Commonwealth of Virginia

VIRGINIA DEPARTMENT OF ENVIRONMENTAL QUALITY

BLUE RIDGE REGIONAL OFFICE
901 Russell Drive, Salem, Virginia 24153
(540) 562-6700 FAX (804) 698-4178
www.deq.virginia.gov

Travis A. Voyles
Acting Secretary of Natural and Historic Resources

Michael S. Rolband, PE, PWD, PWS Emeritus
Director
(804) 698-4020

Robert J. Weld
Regional Director

Federal Operating Permit
Article 1

This permit is based upon the requirements of Title V of the Federal Clean Air Act and Chapter 80, Article 1, of the Commonwealth of Virginia Regulations for the Control and Abatement of Air Pollution. Until such time as this permit is reopened and revised, modified, revoked, terminated or expires, the permittee is authorized to operate in accordance with the terms and conditions contained herein. This permit is issued under the authority of Title 10.1, Chapter 13, §10.1-1322 of the Air Pollution Control Law of Virginia. This permit is issued consistent with the Administrative Process Act and 9VAC5-80-50 through 9VAC5-80-300 of the State Air Pollution Control Board Regulations for the Control and Abatement of Air Pollution of the Commonwealth of Virginia.

Authorization to operate a Stationary Source of Air Pollution as described in this permit is hereby granted to:

Permittee Name:	Yokohama Tire Manufacturing Virginia, LLC
Facility Name:	Yokohama Tire Manufacturing Virginia, LLC
Facility Location:	1500 Indiana Street, Salem, Virginia 24153
Registration Number:	20123
Permit Number:	BRRO-20123

This permit includes the following programs:
Federally Enforceable Requirements - Clean Air Act

April 12, 2022	October 25, 2022
Effective Date	Modification Date
April 11, 2027	October 25, 2022
Expiration Date	Modification Signature Date

Robert J. Weld, Regional Director

TABLE OF CONTENTS

Facility Information

Permittee
Yokohama Tire Manufacturing Virginia, LLC
1500 Indiana Street
Salem, Virginia 24153

Responsible Official
Tetsuro "Tex" Murakami
President, Yokohama Tire Manufacturing Virginia, LLC

Facility
Yokohama Tire Manufacturing Virginia, LLC
1500 Indiana Street
Salem, Virginia 24153

Contact Person
Neil Dalton
Director of Environment, Health and Safety, Yokohama Corporation of North America
(540) 375-8209

County-Plant Identification Number: 775 - 00026

Facility Description: NAICS 326211: Tire Manufacturing (except Retreading)

Yokohama Tire Manufacturing Virginia, LLC manufactures pneumatic tires for passenger cars and light trucks at its plant in Salem, Virginia, an Emissions Control Area for Volatile Organic Compounds (VOC) and Nitrogen Oxides (NOx) under 9VAC5-20-206. Employing over 600 on its nearly 57-acre site, it is a Title V major source of VOC. In addition to its Title V permit, Yokohama operates under a combined New Source Review (NSR) and State Operating Permit (SOP) dated November 7, 2014 and a minor NSR Permit dated October 25, 2022. Yokohama is subject to the following regulations under 40 CFR 60:

- 40 CFR 60 Subpart Dc: *Standards of Performance for Small Industrial-Commercial-Institutional Steam-Generating Units*
- 40 CFR 60 Subpart BBB: *Standards of Performance for the Rubber Tire Manufacturing Industry*

Emission Units

Process Equipment to be operated consists of:

Fuel-Burning Equipment

Emission Unit ID	Stack ID	Emission Unit Description	Size/Rated Capacity*	Pollution Control Device (PCD) Description *	PCD ID	Pollutant Controlled	Applicable Permit Date
FB-B3	3BST	Cleaver Brooks DL-60 E boiler (1977) Natural Gas (P) #2 Fuel Oil (B)	55.1 MMBtu/hr	--	--	--	11/7/14
FB-B4	4BST	Arco Industries Model 90 101 boiler Natural Gas (P) #2 Fuel Oil (B)	79.4 MMBtu/hr	--	--	--	11/7/14

