarding the applicability of MACT or GACT see the DAQ page titled “Specific Permit Conditions Regulatory Guide.” The link to this site is as follows:
<http://deq.nc.gov/about/divisions/air-quality/air-quality-permits/specific-permit-conditions-regulatory-guide>.

Summary of Changes to Permit

The following changes were made to The Goodyear Tire & Rubber Company – Fayetteville, NC, Air Permit 0011T53

Pages	Section	Description of Changes
Insignificant Activities		Removed six bead tuber units (IES-4)
17	2.1 A. 5.,	Removed “Case-by-Case MACT” for boilers (from previous permit)
5	Sources Summary table	Replaced natural gas-fired regenerative thermal oxidizer (RTO-1)
11	Sources Summary table	Installed three bead apexers TL13, TL14, and TL15.
11	Sources Summary table	Verified total curing presses to two hundred and fifty -three
12	Sources Summary table	Removed booths GTS-GT-S1, GTS-GT-S3, and GTS-GT-S4.
12	Sources Summary table	Installed two green tire spray operations booths GTS-GT-S8 and GTS-GT-S9
13	Sources Summary table	Installed Force Grinders (Nos FG-301, FG-302, and FG-304)
14	Sources Summary table	Installed four Matuezzi horizontal grinders MHG1 through MHG4
14	Sources Summary table	Installed Bead Apexer #8 (TL12)
15	2.1 A. 4.,	Updated boiler MACT regulations
22	2.1 B. 5.,	NSPS avoidance for temporary boilers (ID No. TMP01)
22	2.1 B.6.,	Updated MACT avoidance for temporary boilers (ID No. TMP01)
30	2.1 D. 2.	BACT - “Work Practices” standard for two hundred and fifty-three curing presses (ID Nos. GTS-CP-001 through GTS-CP-253)
39 through 49	General Conditions	Updated “General Conditions”



AIR QUALITY PERMIT

Permit No.	Replaces Permit No.	Effective Date	Expiration Date
00011T54	00011T53	XXX xx, xxxx	XXX xx, xxxx

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

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

Permittee: **The Goodyear Tire & Rubber Company**

Facility ID: **2600050**

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

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

Application Numbers: **2600050.19A, 19B, .19C, .19D, .20A, .20B, .20C, .21B, .21C**
Complete Application Dates: **1/14/19, 2/15/19, 8/8/2019, 11/13/19, 12/32/19, 8/6/20, 10/15/20, 3/24/21, 7/7/21, respectively**

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 xxth day of XXX, xxxx

Mark J. Cuilla, EIT, CPM, Chief, Air Permitting 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:

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

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

Page #	Emission Source ID No.	Emission Source Description	Control Device ID No.	Control Device Description
Banbury Processes				
Banbury Process #1 consisting of:				
<u>25</u>	BB01-K9-1 (BACT; MACT XXXX)	Banbury Mixer #1	DC-13 RTO-1 RTO-2	One bagfilter (4,515 square feet of filter area, minimum) AND/OR in series with: One natural gas-fired regenerative thermal oxidizer (11.56 million Btu per hour maximum heat input capacity, 40,000 acfm) AND/OR One natural gas-fired regenerative thermal oxidizer (15 million Btu per hour maximum heat input capacity, 50,000 acfm)
Banbury Process #2 consisting of:				

Page #	Emission Source ID No.	Emission Source Description	Control Device ID No.	Control Device Description
25	BB02-L9-1 (PSD BACT, MACT XXXX)	Banbury Mixer #2	DC-14 RTO-1 RTO-2	One bagfilter (4,515 square feet of filter area, minimum), AND/OR in series with: One natural gas-fired regenerative thermal oxidizer (11.56 million Btu per hour maximum heat input capacity, 40,000 acfm) AND/OR One natural gas-fired regenerative thermal oxidizer (15 million Btu per hour maximum heat input capacity, 50,000 acfm)
Banbury Process #3 consisting of:				

Page #	Emission Source ID No.	Emission Source Description	Control Device ID No.	Control Device Description
25	BB03-M9-1 (PSD BACT, MACT XXXX)	Banbury Mixer #3	DC-15 RTO-1 RTO-2	One bagfilter (4,515 square feet of filter area, minimum) AND/OR in series with: One natural gas-fired regenerative thermal oxidizer (11.56 million Btu per hour maximum heat input capacity, 40,000 acfm) AND/OR One natural gas-fired regenerative thermal oxidizer (15 million Btu per hour maximum heat input capacity, 50,000 acfm)
Banbury Process #4 consisting of:				
25	BB04-P9-1 (MACT XXXX)	Banbury Mixer #4	DC-16	One bagfilter (4,515 square feet of filter area, minimum)
Banbury Process #5 consisting of:				
25	BB05-Q9-1 (MACT XXXX)	Banbury Mixer #5	DC-17	One bagfilter (4,515 square feet of filter area, minimum)
Banbury Process #6 consisting of:				
25	BB06-R9-1 (MACT XXXX)	Banbury Mixer #6	DC-18	One bagfilter (4,515 square feet of filter area, minimum)
Banbury Process #6A consisting of:				

Page #	Emission Source ID No.	Emission Source Description	Control Device ID No.	Control Device Description
25	BB06A-V9-1 (PSD BACT, MACT XXXX)	Banbury Mixer #6A	DC-19	One bagfilter (3,822 square feet of filter area, minimum) AND/OR in series with:
			RTO-1	One natural gas-fired regenerative thermal oxidizer (11.56 million Btu per hour maximum heat input capacity, 40,000 acfm)
			RTO-2	AND/OR One natural gas-fired regenerative thermal oxidizer (15 million Btu per hour maximum heat input capacity)

Page #	Emission Source ID No.	Emission Source Description	Control Device ID No.	Control Device Description
Banbury Process #7 consisting of:				
25	BB07-AE8-1 (PSD BACT, MACT XXXX)	Banbury Mixer #7	DC-20 RTO-1 RTO-2	One bagfilter (4,515 square feet of filter area, minimum) AND/OR in series with: One natural gas- fired regenerative thermal oxidizer (11.56 million Btu per hour maximum heat input capacity, 40,000 acfm) AND/OR One natural gas- fired regenerative thermal oxidizer (15 million Btu per hour maximum heat input capacity)
Banbury Process #8 consisting of:				

Page #	Emission Source ID No.	Emission Source Description	Control Device ID No.	Control Device Description
25	BB08-CE8-1 (PSD BACT, MACT XXXX)	Banbury Mixer #8	DC-21 RTO-1 RTO-2	One bagfilter (3,822 square feet of filter area, minimum) AND/OR in series with: One natural gas-fired regenerative thermal oxidizer (11.56 million Btu per hour maximum heat input capacity, 40,000 acfm) AND/OR One natural gas-fired regenerative thermal oxidizer (15 million Btu per hour maximum heat input capacity)
Slurry Mix Operation consisting of:				
25	PDS-2 (MACT XXXX)	Banbury mixer Nos. 5 and 6 dump sinks	DC-172 and 173	Two bagfilters (4,560 square feet of filter area each, minimum)
Tuber Operations				
Rubber Extrusion Process consisting of:				
5	TL07 TL08 TL09 TL10 TL11 TL12 (MACT XXXX)	Six non-cementing rubber extrusion lines/tubers, (Nos. 7, 8, 9, 10, 11, and 12)	NA	NA
29	TL03 (NSPS BBB, MACT XXXX)	One cementing rubber extrusion line/tuber (No. 3) consisting of one tread end cement operation (M23-2)	NA	NA
29	TL04 (NSPS BBB, MACT XXXX)	One cementing rubber extrusion line/tuber (No. 4) consisting of one tread end cement operation (P23-2)	NA	NA
29	TL05 (NSPS BBB, MACT XXXX)	One cementing rubber extrusion line/tuber (No. 5) consisting of one tread end cement operation (AE23-2)	NA	NA
26	TL13, TL14, TL15	Three bead apexers	NA	NA