Tire Manufacturing Equipment

Emission Unit ID	Stack ID	Emission Unit Description	Size/Rated Capacity*	Pollution Control Device (PCD) Description *	PCD ID	Pollutant Controlled	Applicable Permit Date
SOLV	--	Rubber Solvent Use (mixing, lab, cleanup and miscellaneous)	13,712 gallons	--	--	--	11/7/14
SILANE	--	Silane Coupler	--	--	--	--	10/25/22
PR-1	--	Printers (6) (ink jet and offset)	--	--	--	--	11/7/14
1-CBS	E104 – E109	Carbon Black Storage Silos	--	Silo baghouses	BH7A - BH7F	PM PM-10	11/7/14

Emission Unit ID	Stack ID	Emission Unit Description	Size/Rated Capacity*	Pollution Control Device (PCD) Description *	PCD ID	Pollutant Controlled	Applicable Permit Date
1-IM-C	E131 – E133, E1011, E1E1	Carbon Black Day Silos	--	Seneca Environmental Products, Inc. Model 36-CART-200 (cartridge filters (3)) *(Mixer 1 feed; Carbon Black Loading Bins 2 & 3, mixer feeds)*; American Air Filter Model 6-336-1200 (baghouse) *(Mixer 4, mixing hood)*; Snyder General (cartridge filter) *(Carbon Black Day Bins, mixer feed)*	BH-1K BH-1M BH-1N BH-1O BH-1S	PM PM-10	11/7/14
1-IM	E101 – E103, E1011, E1E2	Internal Mixers (KSBI, Farrel) (5 black, 1 white), including compound mixing and weigh stations	254,239,567 lbs rubber	Seneca Environmental Products, Inc. Model 960-THS-10 (baghouses (3)) *(mixer, drop mill)*; American Air Filter Model 6-336-1200 (baghouse) *(white mixer, drop mill)*; Snyder General (cartridge filter) *(mixer, drop mill)*	BH-1A BH-1B BH-1C BH-1J BH-1R	PM PM-10	11/7/14
2-CALa	--	Steward Bolling L Calender	17,432,125 lbs rubber	--	--	--	11/7/14
2-CALb	--	KSBI Z Calender	50,862,084 lbs rubber	--	--	--	11/7/14
2-EX	--	Extruders (sidewall, tread)	186,970,847 lbs rubber	--	--	--	11/7/14

Emission Unit ID	Stack ID	Emission Unit Description	Size/Rated Capacity*	Pollution Control Device (PCD) Description *	PCD ID	Pollutant Controlled	Applicable Permit Date
2-WMILL	--	Warm-up Roller Mill	68,294,209 lbs rubber	--	--	--	11/7/14
2-TEND	401a	Tread End Cementers (spray application)	9,900 gallons	--	--	--	11/7/14
5-GTS	E401b	Green Tire Sprayers	72,000 gallons	--	--	--	11/7/14
5-PTP		Precure Tire Paint (manual application)	2,275 gallons	--	--	--	11/7/14
5-CP	E5125 – E5144	Tire Curing Presses (NRM Type AFV, Mitsubishi PCX, Mitsubishi LTX)	181,035,061 lbs rubber	--	--	--	11/7/14
6-TUO	E612, E615, E617, E618	Tire Uniformity Optimizers (Yokohama Uniformity Machines, Akron Standard, Akron Special Machines)	900,000 tires	Aeropulse baghouses (4): Models PR64-10-H-N, PR132-10-H-N, PR169-10-H-N, PR196-10-H-N (units also treat 6-SWB)	BH6A-BH6D	PM PM-10	11/7/14
6-SWB	E612, E615, E617, E618	Sidewall Buffers (whitewall only) (tire black rubber removal)	2,700,000 tires	Aeropulse baghouses (4): Models PR64-10-H-N, PR132-10-H-N, PR169-10-H-N, PR196-10-H-N (units also treat 6-TUO)	BH6A-BH6D	PM PM-10	11/7/14

*The Size/Rated capacity and PCD efficiency is provided for informational purposes only, and is not an applicable requirement.