Page #	Emission Source ID No.	Emission Source Description	Control Device ID No.	Control Device Description
26	QE01 (MACT XXXX)	One cold feed quad extruder	NA	NA
26	QE02	one 60-inch mill	NA	NA
26	QE03	one bead winder with a small cold feed extruder	NA	NA
Calendar Operations				
Fabric Calendar Process consisting of:				
25	FABR-G18 (MACT XXXX)	One line vacuum for fabric calendar process	NA	NA
26	FABR-G25 (MACT XXXX)	One windup process for fabric calendar process	NA	NA
Calendar Lines and Electron Beam Process consisting of:				
26	EBP-W27 (MACT XXXX)	One windup for wire calendar process	NA	NA
26	EBP-CAL1 (MACT XXXX)	One four roll calendar process No. 1 (with an electronic beam process)	NA	NA
26	CAL2 (MACT XXXX)	One four-roll calendar processes (No. 2)	NA	NA
26	CAL4 (MACT XXXX)	One gum roll calendar process	NA	NA
Tire Press Operations				
29	GTS-CP-001 through GTS-CP-253 (BACT; NSPS BBB, MACT XXXX)	† Two hundred and fifty-three tire curing presses, each consisting of two curing cavities	NA	NA
29	GTS-GT-S2, GTS-GT-S5, GTS-GT-S6, GTS-GT-S7, GTS-GT-S8, GTS-GT-S9 and GTS-GT-S10 (NSPS BBB, MACT XXXX)	Seven tire/mold release lube spray (green tire spray) operations booths	NA	NA
Grinding Operations				
White Sidewall Grinders Operation Bank #1 consisting of:				
26	Q64 (MACT 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)
26	P63 (MACT XXXX)	White Sidewall Grinders Operation Bank #1 - Sidewall Grinder (No. SG-106)	DC-31	One self-induced spray scrubber (20,000 ACFM, minimum)
Force Grinder Operation Bank #1 consisting of:				
26	Q66 (MACT XXXX)	Force Grinders (Nos. FG-101 through FG-109 and FG-201 through FG-208)	DC-48	One self-induced spray scrubber (20,000 ACFM, minimum)
Force Grinder Operation Bank #2 consisting of:				

Page #	Emission Source ID No.	Emission Source Description	Control Device ID No.	Control Device Description
26	WX66 (MACT XXXX)	Force Grinders (Nos. FG-209 through FG-215 and FG-301, FG-302, and FG-304)	DC-65	One self-induced spray scrubber (20,000 ACFM, minimum)
Force Grinder Operation Bank #3 consisting of:				
26	FE66 (MACT XXXX)	Force Grinders (Nos. FG-305 through FG-316)	DC-77	One self-induced spray scrubber (20,000 ACFM, minimum)
Bench Grinder Mount Grinder Operation Bank #5 consisting of:				
26	AE71 (MACT XXXX)	BGM Grinders (Nos. BGM1 and BGM2)	DC-166	One rotoclone (self-induced wet scrubber) (7,500 ACFM, minimum)
Matuezzi Force Grinder Operation Bank #7 consisting of:				
26	UE70 (MACT XXXX)	MFG Grinders (Nos. MFG5 – MFG9)	DC-168	One rotoclone (self-induced wet scrubber) (7,500 ACFM)
Run-Out Grinder Operation #9 consisting of:				
26	MG1 (MACT XXXX)	One Collman Grinder	DC-170	One bagfilter (110 square feet of filter area, minimum)
Matuezzi Horizontal Grinder Operation Bank #10 Horizontal Grinders consisting of:				
26	MHG1 through MHG4 (MACT XXXX)	Four Matuezzi horizontal grinders	DC-167	One rotoclone (self-induced wet scrubber) (7,500 ACFM, minimum)
Tire Repair Process consisting of:				
26	TR01-F67 TR01-F69 (MACT XXXX)	Tire Repair Tables 2 and 3	DC-91	One dust cyclone (30 inches in diameter, minimum)
26	TR01-AE63 (MACT XXXX)	Tire Repair Table 4	DC-31	One self-induced spray scrubber (20,000 ACFM, minimum)
Facility-Wide				
26	FWS1	Solvent and Cement Use	NA	NA

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

SECTION 2 - SPECIFIC LIMITATIONS AND CONDITIONS

2.1 - Emission Source(s) and Control 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)

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

Regulated Pollutant	Limits/Standards	Applicable Regulation
Particulate matter	(ID Nos. BL01 through BL04) 0.25 pounds per million Btu heat input	15A NCAC 02D .0503
Sulfur dioxide	2.3 pounds per million Btu heat input	15A NCAC 02D .0516
Visible emissions	(ID Nos. BL01 through BL04) 40 percent opacity	15A NCAC 02D .0521
	(ID Nos. BL01 through BL04) Work Practice Standards and Energy Assessment Requirements	15A NCAC 02D .1111: (MACT Subpart DDDDD)

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

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

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

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

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

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

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

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

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

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

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

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

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

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

All instances of deviations from the requirements of this permit must be clearly identified.

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

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

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

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

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

- c. No monitoring/recordkeeping is required for visible emissions from the firing of natural gas or No. 2 fuel oil in these sources (**ID Nos. BL01 through BL04**).
- d. To ensure compliance while firing No. 6 fuel oil or recycled No. 6 fuel oil, the Permittee shall observe the emission points of these sources (**ID Nos. BL01 through BL04**) daily, for any visible emissions above normal. The daily observation must be made for each day of the calendar year period to ensure compliance with this requirement. The Permittee shall be allowed three (3) days of absent observations per semi-annual period. If visible emissions from these sources are observed to be above normal, the Permittee shall either:
 - i. take appropriate action to correct the above-normal emissions as soon as practicable and within the

monitoring period and record the action taken as provided in the recordkeeping requirements below, or

- ii. demonstrate that the percent opacity from the emission points of the emission source in accordance with 15A NCAC 02D .2610 (Method 9) for 12 minutes is below the limit given in 2.1 A.3.a, above.

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

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

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

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

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

4. 15A NCAC 02D .1111: MAXIMUM ACHIEVABLE CONTROL TECHNOLOGY

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

- a. For these sources (ID Nos. (**ID Nos. BL01 through BL04**) (i.e., *existing sources designed to burn gas / fuels, with liquid fuel during curtailment, with a heat input capacity equal to or greater than 10 million Btu per hour and with oxygen trim systems*), the Permittee shall comply with all applicable provisions, including the monitoring, recordkeeping, and reporting contained in Environmental Management Commission Standard 15A NCAC 02D .1111 "Maximum Achievable Control Technology" (MACT) as promulgated in 40 CFR 63, Subpart DDDDD, "National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters" and Subpart A "General Provisions."

Definitions and Nomenclature [40 CFR 63.7575]

- b. For the purpose of this permit condition, the definitions and nomenclature contained in 40 CFR 63.7575 shall apply.

Operating Restriction [15A NCAC 02Q .0508(b)]

- c. The Permittee shall only burn liquid fuel for periodic testing of liquid fuel, maintenance, or operator training, not to exceed a combined total of 48 hours during any calendar year, and during periods of gas curtailment or gas supply interruptions of any duration. The Permittee shall be deemed in noncompliance with 15A NCAC 02D .1111 if these operating restrictions are not met.

40 CFR Part 63 Subpart A General Provisions [40 CFR 63.7565]

- d. The Permittee shall comply with the requirements of 40 CFR 63 Subpart A, "General Provisions" according to the applicability of Subpart A to such sources as identified in Table 10 to 40 CFR Part 63, Subpart DDDDD.

Compliance Date [40 CFR 63.7510(e), 63.56(b)]

- e. The Permittee shall complete the initial tune up and the one-time energy assessment no later than May 20, 2019. (***These requirements have been met.***)

Notifications [40 CFR 63.7545(e); 63.7530(e), (f)]

- f. The Permittee shall submit a Notification of Compliance Status. The notification must be signed by a responsible official and submitted by July 19, 2019. (***This requirement has been met.***)
- g. The Permittee shall submit a notification of intent to fire an alternative fuel (i.e., fuel oil) within 48 hours of the declaration of each period of natural gas curtailment or supply interruption. The notification must include the information in 40 CFR 63.7545(f). [40 CFR 63.7545(f)] The Permittee shall be deemed in noncompliance with 15A NCAC 02D .1111 if this notification requirement is not met.