Fuel-Burning Equipment Requirements: Boilers (FB-B3 & FB-B4)

Limitations

1. **Fuel-Burning Equipment Requirements: Limitations - Boilers (FB-B3 & FB-B4)** - Boiler emissions shall be controlled by proper operation and maintenance. Boiler operators shall be trained in the proper operation of all such equipment. Training shall consist of a review of and familiarization with the manufacturer's operating instructions, at minimum. The permittee shall maintain records of the required training, including a statement of time, place and nature of training provided. The permittee shall have available, in writing, good operating procedures and a maintenance schedule for each boiler. These procedures shall be based on the manufacturer's recommendations, at minimum. All records required by this condition shall be kept on site and made available for inspection by DEQ.
(9VAC5-80-110 and Condition 5 of 11/07/2014 Permit Document)

2. **Fuel-Burning Equipment Requirements: Limitations – Boilers (FB-B3 & FB-B4)** - The approved fuels for the boilers are natural gas and distillate oil. A change in the fuels may require a permit to modify and operate.
(9VAC5-80-110 and Condition 22 of 11/07/2014 Permit Document)

3. **Fuel-Burning Equipment Requirements: Limitations – Boilers (FB-B3)** - Boiler 3 shall consume no more than 466.805 x 10^6 cubic feet of natural gas and 3,497,652 gallons of distillate oil per year, each calculated monthly as the sum of the last consecutive 12-month period.
(9VAC5-80-110 and Condition 23 of 11/07/2014 Permit Document)

4. **Fuel-Burning Equipment Requirements: Limitations – Boilers (FB-B4)** - Boiler 4 shall consume no more than 672.673 x 10^6 cubic feet of natural gas and 1,753,235 gallons of distillate oil per year, each calculated monthly as the sum of the last consecutive 12-month period.
(9VAC5-80-110 and Condition 24 of 11/07/2014 Permit Document)

5. **Fuel-Burning Equipment Requirements: Limitations – Boilers (FB-B3 & FB-B4)** - The distillate oil shall meet the ASTM D396 specification or a DEQ-approved equivalent method for numbers 1 or 2 fuel oil:

   Maximum sulfur content per shipment: 0.2%

   (9VAC5-80-110, 40 CFR 60.42c (d) and Condition 25 of 11/07/2014 Permit Document)

6. **Fuel-Burning Equipment Requirements: Limitations – Boilers (FB-B3 & FB-B4)** - The permittee shall obtain a certification from the fuel supplier with each shipment of distillate oil. Each fuel supplier certification shall include the following:

   a. The name of the fuel supplier;

b. The date on which the distillate oil was received;

c. The volume of distillate oil delivered in the shipment;

d. A statement that the distillate oil complies with the American Society for Testing and Materials specifications (ASTM D396) or a DEQ-approved equivalent method for numbers 1 and 2 fuel oil; and

e. The sulfur content of the distillate oil.

(9VAC5-80-110, 40 CFR 60.42c (h), 40 CFR 60.48c (f)(1) and Condition 26 of 11/07/2014 Permit Document)

7. **Fuel-Burning Equipment Requirements: Limitations – Boilers (FB-B3)** - The exhaust stack for Boiler 3 shall be at least 20 meters (65.6 feet) above ground level. (9VAC5-80-110 and Condition 28 of 11/07/2014 Permit Document)

8. **Fuel-Burning Equipment Requirements: Limitations – Boilers (FB-B4)** - The exhaust stack for Boiler 4 shall be at least 25 meters (82.0 feet) above ground level. (9VAC5-80-110 and Condition 29 of 11/07/2014 Permit Document)

9. **Fuel-Burning Equipment Requirements: Limitations – Boilers (FB-B3)** - Emissions from the operation of Boiler 3 shall not exceed the limits specified below:

Particulate Matter	0.80 lbs/hr	3.50 tons/yr
PM-10 (filterable only)	0.40 lbs/hr	1.77 tons/yr
Sulfur Dioxide	11.34 lbs/hr	49.67 tons/yr
Nitrogen Oxides (as NO_2)	7.99 lbs/hr	34.98 tons/yr
Carbon Monoxide	4.48 lbs/hr	19.61 tons/yr
Volatile Organic Compounds	0.29 lbs/hr	1.28 tons/yr

These emissions are derived from the estimated overall emissions contribution from the operating limits. Exceedance of the operating limits shall be considered credible evidence of the exceedance of emission limits. Compliance with these emission limits may be determined as stated in Conditions 2, 3, 5 and 6.
(9VAC5-80-110 and Condition 30 of 11/07/2014 Permit Document)

10. **Fuel-Burning Equipment Requirements: Limitations – Boilers (FB-B4)** - Emissions from the operation of Boiler 4 shall not exceed the limits specified below:

Particulate Matter	1.15 lbs/hr	3.42 tons/yr

PM-10 (filterable only)	0.58 lbs/hr	2.56 tons/yr
Sulfur Dioxide	16.34 lbs/hr	25.03 tons/yr
Nitrogen Oxides (as NO_2)	11.51 lbs/hr	39.47 tons/yr
Carbon Monoxide	6.45 lbs/hr	28.25 tons/yr
Volatile Organic Compounds	0.42 lbs/hr	1.85 tons/yr

These emissions are derived from the estimated overall emissions contribution from the operating limits. Exceedance of the operating limits shall be considered credible evidence of the exceedance of emission limits. Compliance with these emission limits may be determined as stated in Conditions 2, 4, 5 and 6.
(9VAC5-80-110 and Condition 31 of 11/07/2014 Permit Document)

11. **Fuel-Burning Equipment Requirements: Limitations – Boilers (FB-B3 & FB-B4)** - Visible emissions from each boiler stack shall not exceed 10 percent opacity except during one six-minute period in any one hour in which visible emissions shall not exceed 20 percent opacity as determined by EPA Test Method 9 (40 CFR 60, Appendix A). This condition applies at all times except during start-up, shutdown, or malfunction (9VAC5-80-110, 40 CFR 60.43c (c) and Condition 46 of 11/07/2014 Permit Document)

Monitoring

12. **Fuel-Burning Equipment Requirements: Monitoring – Boilers (FB-B4)** – The permittee shall operate Boiler 4 according to a written site-specific monitoring plan approved by DEQ. The monitoring plan shall include procedures and criteria for establishing and monitoring specific parameters for the boiler indicative of compliance with the opacity standard in 40 CFR 60 Subpart Dc.
(9VAC5-80-110 and 40 CFR 60.47c (f)(3))

13. **Fuel-Burning Equipment Requirements: Monitoring - Boilers (FB-B3 & FB-B4)** – The permittee shall observe each boiler stack for no less than two minutes at least once per day that the boiler uses fuel oil, to check for visible emissions, other than condensed water vapor. If visible emissions are observed at the daily check or at any time, the permittee shall:

    a. Take timely corrective action such that the boiler resumes normal operation with no visible emissions, or,

    b. Conduct a visible emissions evaluation (VEE), in accordance with EPA Test Method 9 (40 CFR 60 Appendix A) to determine the percent opacity from the boiler exhaust stack. The VEE shall be conducted for a minimum of six minutes. If any of the observations exceeds 10 percent opacity, the VEE shall be conducted for a total of 60

minutes. If compliance with Condition 11 is not demonstrated by the VEE, timely corrective action shall be taken such that the boiler resumes operation with visible emissions of 10 percent opacity or less.