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

- h. The following work practice standards apply:
 - i. The Permittee shall conduct a tune-up every five years while burning the type of fuel (or fuels in case of units that routinely burn a mixture) that provided the majority of the heat input to the boiler or process heater over the 12 months prior to the tune-up as specified below.
 - (A) As applicable, inspect the burner, and clean or replace any components of the burner as necessary. The Permittee may delay the burner inspection until the next scheduled or unscheduled unit shutdown, but must inspect each burner at least once every 72 months.
 - (B) Inspect the flame pattern, as applicable, and adjust the burner as necessary to optimize the flame pattern. The adjustment should be consistent with the manufacturer's specifications, if available.
 - (C) Inspect the system controlling the air-to-fuel ratio, as applicable, and ensure that it is correctly calibrated and functioning properly (the Permittee may delay the inspection until the next scheduled unit shutdown).
 - (D) Optimize total emissions of CO. This optimization should be consistent with the manufacturer's specifications, if available, and with any NO_x requirement to which the unit is subject.
 - (E) Measure the concentrations in the effluent stream of CO in parts per million, by volume, and oxygen in volume percent, before and after the adjustments are made (measurements may be either on a dry or wet basis, as long as it is the same basis before and after the adjustments are made). Measurements may be taken using a portable CO analyzer.
 - (F) The Permittee shall set the oxygen level on the oxygen trim system no lower than the oxygen concentration measured during the most recent tune-up.
[40 CFR 63.7500(a); 63.7540(a)(10), (12)]
 - ii. Each five-year tune-up shall be conducted no more than 61 months after the previous tune-up. [40 CFR 63.7515(d)]
 - iii. If the unit is not operating on the required date for a tune-up, the tune-up must be conducted within 30 calendar days of startup. [40 CFR 63.7540(a)(13), 63.7515(g)]
 - iv. At all times, the Permittee shall operate and maintain any affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator that may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source. [40 CFR 63.7500(a)(3)]
The Permittee shall be deemed in noncompliance with 15A NCAC 02D .1111 if these work practice requirements are not met.

Energy Assessment Requirements

- i. The Permittee shall have a one-time energy assessment performed by a qualified energy assessor. (***This requirement has been met.***)
[40 CFR 63.7500(a)(1), Table 3]

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

- j. The Permittee shall:
- i. keep a copy of each notification and report submitted to comply with this subpart, including all documentation supporting any Initial Notification or Notification of Compliance Status, or semiannual compliance report that has been submitted, according to the requirements in 40 CFR 63.10(b)(2)(xiv). [40 CFR 63.7555(a)(1)]
 - ii. maintain on-site and submit, if requested by the DAQ, an annual report containing the information in paragraphs (A) through (C) below:
 - (A) the concentrations of carbon monoxide in the effluent stream in parts per million by volume, and oxygen in volume percent, measured at high fire or typical operating load, before and after the tune-up of the source;
 - (B) a description of any corrective actions taken as a part of the tune-up; and
 - (C) the type and amount of fuel used over the 12 months prior to the tune-up, but only if the unit was physically and legally capable of using more than one type of fuel during that period. Units sharing a fuel meter may estimate the fuel use by each unit.[40 CFR 63.7540(a)(10)(vi)]
 - iii. keep the associated records for **Section 2.1 A. 4. h., through i.,**
 - iv. keep the following records, pursuant to 15A NCAC 02Q .0508(f) and 40 CFR 63.7555(h):
 - (A) types of fuels combusted during periods of gas curtailment, gas supply interruption, periodic testing maintenance and operator training;
 - (B) date and duration of periods of gas curtailment and gas supply interruption; and
 - (C) date and duration of periods of testing, maintenance and operator training while combusting liquid fuel.
 - v. keep:
 - (A) records in a form suitable and readily available for expeditious review;
 - (B) each record for 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record; and
 - (C) each record on site for at least 2 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record. The Permittee can keep the records offsite for the remaining 3 years.[40 CFR 63.7560, 63.10(b)(1)]

The Permittee shall be deemed in noncompliance with 15A NCAC 02D .1111 if these recordkeeping requirements are not met or if the records show an exceedance of the operating restriction given in **Section 2.1 A 4. c., above.**

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

- k. The following reporting requirements shall apply:
- i. The Permittee shall submit compliance reports to the DAQ on a five-year basis. The first report shall be postmarked on or before January 30, 2024 covering the compliance period from May 20, 2019 through December 31, 2023. Subsequent five-year reports shall cover the periods from January 1 to December 31. The Permittee shall submit the compliance reports postmarked on or before January 30 for the preceding five-year period. [40 CFR 63.7550(a), (b)]
 - ii. The compliance report must also be submitted electronically to the EPA via the Compliance and Emissions Data Reporting Interface (CEDRI). CEDRI can be accessed through the EPA's Central Data Exchange (CDX) (<https://cdx.epa.gov/>.) The Permittee shall use the appropriate electronic report in CEDRI for this subpart. Instead of using the electronic report in CEDRI for this subpart, the Permittee shall submit an alternate electronic file consistent with the XML schema listed on the CEDRI Web site (<http://www.epa.gov/ttn/chief/cedri/index.html>), once the XML schema is available. If the reporting form specific to this subpart is not available in CEDRI at the time that the report is due, the Permittee shall submit the report to the Administrator at the appropriate address listed in 40 CFR 63.13. The Permittee shall begin submitting reports via CEDRI no later than 90 days after the form becomes available in CEDRI. [40 CFR 63.7550(h)(3)]
 - iii. The compliance report must contain the following information:

- (A) company name and address;
- (B) process unit information, emissions limitations, and operating parameter limitations;
- (C) date of report and beginning and ending dates of the reporting period;
- (D) date of the most recent tune-up for each unit required according to **Section 2.1 A. 4. h.**, Include the date of the most recent burner inspection; and
- (E) 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.

[40 CFR 63.7550(a) and (c), Table 9t o 40 CFR Part 63 Subpart DDDDD]

The Permittee shall be deemed in noncompliance with 15A NCAC 02D .1111 if these reporting requirements are not met.

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

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

Regulated Pollutant	Limits/Standards	Applicable Regulation
Particulate matter	0.23 pounds per million Btu heat input	15A NCAC 02D .0503
Sulfur dioxide	2.3 pounds per million Btu heat input	15A NCAC 02D .0516
Visible emissions	20 percent opacity	15A NCAC 02D .0521
Nitrogen oxides	Less than 40 tons per 12-month period	15A NCAC 02Q .0317 PSD Avoidance
Sulfur dioxide	Less than 40 tons per 12-month period	15A NCAC 02Q .0317 PSD Avoidance
Sulfur dioxide	The boiler (ID No. TMP01) or a replacement remains at a location for more than 180 consecutive days AND SO ₂ emissions rate no greater than 26 ng/J (0.060 lb/MMBtu),	15A NCAC 2Q. 0317: Avoidance Conditions for 02D .0524: New Source Performance Standards
hazardous air pollutants	The boiler (ID No. TMP01) or a replacement remains at a location within the facility and performs the same or similar function for not more than 12 consecutive months	15A NCAC 2Q. 0317: Avoidance Conditions for 15A NCAC 02D .1111: MACT

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

**4. 15A NCAC 02Q .0317: AVOIDANCE CONDITIONS
for 15A NCAC 02D .0530: PREVENTION OF SIGNIFICANT DETERIORATION**

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

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

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

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

Where,

E_{SO_2} = SO₂ emissions (in lbs) during the previous calendar month

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

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

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

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

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

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

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

Where:

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

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

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

Notifications and Reports [15A NCAC 02Q .0508(f)]

- f. *Initial Notification.* At least 7 days prior to installing any temporary, back-up boiler at the facility, the Permittee shall submit a written notification to the Regional Supervisor, DAQ including the following information:
- i. Indicate the anticipated date of boiler installation;
 - ii. Indicate the anticipated date of initial startup of the boiler;
 - iii. Indicate the maximum heat input capacity of the boiler (in million Btu/hr);
 - iv. Indicate whether the boiler will be affected by 15A NCAC 02D .0524 (i.e., 40 CFR 60, Subpart Dc);
 - v. Identify whether the unit is a firetube- or watertube-type boiler;
 - vi. Identify fuels that the boiler will potentially fire (i.e., natural gas and/or No. 2 fuel oil);
 - vii. Describe the purpose/function of the back-up boiler; and
 - viii. Identify the period of time the Permittee anticipates that the back-up boiler will remain on-site.
- The Permittee shall be deemed in non-compliance with 15A NCAC 02D .0530 if it fails to provide the initial notification as provided above.
- g. *Semiannual Report.* The Permittee shall submit a semi-annual summary report, acceptable to the Regional Air Quality Supervisor, of monitoring and recordkeeping activities postmarked on or before January 30 of each calendar year for the preceding six-month period between July and December and July 30 of each calendar year for the preceding six-month period between January and June. The report shall contain the following:
- i. The monthly SO₂ and NO_x emissions from all temporary, back-up boilers (**ID No. TMP01**) for the previous 17 months. The emissions must be calculated for each of the 12-month periods over the previous 17 months;
 - ii. The monthly quantities of natural gas and No. 2 fuel oil consumed at the temporary boilers (**ID No. TMP01**) for the previous 17 months;
 - iii. Fuel supplier certification(s) for distillate fuel oil, as provided in Section 2.1 B.4.d.iii above;
 - iv. A certified statement signed by the owner or operator that the records of fuel supplier certification(s) submitted represents all of the fuel fired at the affected boiler (**ID No. TMP01**) during the semiannual period; and
 - v. All instances of deviations from the requirements of this permit must be clearly identified
- h. *Final Notification.* Within 7 days of removing any temporary, back-up boiler from the facility, the Permittee shall submit a written notification to the Regional Supervisor, DAQ including the following information:
- i. Indicate the actual date the initial notification, required pursuant to Section 2.1 B.4.f above was submitted to the DAQ;
 - ii. Indicate the actual date of boiler installation;

- iii. Indicate the actual date the boiler was removed from the facility;
- iv. Indicate the total number of days the temporary boiler was on-site;
- v. Indicate the total quantity of each type of fuel fired at the temporary boiler; and
- vi. Indicate the monthly emission rates of SO₂ and NO_x from any temporary boiler for each of the previous 12 months, and total SO₂ and NO_x emissions for the previous 12-month period.

The Permittee shall be deemed in non-compliance with 15A NCAC 02D .0530 if it fails to provide the final notification as provided above.

**5. 15A NCAC 02Q. 0317: AVOIDANCE CONDITIONS for
15A NCAC 02D .0524: NEW SOURCE PERFORMANCE STANDARDS**

- a. In order to avoid the applicability of Environmental Management Commission Standard 15A NCAC 02D .0524 "New Source Performance Standards" (NSPS) as promulgated in 40 CFR Part 60 Subpart Dc, "Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units" including Subpart A "General Provisions," the Permittee shall operate the emission source (**ID No. TMP01**) as a temporary boiler as defined in 40 CFR 60.41c.

Temporary boiler means a steam generating unit that combusts natural gas or distillate oil with a potential SO₂ emissions rate no greater than **26 ng/J (0.060 lb/MMBtu)**, and the unit is designed to, and is capable of, being carried or moved from one location to another by means of, for example, wheels, skids, carrying handles, dollies, trailers, or platforms. A steam generating unit is not a temporary boiler if any one of the following conditions exists:

- i. The equipment is attached to a foundation.
- ii. The steam generating unit or a replacement remains at a location for **more than 180 consecutive days**. Any temporary boiler that replaces a temporary boiler at a location and performs the same or similar function will be included in calculating the consecutive time period.
- iii. The equipment is located at a seasonal facility and operates during the full annual operating period of the seasonal facility, remains at the facility for at least 2 years, and operates at that facility for at least 3 months each year.
- iv. The equipment is moved from one location to another in an attempt to circumvent the residence time requirements of this definition.

[40 CFR 60.40c, 60.41c]

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

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

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

The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0524 if these records are not maintained or the boiler does not meet the definition of a temporary boiler as defined in Section 2.1 B 5. a., above.

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

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

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

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

[40 CFR 63.7491, 63.7575]

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

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

The results shall be maintained in a logbook (written or electronic format) on-site and made available to an authorized representative upon request. The Permittee shall be deemed in noncompliance with 15A NCAC 02D .1111 if these records are not maintained or the boiler does not meet the definition of a temporary boiler as defined in Section 2.1 B 6.a., above.

C. One Carbon Black Tower 1 bucket elevator (ID No. CBT1-ES-210) with associated bin vent filter (ID No. DC-120)

Six Carbon Black Tower 1 storage bins (ID Nos. CBT1-ES-211 through CBT1-ES-216) with associated bin vent filters (ID Nos. DC-121 through 126)

One Carbon Black transfer system (ID No. CBT1-TS1)

One Banbury #1 surge bin (ID No. CBT1-CBS-1) with associated bin vent filters (ID Nos. DC-140 through DC-143)

One Banbury #2 surge bin (ID No. CBT1-CBS-2) with associated bin vent filters (ID Nos. DC-144 through DC-147)

One Banbury #3 surge bin (ID No. CBT1-CBS-3) with associated bin vent filters (ID Nos. DC-148 through DC-151)

One Banbury #6A surge bin (ID No. CBT1-CBS-6A) with associated bin vent filters (ID Nos. DC-152 through DC-155)

One Carbon Black Tower 2 bucket elevator (ID No. CBT2-ES-220) with associated bin vent filter (ID No. DC-130)

Six Carbon Black Tower 2 six storage bins (ID Nos. CBT2-ES-221 through CBT2-ES-226) with associated bin vent filters (ID Nos. DC-131 through DC-136)

One Carbon Black transfer system (ID No. CBT2-TS2)

One Banbury #7 surge bin (ID No. CBT2-CBS-7) with associated bin vent filters (ID Nos. DC-156 through DC-159)

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

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

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

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

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

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

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

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

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

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

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

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

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

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

One windup process (ID No. FABR-G25) with associated bagfilter (ID No. DC-104)
 One windup (ID No. EBP-W27) with associated dust collector/cyclone (ID No. DC-106)
 Two four-roll calendar operations (ID Nos. EBP-CAL1, and CAL2)
 One two-roll calendar operation (ID No. CAL4)
 Two mold cleaner processes (ID Nos. LE60 and LE61) with associated bagfilters (ID Nos. DC-94 and DC-95)

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

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, FG-302, and 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)

BGM grinders Grinders BGM1 and BGM2 (ID No. AE71) with associated self-induced spray scrubber (ID No. DC-166)

MFG Grinders MFG5 through MFG9 (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)

Matuezzi Horizontal Grinders (ID No. MHG1 through MHG4) with associated self-induced spray scrubber (ID No. DC-167)

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)

one cold feed quad extruder (ID No. QE01),

one 60-inch mill (QE02) and

one bead winder with a small cold feed extruder (ID No. QE03)

One Bead Apexer #8 (ID No. TL12)

Four Matuezzi horizontal grinders (ID Nos. MHG1 through MHG4) controlled by rotoclone (self-induced wet scrubber, ID No. DC-167)

Three bead apexers (ID Nos. TL13, TL14, TL15)

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

Regulated Pollutant	Limits/Standards	Applicable Regulation
Volatile organic compounds	(ID Nos. QE01, QE02 and QE03only) See Section 2.4 A.2.	15A NCAC 02D .0530(u)

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

- a. Emissions of particulate matter from these emission sources (ID Nos. CBT1-ES-210, CBT1-ES-211 through CBT1-ES-216, CBT1-TS1, CBT1-CBS-1, CBT1-CBS-2, CBT1-CBS-3, CBT1-CBS-6A, CBT2-ES-220, CBT2-ES-221 through CBT2-ES-226, CBT2-TS2, CBT2-CBS-7, CBT2-CBS-8, BO02, BB01-K9-1, BB02-L9-1, BB03-M9-1, BB04-P9-1, BB05-Q9-1, BB06-R9-1, BB06A-V9-1, BB07-AE8-1, , BB08-CE8-1, PDS-2₇-EBP-CAL1, CAL2, LE60, LE61, Q64, P63, Q66, WX66, FE66, , AE71, UE70, TL07, TL08, TL09, TL10, TR01-F67, TR01-F69, TR01-AE63, QE01, TL12, (MHG1 through MHG4), TL13, TL14, and TL15 shall not exceed an allowable emission rate calculated by the following equations:

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

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 02Q .0508(f)]

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

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

- c. Particulate matter emissions from these emission sources (ID Nos. CBT1-ES-210, CBT1-ES-211 through CBT1-ES-216, CBT1-TS1, CBT1-CBS-1, CBT1-CBS-2, CBT1-CBS-3, CBT1-CBS-6A, CBT2-ES-220, CBT2-ES-221 through CBT2-ES-226, CBT2-TS2, CBT2-CBS-7, CBT2-CBS-8, BO02, BB01-K9-1, BB02-L9-1, BB03-M9-1, BB04-P9-1, BB05-Q9-1, BB06-R9-1, BB06A-V9-1, BB07-AE8-1, , BB08-CE8, PDS-2₇-EBP-CAL1, CAL2, LE60, LE61, Q64, P63, KE63, Q66, WX66, FE66, AE71, UE70, TL07, TL08, TL09, TL10, TR01-F67, TR01-F69, TR01-AE63, QE01, TL12, (MHG1 through MHG4), TL13, TL14, and TL15 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 ensure compliance, the Permittee shall perform inspections and maintenance as recommended by the manufacturer. In addition to the manufacturer’s inspection and maintenance recommendations, or if there are no manufacturer’s inspection and maintenance recommendations, as a minimum, the inspection and maintenance requirement shall include the following:
 - i. monthly external inspection of the ductwork, bin vent filters, cyclones, scrubbers, and bagfilters noting the structural integrity; and
 - ii. annual (for each 12 month period following the initial inspection) internal inspection of the bin vent filters, cyclones, scrubbers, and bagfilters noting the structural integrity and the condition of all filters.