The permittee shall record the following in a visible emissions observation log: date and time of each observation, name of the observer, whether or not there were visible emissions, any VEE recordings and any necessary corrective action.
(9VAC5-50-20 E and 9VAC5-80-110 E & K)

14. **Fuel-Burning Equipment Requirements: Monitoring – Boilers (FB-B3 & FB-B4) -** The permittee shall observe each boiler exhaust stack over a two-minute period at least once per week that the unit is burning natural gas to check for the presence of visible emissions, other than condensed water vapor. If visible emissions are observed during the weekly check or at any time, the permittee shall:

    a. Take timely corrective action such that the boiler resumes normal operation with no visible emissions, or,

    b. Conduct a visible emissions evaluation (VEE) in accordance with EPA Test Method 9 (40 CFR 60, Appendix A) to determine the percent opacity from the boiler exhaust stack. The VEE shall be conducted for a minimum of six minutes. If any of the observations exceeds 10 percent opacity, the VEE shall be conducted for a total of 60 minutes. If compliance with Condition 11 is not demonstrated by the VEE, timely corrective action shall be taken such that the boiler resumes operation with visible emissions of 10 percent opacity or less.

    The permittee shall record the following in a visible emissions observation log: date and time of each observation, name of the observer, whether or not there were visible emissions, any VEE recordings and any necessary corrective action.

    After conducting the weekly visible emissions observations for a six-month period without observing any visible emissions, the permittee may reduce the frequency of visible emissions observations at the stack from once per week to once per month. The permittee shall conduct the once-per-month observations in accordance with the procedures and requirements described above. If visible emissions are observed from the stack at any time, the corrective action procedures and Method 9 testing described above shall be immediately instituted. After correction of the opacity problem, the permittee shall resume weekly visible emissions observations. Once weekly visible emissions observations are conducted for a six-month period without observation of any visible emissions at any time, a monthly schedule may again be instituted for the stack.
    (9VAC5-80-110 E & K)

Recordkeeping

15. **Fuel-Burning Equipment Requirements: Records – Boilers (FB-B3 & FB-B4)** - The permittee shall maintain records of all emissions data and operating parameters necessary to

demonstrate compliance with this permit. The content and format of such records shall be arranged with the Blue Ridge Regional Office. These records shall include, but are not limited to:

a. Monthly and annual throughput of natural gas (in million cubic feet) and distillate oil (in gallons) for each boiler (FB-B3 and FB-B4), calculated monthly as the sum of each consecutive 12-month period.

b. All fuel supplier certifications.

c. Log of daily, weekly and/or monthly VE observations and any corrective actions taken.

d. Operating, maintenance (scheduled and unscheduled) and operator training records for the boilers as required in Condition 1.

e. Operation and other records as needed to demonstrate that each boiler meets the definition of gas-fired boiler in 40 CFR 63.11237.

These records shall be available on site for inspection by the DEQ and shall be current for the most recent five years.
(9VAC5-50-50, 9VAC5-80-110, 40 CFR 60.48c (e)(11), 40 CFR 60.48c (g)(2) and Condition 52 of 11/07/2014 Permit Document)

Reporting

16. **Fuel-Burning Equipment Requirements: Reporting – Boilers (FB-B4)** - The permittee shall submit fuel quality reports to the Blue Ridge Regional Office, no later than January 30 and July 30 of each calendar year, unless otherwise approved in writing. The reports shall include:

    a. The time period included in the report. The time periods to be addressed are January 1 to June 30 and July 1 to December 31. If there was no fuel received during the time period, the permittee shall include a statement in the report that "no fuel was received during the semiannual period."

    b. A copy of all fuel supplier certifications for all shipments of each fuel received during the semiannual period that includes the information specified in Condition 6 for each shipment of fuel; and

    c. A signed statement from the owner or operator of the facility that the fuel supplier certifications represent all of the fuel burned or received at the facility.