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

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

- ii. the results of each inspection;
- iii. the results of any maintenance performed on any control device; and
- iv. any variance from manufacturer's recommendations or best engineering practices, if any, and corrections made.

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

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

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

2. 15A NCAC 02D .0521: CONTROL OF VISIBLE EMISSIONS

- a. Visible emissions from these sources (**ID Nos. CBT1-ES-210, CBT1-ES-211 through CBT1-ES-216, CBT1-TS1, CBT1-CBS-1, CBT1-CBS-2, CBT1-CBS-3, CBT1-CBS-6A, CBT2-ES-220, CBT2-ES-221 through CBT2-ES-226, CBT2-TS2, CBT2-CBS-7, CBT2-CBS-8, BO02, BB01-K9-1, BB02-L9-1, BB03-M9-1, BB04-P9-1, BB05-Q9-1, BB06-R9-1, BB06A-V9-1, BB07-AE8-1, BB08-CE8-1, PDS-2, EBP-CAL1, CAL2, Q64, P63, Q66, WX66, FE66, AE71, UE70, TL07, TL08, TL09, TL10, TR01-F67, TR01-F69, TR01-AE63, QE01, T111, TL12, (MHG1 through MHG4), TL13, TL14, and TL15**) shall not be more than 20 opacity when averaged over a six-minute period. However, six-minute averaging periods may exceed 20 percent not more than once in any hour and not more than four times in any 24-hour period. In no event shall the six-minute average exceed 87 percent opacity.

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

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

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

- c. To ensure compliance, once a week the Permittee shall observe the emission points of these sources (**ID Nos. CBT1-ES-210, CBT1-ES-211 through CBT1-ES-216, CBT1-TS1, CBT1-CBS-1, CBT1-CBS-2, CBT1-CBS-3, CBT1-CBS-6A, CBT2-ES-220, CBT2-ES-221 through CBT2-ES-226, CBT2-TS2, CBT2-CBS-7, CBT2-CBS-8, BO02, BB01-K9-1, BB02-L9-1, BB03-M9-1, BB04-P9-1, BB05-Q9-1, BB06-R9-1, BB06A-V9-1, BB07-AE8-1, BB08-CE8-1, Q64, P63, Q66, WX66, FE66, AE71, UE70, TR01-F67, TR01-F69, TR01-AE63, (MHG1 through MHG4)**) for any visible emissions above normal. The weekly observation must be made for each week of the calendar year period to ensure compliance with this requirement. If visible emissions from these sources are observed to be above normal, the Permittee shall either:
 - i. take appropriate action to correct the above-normal emissions as soon as practicable and within the monitoring period and record the action taken as provided in the recordkeeping requirements below, or
 - ii. demonstrate that the percent opacity from the emission points of the emission source in accordance with 15A NCAC 02D .2610 (Method 9) for 12 minutes is below the limit given in Section 2.1 C.2.a above.If the above-normal emissions are not corrected per i. above or if the demonstration in ii. above cannot be made, the Permittee shall be deemed to be in noncompliance with 15A NCAC 02D .0521.
- d. The results of the monitoring shall be maintained in a log (written or electronic format) on-site and made available to an authorized representative upon request. The log shall record the following:
 - i. the date and time of each recorded action;
 - ii. the results of each observation and/or test noting those sources with emissions that were observed to

- be in noncompliance along with any corrective actions taken to reduce visible emissions; and
- iii. the results of any corrective actions performed.

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

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

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

D. Two hundred and fifty-three (253) tire curing presses (green tire spray) operations (GTS-CP-001 through GTS-CP-253)

Five fully automated tire/mold release-lube (green tire spray) operations booths (ID Nos. GTS-GT-S2, GTS-GT-S5, GTS-GT-S6, GTS-GT-S7, and GTS-GT-S10)

Two green tire spray operations booths (ID Nos. GTS-GT-S8 and GTS-GT-S9)

Three cementing Rubber Extrusion Lines/Tubers Nos. 3, 4, and 5 (ID Nos. TL03 through TL05)

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

Regulated Pollutant	Limits/Standards	Applicable Regulation
Volatile organic compounds	<p>(ID Nos. GTS-CP-001 through GTS-CP-253, and GTS-GT-S2, GTS-GT-S5, GTS-GT-S6, GTS-GT-S7, GTS-GT-S10, GTS-GT-S8 and GTS-GT-S9 only) Less than 1.2 grams VOC per tire sprayed for each month</p> <p>(ID Nos. TL03 through TL06 only) Less than 10 grams VOC per tire cemented for each month</p>	15A NCAC 02D .0524 (40 CFR 60, Subpart <u>BBB</u>)
Volatile organic compounds	<p>Only for two hundred and fifty-three (253) tire curing presses (green tire spray) operations (GTS-CP-001 through GTS-CP-253)</p> <p>BACT - Work Practices for Sources of Volatile Organic Compounds</p>	15A NCAC 02D .0530

1. 15A NCAC 02D .0524: NEW SOURCE PERFORMANCE STANDARDS

- a. The Permittee shall comply with all applicable provisions, including the notification, testing, recordkeeping, and monitoring requirements contained in Environmental Management Commission Standard 15A NCAC 02D .0524, "New Source Performance Standards" (NSPS) as promulgated in 40 CFR Part 60 Subpart BBB, including Subpart A "General Provisions."

Emission Limitations [15A NCAC 02D .0524]

- b. For each tread end cementing operation (**ID Nos. TL03 through TL06**) the Permittee shall discharge no more than 10 grams of VOC per tire cemented for each month.
- c. For each manual green tire spraying operation and automatic operations booths where only water-based sprays are used (**ID Nos. ID Nos. GTS-CP-001 through GTS-CP-253, GTS-GT-S2, GTS-GT-S5, GTS-GT-S6, GTS-GT-S7, GTS-GT-S10, GTS-GT-S8 and GTS-GT-S9**) 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 02Q .0508(f)]

- d. The Permittee shall determine compliance with the tread end cementing operation (**ID Nos. TL03**

through TL06) standard according to 40 CFR 60.543(d), as follows:

- i. Determine the density and weight fraction of VOC in the cement using Method 24.
- ii. Calculate the total mass of VOC used at the affected facilities for each calendar month according to the following equation:

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

Where,

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

i = each cement used;

L_c = volume of cement used;

D_c = density of cement used; and

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

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

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

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

- e. The Permittee is complying with the green tire spraying operations (**ID Nos. GTS-CP-001 through GTS-CP-253, GTS-GT-S2, GTS-GT-S5, GTS-GT-S6, GTS-GT-S7, GTS-GT-S10, GTS-GT-S8 and GTS-GT-S9 only**) standard by either using water-based sprays containing less than 1.0 percent VOC by weight or by complying with the monthly performance test requirements listed in 60.543(d).
 - i. If using water-based spray less than 1.0 percent VOC by weight, Pursuant to 40 CFR Part 60.543(b)(4), the Permittee shall submit to the Regional Supervisor, DAQ, within 60 days initially and annually thereafter, the formulation data or results of Method 24 analysis to verify the VOC content of each green tire spray material, provided that the spraying formulation has not changed during the previous 12 months. If the spray material formulation changes, the formulation data or Method 24 analysis of the new spray shall be conducted to determine the VOC content of the spray and reported within 30 days as required under 40 CFR Part 60.546(j). The Permittee will be deemed in noncompliance with 15A NCAC 02D .0524 if the required monitoring is not completed, or if the VOC concentration exceeds the limit in Section 2.1 D.1.c of this permit.
[40 CFR 60.543(b)(4)]
 - ii. If using water-based spray containing greater than 1.0 percent VOC by weight or more (inside and/or outside green tire spray operations) that do not use a VOC emission reduction system, the owner or operator shall use the following procedure to determine compliance with the VOC emission per tire limit specified under 60.542(a)(5)(i) and as listed in condition 2.1 D.1.c of this permit.
 - (1) Determine the density and weight fraction VOC as specified under paragraph (c)(1) of 40 CFR Part 60.543.
 - (2) Calculate the total mass of VOC used at the affected facility for the month (M_o) as specified under paragraph (c)(2) 40 CFR Part 60.543.
 - (3) Determine the total number of tires cemented or sprayed at the affected facility for the month (T_o) by the following procedure:
 - (i) For a trend end cementing operation, T_o equals the number of tread or combined tread/sidewall components that receive an application of tread end cement for the month.
 - (ii) For a green tire spraying operation that uses water-based inside green tire sprays, T_o equals

the number of green tires that receive an application of water-based inside green tire spray for the month.

[40 CFR 60.543(d)(3)]

- (4) Calculate the mass of VOC used per tire cemented or sprayed at the affected facility for the month (G): [40 CFR 60.543(d)(4)]

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

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

N = G

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

- f. For Subpart BBB-affected equipment that has been authorized for construction, including tubers and associated tread end cementing operation (**ID No. TL03, TL04, and TL05**) and automatic green tire sprays (**ID Nos. GTS-GT-S2, GTS-GT-S5, GTS-GT-S6, GTS-GT-S7, GTS-GT-S10, GTS-GT-S8 and GTS-GT-S9**) the Permittee is required to NOTIFY the Regional Supervisor, DAQ, in WRITING, of the following:
- i. the date construction (40 CFR 60.7) or reconstruction (40 CFR 60.15) of an affected facility is commenced, postmarked no later than 30 days after such date; and
 - ii. the actual date of initial start-up of an affected facility, postmarked within 15 days after such date.
- g. If complying with condition 2.1 D.1.e.i, pursuant to 60.546(j), the owner or operator of each tread end cementing operation and each green tire spraying (inside and/or outside) operation using water-based sprays containing less than 1.0 percent, by weight, of VOC as described in §60.543(b)(1) shall furnish the Administrator, within 60 days initially and annually thereafter, formulation data or Method 24 results to verify the VOC content of the water-based sprays in use. If the spray formulation changes before the end of the 12-month period, formulation data or Method 24 results to verify the VOC content of the spray shall be reported within 30 days of the change.
- h. If complying with condition 2.1 D.1.e.ii, pursuant to 60.546(c)(2), each owner or operator subject to the provisions of this subpart shall report the results of all initial performance tests, as required under 60.8(a), and the results of the performance tests required under 60.543 (b)(2) and (b)(3). For each affected facility that seeks to comply with a VOC emission limit per tire or per bead specified under 60.542(a) without the use of a VOC emission reduction system: the mass of VOC used (M_o), the number of tires cemented or sprayed (T_o) and the mass of VOC emitted per tire cemented or sprayed (N).
- i. In addition to any other reporting required by 40 CFR 60.546 or notification requirements to the EPA, the Permittee shall submit a semiannual summary report, acceptable to the Regional Air Quality Supervisor, of monitoring and recordkeeping activities postmarked on or before January 30 of each calendar year for the preceding six-month period between July and December, and on or before July 30 of each calendar year for months between January and June. The report shall contain the 12-month rolling VOC emissions for each of the six consecutive 12-month periods during the calendar half and the monthly VOC emission totals for the previous 17 months.

2. BACT¹ – 15A NCAC 02D .0958: Work Practices for Sources of Volatile Organic Compounds

For (ID Nos. GTS-CP-001 through GTS-CP-253)

- a. 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, 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,

¹ See review for Application # 2600050.19C, where 02D .0958 is the BACT for two hundred and fifty-three curing presses (GTS-CP-001 through GTS-CP-253)

- 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 02Q .0508(f)]

- c. To ensure compliance with Section(s) 2.1 D.2.a and b above, the Permittee shall, at a minimum, perform a visual inspection once per month of all operations and processes utilizing VOCs. 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 02D .0958.
- d. The results of the inspections shall be maintained in a logbook (written or electronic format) on-site and made available to an authorized representative upon request. The logbook shall record the following:
 - i. the date and time of each inspection; and
 - ii. the results of each inspection noting whether or not noncompliant conditions were observed.If the required records are not maintained the Permittee shall be deemed to be in noncompliance with 15A NCAC 02D .0958.

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

- e. The Permittee shall submit a summary report of the monitoring and recordkeeping activities given in Section(s) 2.1 D.2.c and d, above 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.

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

A. Facility-wide affected sources

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

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

State-Enforceable Only

1. **15A NCAC 02D .1806: CONTROL AND PROHIBITION OF ODOROUS EMISSIONS**
 - a. The Permittee shall not operate the facility without implementing management practices or installing and operating odor control equipment sufficient to prevent odorous emissions from the facility from causing or contributing to objectionable odors beyond the facility's boundary.
2. **15A NCAC 02D .1111: MAXIMUM ACHIEVABLE CONTROL TECHNOLOGY (40 CFR 63, Subpart XXXX - Rubber Tire Manufacturing)**
 - a. Emissions of each HAP listed below shall not exceed 2 pounds per ton (lbs/ton) of total cements and solvents used at the tire production affected source, as it is defined in 40 CFR 63.5982(b)(1):

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

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

[Table 1 of MACT Subpart XXXX, Option 1]

- b. Emissions of each HAP not listed in Section 2.2 A.2.a, of this permit must not exceed 20 pounds per ton (lbs/ton) of total cements and solvents used at the tire production affected source.
[Table 1 of MACT Subpart XX, Option 1]
- c. Pursuant to 40 CFR 63.5985 (“Purchase Alternative”), the Permittee shall only use cements and solvents that, as purchased, contain no more HAP than allowed in Section 2.2 A.2.a or b, of this permit.
[40 CFR 63.5985(a)]

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

- d. The Permittee shall maintain the following records:
- An updated list of each cement and solvent as purchased and the manufacturer or supplier of each;
 - 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.2.a or b, above, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .1111.

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

- e. The Permittee shall submit an annual summary report, acceptable to the Regional Air Quality Supervisor, of monitoring and recordkeeping activities postmarked on or before January 30 for the preceding calendar year. The report shall include the following information:
- Identification that the Permittee has chosen the “HAP Constituent” emission limit option pursuant to 40 CFR 63.5984;
 - Identification that the Permittee has chosen the “Purchase Alternative” compliance option pursuant to 40 CFR 63.5985(a);
 - Identification of each new cement and solvent used at the facility that was not previously identified on the list of affected materials;
 - 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.2.a and b, above;
 - Identification of any deviation from the emissions limitations in Section 2.2 A.2.a and b, above;
 - If there were no deviations from the emissions limitations in Section 2.2 A.2.a and b, above, include a statement to that effect; and
 - Statement by a Responsible Official, with that official’s name, title, and signature certifying the accuracy of the content of the report.

B. Rubber Mixing, and Curing Operations with Silica Formulations

- Banbury Mixer #1 (ID No. BB01-K9-1) with associated bagfilter (ID No. DC-13), And/Or in series with RTO (RTO-1) And/Or with RTO (RTO-2)
- Banbury Mixer #2 (ID No. BB02-L9-1) with associated bagfilter (ID No. DC-14), And/Or in series with RTO (RTO-1) And/Or with RTO (RTO-2)
- Banbury Mixer #3 (ID No. BB03-M9-1) with associated bagfilter (ID No. DC-15), And/Or in series with RTO (RTO-1) And/Or with RTO (RTO-2)
- Banbury mixer #6A (ID No. BB06A-V9-1) with associated bagfilter (ID No. DC-19) and regenerative thermal oxidizer (ID No. RTO-1), And/Or with RTO (RTO-2)
- Banbury mixer #7 (ID No. BB07-AE8-1) with associated bagfilter (ID No. DC-20) and regenerative thermal oxidizer (ID No. RTO-1) And/Or with RTO (RTO-2), and
- Two hundred and fifty three tire curing presses (ID Nos. GTS-CP-01 through GTS-CP-253),
- One Banbury mixer #8 (ID No. BB08-CE8-1) with associated bagfilter (ID No. DC-21) and regenerative thermal oxidizer (ID No. RTO-1) And/Or with RTO (RTO-2)

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

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

- b. Except as provided in ii. below, the Permittee shall control VOC emissions from the affected Banbury mixers (**ID Nos. BB06A-V9-1, and/or BB07-AE8-1, and BB08-CE8-1**) using the regenerative thermal oxidizer (**ID No. RTO-1 and/or RTO-2**).
- i. Use of the regenerative thermal oxidizer is required whenever one or more of the affected mixers is being used to mix rubber formulations with an organic coupling agent resulting in an uncontrolled emission rate greater than the limit in Section 2.2 B.1.a above.
 - ii. Use of the regenerative thermal oxidizer is not required when none of the affected mixers is being used to mix rubber formulations with an organic coupling agent resulting in an uncontrolled emission rate greater than the limit in Section 2.2 B.1.a above.
 - iii. To remain within the design limits of the RTO, the Permittee may use the coupling agent resulting in an uncontrolled emission rate greater than the limit in 2.2 B.1.a, above in only two Banbury mixers at a time. The Permittee shall maintain the 3-hour rolling average combustion temperature of the regenerative thermal oxidizer (ID No. RTO-1) at or above 1,554 degrees Fahrenheit when use of the control device is required. The Permittee shall maintain the 3-hour rolling average combustion temperature of the regenerative thermal oxidizer (ID No. RTO-2) at or above 1,515 degrees Fahrenheit when use of the control device is required. The 3-hour rolling averages for each RTO shall be calculated using a minimum of one (1) data point every 15-minutes period when the use of the control device is required. Each 15-minutes data point shall be calculated by averaging all the valid data values recorded by the continuous monitoring system (CMS) for that 15-minutes period. The Permittee shall be deemed in non-compliance with 15A NCAC 02D .0530 if the control devices are not operated as required above.