    (9VAC5-80-110, 40 CFR 40.48c (e) and (j) and Condition 53 of 11/07/2014 Permit Document)

Process Equipment Requirements: Rubber Solvent Use (SOLV)

Limitations

17. **Process Equipment Requirements: Limitations - Rubber Solvent Use (SOLV)** - Use of "Rubber Solvent" shall not exceed 9,000 gallons per year, calculated monthly as the sum of each consecutive 12-month period. Compliance for the consecutive 12-month period shall be demonstrated monthly by adding the total for the most recently completed calendar month to the individual monthly totals for the preceding 11 months.
(9VAC5-80-110 and Condition 12 of 11/07/2014 Permit Document)

18. **Process Equipment Requirements: Limitations - Rubber Solvent Use (SOLV)** - Emissions from "Rubber Solvent" use shall not exceed the limits specified below:

Volatile Organic Compounds	25.88 tons/yr

    These emissions are derived from the estimated overall emissions contribution from the operating limits. Exceedance of the operating limits shall be considered credible evidence of the exceedance of emission limits. Compliance with these emission limits may be determined as stated in Condition 17.
    (9VAC5-80-110 and Condition 42 of 11/07/2014 Permit Document)

Monitoring and Recordkeeping

19. **Process Equipment Requirements: Records – Rubber Solvent Use (SOLV) -** The permittee shall maintain records of emissions data and operating parameters as necessary to demonstrate compliance with this permit. The content and format of such records shall be arranged with the Blue Ridge Regional Office. These records shall include, but are not limited to:

    a. Monthly and annual consumption of "Rubber Solvent" (in gallons). Annual consumption shall be calculated monthly as the sum of each consecutive 12-month period.

    b. Monthly and annual VOC emissions, calculated monthly as the sum of each consecutive 12-month period to demonstrate compliance with the limit in Condition 18.

    c. Current Material Safety Data Sheets (MSDS), Certified Product Data Sheets (CPDS), or other vendor information as approved by the DEQ showing VOC and HAP content for each solvent used.

    These records shall be available for inspection by the DEQ and shall be current for the most recent five years.
    (9VAC5-80-110 and Condition 52 of 11/07/2014 Permit Document)

Process Equipment Requirements: Silane Use (SILANE)

Limitations

20. **Process Equipment Requirements: Limitations – Silane Use (SILANE)** - The annual use of silane shall not exceed 478,000 pounds, calculated monthly as the sum of each consecutive 12-month period. Compliance for the consecutive 12-month period shall be demonstrated monthly by adding the total for the most recently completed calendar month to the individual monthly totals for the preceding 11 months.
(9VAC5-80-110 and Condition 1 of 10/25/2022 Permit Document)

21. **Process Equipment Requirements: Limitations – Silane Use (SILANE) -** Emissions from silane use shall not exceed the limits specified below:

Volatile Organic Compounds	0.51 lb/lb silane coupler	122.6 tons/yr

These emissions are derived from the estimated overall emissions contribution from operating limits. Exceedance of the operating limits may be considered credible evidence of the exceedance of emission limits. Compliance with these emission limits may be determined as stated in Conditions 20 and 22.
(9VAC5-80-110 and Condition 2 of 10/25/2022 Permit Document)

Monitoring and Recordkeeping

22. **Process Equipment Requirements: Records – Silane Use (SILANE) -** The permittee shall maintain records of emissions data and operating parameters as necessary to demonstrate compliance with this permit. The content and format of such records shall be arranged with the Blue Ridge Regional Office. These records shall include, but are not limited to:

    a. Monthly and annual use of silane (in pounds), calculated monthly as the sum of each consecutive 12-month period. Annual use shall be calculated monthly by adding the total for the most recently completed calendar month to the individual monthly totals for the preceding 11 months.

    b. Monthly and annual emissions calculations for VOC from the use of silane-containing coupling agents using calculation methods approved by the Blue Ridge Regional Office to verify compliance with the emissions limitations in Condition 21. Annual emissions shall be calculated monthly as the sum of each consecutive 12-month period.

    c. Current MSDS, CPDS, or other vendor information as approved by the DEQ showing VOC and HAP content for silane used.