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

- c. If emissions testing is required, the testing shall be performed in accordance with General Condition JJ. If the results of this test are above the limit given in Section 2.2 B.1.a, above, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .0530.
- d. Under the provisions of NCGS 143-215.108, the Permittee shall demonstrate compliance with the emission limit in Section 2.2 B.1. a., above by testing regenerative thermal oxidizers (ID Nos. RTO-1 and RTO-2) for VOC destruction removal efficiency in accordance with a testing protocol approved by the DAQ. Details of the emissions testing and reporting requirements can be found in General Condition JJ. Testing shall be completed and the results submitted within 180 days of beginning operation / permit issuance unless an alternate date is approved by the DAQ. If the results of this test are above the limit given in Section 2.2 B.1. a., above, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .0530. All initial emissions testing requirements for RTO-1 and RTO-2 specified in this condition have been fulfilled.

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

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

The required records shall be maintained in a logbook (written or electronic format) on-site and made available to an authorized representative upon request. The record shall be updated to include any new, affected rubber formulations processed at the facility. The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0530 if the records are not updated or maintained, or if the Permittee processes a rubber formulation at the facility with a controlled VOC emission rate that exceeds the limit in Section 2.2 B.1.a above.

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

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

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

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

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

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

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

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

- c. If emissions testing is required, the testing shall be performed in accordance with General Condition JJ. If the results of this test are above the limit given in Section 2.2 B.2.a above, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .0530.
- d. Under the provisions of NCGS 143-215.108, the Permittee shall demonstrate compliance with the emission limit in Section 2.2 B.2.a above, by testing regenerative thermal oxidizers (ID Nos. RTO-1 and RTO-2) for VOC destruction removal efficiency in accordance with a testing protocol approved by the DAQ. Details of the emissions testing and reporting requirements can be found in General Condition JJ. Testing shall be completed and the results submitted within 180 days of beginning operation / permit issuance unless an alternate date is approved by the DAQ. If the results of this test are above the limit given in Section 2.2 B.2.a above, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .0530. All initial emissions testing requirements for RTO-1 and RTO-2 specified in this condition have been fulfilled.

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

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

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

- f. The Permittee shall install, operate, and maintain a continuous monitoring system (CMS) to measure and record the combustion chamber temperature of the regenerative thermal oxidizers (ID Nos. **RTO-1 and/or RTO-2**). The CMS shall be operated whenever use of the regenerative thermal oxidizer is required pursuant to Section 2.2 B.2.b.i above. The CMS shall meet the following requirements:
 - i. The monitor shall be located in a position that provides a representative temperature;
 - ii. The temperature sensors must have a minimum measurement sensitivity of 1.0 percent of the temperature value (relative to degrees Celsius) and
 - iii. The minimum data requirement for calculating the 3-hour rolling average is one (1) data point every 15-minutes period when the thermal oxidizer is required pursuant to Section 2.2 B.2.b.i above. Each 15-minutes data point shall be calculated by averaging all the valid data values recorded by the CMS for that 15-minutes period.

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

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

- g. The Permittee shall submit a semiannual summary report, acceptable to the Regional Air Quality Supervisor, of monitoring and recordkeeping activities postmarked on or before January 30 of each calendar year for the preceding six-month period between July and December and July 30 of each calendar year for the preceding six-month period between January and June. The report shall contain the following information:

- i. Identify any new rubber formulations processed at this facility and added to the record required in Section 2.2 B.2.e above, including the associated controlled and uncontrolled VOC emission rate;
- ii. Identify each period during which a rubber formulation identified in Section 2.2 B.2.f above was either:
 - A. Processed in a Banbury mixer without operating the regenerative thermal oxidizers (**ID Nos. RTO-1 and/or RTO-2**) to control associated VOC emissions; or
 - B. The 3-hour average temperature of the regenerative thermal oxidizers (**ID Nos. RTO-1 and/or RTO-2**) was less than the limit Section 2.2 B.2.b above.
- iii. All instances of deviations from the requirements of this permit must be clearly identified.

SECTION 2.3 - Use of projected actual emissions to avoid applicability of PSD

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

- 1. 15A NCAC 02D. 0530(u): USE OF PROJECTED ACTUAL EMISSIONS TO AVOID APPLICABILITY OF PREVENTION OF SIGNIFICANT DETERIORATION REQUIREMENTS**
Pursuant to Application 2600050.08B for the replacement of 61 curing presses (collectively listed as ID No. GTS-CP-001 through GTS-CP-253), addition of Force Grinders (ID No. RG 800-805), Gum Roll Calender (ID No. CAL4), and a Collman Grinder (ID No. MG1) the Permittee shall perform the following:

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

- a. The Permittee shall maintain records of annual emissions in tons per year, on a calendar year basis, related to the modification for 10 years following resumption of regular operations after the change is made.
- b. The Permittee shall submit a report to the director within 60 days after the end of each calendar year during which these records must be generated. The report shall contain the items listed in 40 CFR 51.166(r)(6)(v)(a) through (c).
- c. The Permittee shall make the information documented and maintained under this condition available to the Director or the general public pursuant to the requirements in 40 CFR 70.4(b)(3)(viii).

- 2. 15A NCAC 02D. 0530(u): USE OF PROJECTED ACTUAL EMISSIONS TO AVOID APPLICABILITY OF PREVENTION OF SIGNIFICANT DETERIORATION REQUIREMENTS**
Pursuant to Application 2600050.16A for the new one cold feed quad extruder (ID No. QE01), one bead winder with a small cold feed extruder (**ID No. QE03**) and one 60-inch mill (QE02), the Permittee shall perform the following:

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

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

SECTION 3 - GENERAL CONDITIONS (version 5.5, 08/25/2020)

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

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

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

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

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

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

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

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

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

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

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

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

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

F. **Circumvention** - STATE ENFORCEABLE ONLY

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

G. **Permit Modifications**

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

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

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

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

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

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

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

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

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

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

H. **Changes Not Requiring Permit Modifications**

1. Reporting Requirements

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

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

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

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

- a. "Section 502(b)(10) changes" means changes that contravene an express permit term or condition. Such changes do not include changes that would violate applicable requirements or contravene federally enforceable permit terms and conditions that are monitoring (including test methods), recordkeeping, reporting, or compliance certification requirements.
- b. The Permittee may make Section 502(b)(10) changes without having the permit revised if:
 - i. the changes are not a modification under Title I of the Federal Clean Air Act;
 - ii. the changes do not cause the allowable emissions under the permit to be exceeded;

- iii. the Permittee notifies the Director and EPA with written notification at least seven days before the change is made; and
 - iv. the Permittee shall attach the notice to the relevant permit.
 - c. The written notification shall include:
 - i. a description of the change;
 - ii. the date on which the change will occur;
 - iii. any change in emissions; and
 - iv. any permit term or condition that is no longer applicable as a result of the change.
 - d. Section 502(b)(10) changes shall be made in the permit the next time that the permit is revised or renewed, whichever comes first.
3. Off Permit Changes [15A NCAC 02Q .0523(b)]
The Permittee may make changes in the operation or emissions without revising the permit if:
- a. the change affects only insignificant activities and the activities remain insignificant after the change; or
 - b. the change is not covered under any applicable requirement.
4. Emissions Trading [15A NCAC 02Q .0523(c)]
To the extent that emissions trading is allowed under 15A NCAC 02D, including subsequently adopted maximum achievable control technology standards, emissions trading shall be allowed without permit revision pursuant to 15A NCAC 02Q .0523(c).