These records shall be available for inspection by the DEQ and shall be current for the most recent five years.
(9VAC5-80-110 and Condition 3 of 10/25/2022 Permit Document)

Process Equipment Requirements: Printers (PR-1)

Limitations

23. **Process Equipment Requirements: Limitations – Printers (PR-1) -** Emissions from the printing operations (6 inkjet and offset printers) shall not exceed the limits specified below:

    Volatile Organic Compounds 2.29 tons/yr

    These emissions are derived from the estimated overall emissions contribution from operating limits. Exceedance of the operating limits may be considered credible evidence of the exceedance of emission limits. Compliance with these emission limits may be determined as stated in Condition 24.
    (9VAC5-80-110 and Condition 43 of 11/07/2014 Permit Document)

Monitoring and Recordkeeping

24. **Process Equipment Requirements: Records – Printers (PR-1) -** The permittee shall maintain records of emission data and operating parameters as necessary to demonstrate compliance with this permit. The content and format of such records shall be arranged with the Blue Ridge Regional Office. These records shall include, but are not limited to:

    a. Monthly and annual VOC emissions from printing operations (PR-1), calculated monthly as the sum of each consecutive 12-month period.

    b. Current MSDS, CPDS, or other vendor information as approved by the DEQ showing VOC and HAP content for each ink used.

    These records shall be available for inspection by the DEQ and shall be current for the most recent five years.
    (9VAC5-80-110 and Condition 52 of 11/07/2014 Permit Document)

Process Equipment Requirements: Division 100 - Mixing (1-CBS, 1-IM & 1-IM-C)

Limitations

25. **Process Equipment Requirements: Limitations – Division 100 (1-IM & 1-IM-C) -** Particulate emissions from the Internal Mixers shall be controlled by baghouses. The

baghouses shall be provided with adequate access for inspection and equipped with a device to continuously measure the differential pressure drop across the baghouse. The device shall be installed in an accessible location and shall be maintained by the permittee such that it is in proper working order at all times.
(9VAC5-80-110 and Condition 2 of 11/07/2014 Permit Document)

26. **Process Equipment Requirements: Limitations – Division 100 (1-CBS)** - Particulate emissions from the carbon black storage silos shall be controlled by bin vents.
(9VAC5-80-110 and Condition 3 of 11/07/2014 Permit Document)

27. **Process Equipment Requirements: Limitations – Division 100 (1-CBS, 1-IM & 1-IM-C)** - Division 100 shall process no more than 198,093,240 pounds of rubber per year, calculated monthly as the sum of each consecutive 12-month period. Compliance for the consecutive 12-month period shall be demonstrated monthly by adding the total for the most recently completed calendar month to the individual monthly totals for the preceding 11 months.
(9VAC5-80-110 and Condition 14 of 11/07/2014 Permit Document)

28. **Process Equipment Requirements: Limitations – Division 100 (1-CBS, 1-IM & 1-IM-C)** - Total emissions from the operation of the carbon black transfer, internal mixers, compound mixing and weighing stations (excluding VOC emissions from silane use) shall not exceed the limits specified below:

Particulate Matter	2.47 lbs/hr	9.75 tons/yr
PM-10	0.63 lbs/hr	2.46 tons/yr
Volatile Organic Compounds	11.20 lbs/hr	10.55 tons/yr

These emissions are derived from the estimated overall emissions contribution from the operating limits. Exceedance of the operating limits shall be considered credible evidence of the exceedance of emission limits. Compliance with these emission limits may be determined as stated in Conditions 27 and 40.
(9VAC5-80-110 and Condition 32 of 11/07/2014 Permit Document)

29. **Process Equipment Requirements: Limitations – Division 100 (1-CBS, 1-IM & 1-IM-C)** - Visible emissions from the baghouses and bin vents shall not exceed three percent opacity as determined by EPA Test Method 9 (40 CFR 60, Appendix A).
(9VAC5-80-110 and Condition 48 of 11/07/2014 Permit Document)