I.A Reporting Requirements for Excess Emissions and Permit Deviations [15A NCAC 02D .0535(f) and 02Q .0508(f)(2)]

“Excess Emissions” - means an emission rate that exceeds any applicable emission limitation or standard allowed by any rule in Sections .0500, .0900, .1200, or .1400 of Subchapter 02D; or by a permit condition; or that exceeds an emission limit established in a permit issued under 15A NCAC 02Q .0700. (*Note: Definitions of excess emissions under 02D .1110 and 02D .1111 shall apply where defined by rule.*)

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

Excess Emissions

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

Permit Deviations

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

1. Compliance with the terms and conditions of this permit shall be deemed compliance with applicable requirements, where such applicable requirements are included and specifically identified in the permit as of the date of permit issuance.
2. A permit shield shall not alter or affect:

- a. the power of the Commission, Secretary of the Department, or Governor under NCGS 143-215.3(a)(12), or EPA under Section 303 of the Federal Clean Air Act;
 - b. the liability of an owner or operator of a facility for any violation of applicable requirements prior to the effective date of the permit or at the time of permit issuance;
 - c. the applicable requirements under Title IV; or
 - d. the ability of the Director or the EPA under Section 114 of the Federal Clean Air Act to obtain information to determine compliance of the facility with its permit.
3. A permit shield does not apply to any change made at a facility that does not require a permit or permit revision made under 15A NCAC 02Q .0523.
 4. A permit shield does not extend to minor permit modifications made under 15A NCAC 02Q .0515.

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

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

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

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

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

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

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

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

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

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

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

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

1. The Permittee shall pay all fees in accordance with 15A NCAC 02Q .0200.
2. Payment of fees may be by check or money order made payable to the N.C. Department of Environmental Quality. Annual permit fee payments shall refer to the permit number.

3. If, within 30 days after being billed, the Permittee fails to pay an annual fee, the Director may initiate action to terminate the permit under 15A NCAC 02Q .0519.

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

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

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

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

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

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

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

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

BB. **Financial Responsibility and Compliance History** [15A NCAC 02Q .0507(d)(3)]

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

CC. **Refrigerant Requirements (Stratospheric Ozone and Climate Protection)** [15A NCAC 02Q .0501(d)]

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

DD. **Prevention of Accidental Releases - Section 112(r)** [15A NCAC 02Q .0508(h)]

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

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

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

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

This permit does not limit the number of Title IV allowances held by the Permittee, but the Permittee may not use allowances as a defense to noncompliance with any other applicable requirement. The Permittee's

emissions may not exceed any allowances that the facility lawfully holds under Title IV of the Federal Clean Air Act.

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

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

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

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

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

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

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

Emission compliance testing shall be by the procedures of Section .2600, except as may be otherwise required in Rules .0524, .1110, or .1111 of Subchapter 02D. If emissions testing is required by this permit or the DAQ or if the Permittee submits emissions testing to the DAQ to demonstrate compliance for emission sources subject to Rules .0524, .1110, or .1111, the Permittee shall provide and submit all notifications, conduct all testing, and submit all test reports in accordance with the requirements of 15A NCAC 02D .0524, .1110, or .1111, as applicable. Otherwise, if emissions testing is required by this permit or the DAQ or if the Permittee submits emissions testing to the DAQ to demonstrate compliance, the Permittee shall perform such testing in accordance with 15A NCAC 02D .2600 and follow the procedures outlined below:

1. The owner or operator of the source shall arrange for air emission testing protocols to be provided to the Director prior to air pollution testing. Testing protocols are not required to be pre-approved by the Director prior to air pollution testing. The Director shall review air emission testing protocols for pre-approval prior to testing if requested by the owner or operator at least **45 days** before conducting the test.
2. Any person proposing to conduct an emissions test to demonstrate compliance with an applicable standard shall notify the Director at least **15 days** before beginning the test so that the Director may at his option observe the test.
3. The owner or operator of the source shall arrange for controlling and measuring the production rates during the period of air testing. The owner or operator of the source shall ensure that the equipment or process being tested is operated at the production rate that best fulfills the purpose of the test. The individual conducting the emission test shall describe the procedures used to obtain accurate process data and include in the test report the average production rates determined during each testing period.
4. Two copies of the final air emission test report shall be submitted to the Director not later than **30 days** after sample collection unless otherwise specified in the specific conditions. The owner or operator may request an extension to submit the final test report. The Director shall approve an extension request if he finds that the extension request is a result of actions beyond the control of the owner or operator.
 - a. The Director shall make the final determination regarding any testing procedure deviation and the validity of the compliance test. The Director may:
 - i. Allow deviations from a method specified under a rule in this Section if the owner or operator of the source being tested demonstrates to the satisfaction of the Director that the specified method is inappropriate for the source being tested.
 - ii. Prescribe alternate test procedures on an individual basis when he finds that the alternative method is necessary to secure more reliable test data.

- iii. Prescribe or approve methods on an individual basis for sources or pollutants for which no test method is specified in this Section if the methods can be demonstrated to determine compliance of permitted emission sources or pollutants.
- b. The Director may authorize the Division of Air Quality to conduct independent tests of any source subject to a rule in this Subchapter to determine the compliance status of that source or to verify any test data submitted relating to that source. Any test conducted by the Division of Air Quality using the appropriate testing procedures described in Section 02D .2600 has precedence over all other tests.

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

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

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

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

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

As required by 15A NCAC 02D .0540 "Particulates from Fugitive Dust Emission Sources," the Permittee shall not cause or allow fugitive dust emissions to cause or contribute to substantive complaints or excess visible emissions beyond the property boundary. If substantive complaints or excessive fugitive dust emissions from the facility are observed beyond the property boundaries for six minutes in any one hour (using Reference Method 22 in 40 CFR, Appendix A), the owner or operator may be required to submit a fugitive dust plan as described in 02D .0540(f).

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

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

1. For modifications made pursuant to 15A NCAC 02Q .0501(b)(2), the Permittee shall file a Title V Air Quality Permit Application for the air emission source(s) and associated air pollution control device(s) on or before 12 months after commencing operation.
2. For modifications made pursuant to 15A NCAC 02Q .0501(c)(2), the Permittee shall not begin operation of the air emission source(s) and associated air pollution control device(s) until a Title V Air Quality Permit Application is filed and a construction and operation permit following the procedures of Section .0500 (except for Rule .0504 of this Section) is obtained.
3. For modifications made pursuant to 502(b)(10), in accordance with 15A NCAC 02Q .0523(a)(1)(C), the Permittee shall notify the Director and EPA (EPA - Air Planning Branch, 61 Forsyth Street SW, Atlanta, GA 30303) in writing at least seven days before the change is made. The written notification shall include:
 - a. a description of the change at the facility;
 - b. the date on which the change will occur;
 - c. any change in emissions; and
 - d. any permit term or condition that is no longer applicable as a result of the change.

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

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

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

ATTACHMENT

List of Acronyms

AOS	Alternative Operating Scenario
BACT	Best Available Control Technology
BAE	Baseline Actual Emissions
Btu	British thermal unit
CAA	Clean Air Act
CAM	Compliance Assurance Monitoring
CEM	Continuous Emission Monitor
CFR	Code of Federal Regulations
CSAPR	Cross-State Air Pollution Rule
DAQ	Division of Air Quality
DEQ	Department of Environmental Quality
EMC	Environmental Management Commission
EPA	Environmental Protection Agency
FR	Federal Register
GACT	Generally Available Control Technology
GHGs	Greenhouse Gases
HAP	Hazardous Air Pollutant
LAER	Lowest Achievable Emission Rate
MACT	Maximum Achievable Control Technology
NAA	Non-Attainment Area
NAAQS	National Ambient Air Quality Standards
NCAC	North Carolina Administrative Code
NCGS	North Carolina General Statutes
NESHAP	National Emission Standards for Hazardous Air Pollutants
NO_x	Nitrogen Oxides
NSPS	New Source Performance Standard
NSR	New Source Review
OAH	Office of Administrative Hearings
PAE	Projected Actual Emissions
PAL	Plantwide Applicability Limitation
PM	Particulate Matter
PM_{2.5}	Particulate Matter with Nominal Aerodynamic Diameter of 2.5 Micrometers or Less
PM₁₀	Particulate Matter with Nominal Aerodynamic Diameter of 10 Micrometers or Less
POS	Primary Operating Scenario
PSD	Prevention of Significant Deterioration
PTE	Potential to Emit
RACT	Reasonably Available Control Technology
SIC	Standard Industrial Classification
SIP	State Implementation Plan
SO₂	Sulfur Dioxide
TAP	Toxic Air Pollutant
tpy	Tons Per Year
VOC	Volatile Organic Compound