Monitoring

30. **Process Equipment Requirements: Monitoring – Division 100 (1-IM & 1-IM-C)** - The ductwork and baghouses shall be inspected from the outside each week for leaks, while the process equipment is operating. Pressure drop on the baghouses shall be monitored

continuously and recorded daily. Any necessary maintenance shall be done in a timely fashion.
(9VAC5-80-110 and Condition 9 of 11/07/2014 Permit Document)

31. **Process Equipment Requirements: Monitoring – Division 100 (1-CBS, 1-IM, & 1-IM-C)** - The permittee shall observe the exhaust stacks of each baghouse and each bin vent filter over a two-minute period at least once per day while the processes are operating to check for the presence of visible emissions, other than condensed water vapor. If visible emissions are observed during the daily check or at any time, the permittee shall:

    a. Take timely corrective action such that the process(es) resumes normal operation with no visible emissions from the exhaust stack or bin vent; or

    b. Conduct a visible emissions evaluation (VEE) in accordance with EPA Test Method 9 (40 CFR 60, Appendix A) to determine the percent opacity from the baghouse exhaust stack(s) or bin vent filters. The VEE shall be conducted for a minimum of six minutes. If any of the observations exceed three percent opacity, the VEE shall be conducted for a total of 60 minutes. If compliance with Condition 29 is not demonstrated by the VEE, timely corrective action shall be taken such that the process(es) resumes operation with visible emissions of three percent or less.

    The permittee shall record the following in a visible emissions observation log: date and time of each observation, name of the observer, whether or not there were visible emissions, any VEE recordings and any necessary corrective action. The fact that the process equipment served by a bin vent or baghouse was not operated shall be noted in the log book, if applicable.
    (9VAC5-80-110 E & K and Condition 50 of 11/07/2014 Permit Document)

32. **Process Equipment Requirements: Monitoring – Division 100 (1-IM Mixers 1, 2 & 3) – Compliance Assurance Monitoring (CAM)** - The permittee shall monitor, operate, calibrate and maintain Baghouses 1, 2 and 3 (BH-1A, BH-1B & BH-1C) controlling Mixers 1, 2 and 3 (M1 – M3) according to the following:

Indicators	1: Baghouse Pressure Drop	2. Visible Emissions	3. Structural Integrity
Measurement Approach	Daily observation of the differential pressure gauge	EPA Method 22 (40 CFR 60, Appendix A) observations; EPA Method 9 (40 CFR 60, Appendix A) conducted if permittee sees visible emissions	Routine maintenance and inspection; maintenance performed as needed
Indicator Range	An excursion is defined as a pressure loss through the fabric filter as follows: Each baghouse (BH-1A, BH-1B & BH-1C): <10 or >13 in inches water column Excursions trigger inspection, corrective action and reporting.	An excursion is defined as the presence of visible emissions. An exceedance is defined as opacity greater than three percent (6-minute average) when conducting Method 9 evaluation. Excursions or exceedances trigger inspection, corrective action and reporting.	An excursion is defined as failure to conduct monthly inspection. Excursions trigger inspection, corrective action and reporting.
QIP Threshold	More than two excursions in a two-week period, per baghouse	More than three excursions or exceedances in a six-month period	NA
Performance Criteria: Data Representativeness	The differential pressure gauge continuously monitors the static pressure across the fabric filter for comparison to a range indicative of proper operation.	Observations are conducted at the baghouse exhausts while mixers and baghouses are operating.	Inspections are performed at each baghouse while the unit is operating and shall include structural components such as unit housing and ductwork.
Performance Criteria: Verification of Operational Status	NA	NA	NA
Performance Criteria: QA/QC Practices and Criteria	Factory calibrated. Annual calibration in accordance with manufacturer's recommendations.	Method 9 observer is certified every six months.	Qualified personnel perform inspection.

Indicators	1: Baghouse Pressure Drop	2. Visible Emissions	3. Structural Integrity
Performance Criteria: Monitoring Frequency	Pressure gauges monitor continuously. Gauges are observed at least once per operating day.	Method 22 observations at least daily; Method 9 conducted as needed	Inspections occur at least weekly. Maintenance is performed as needed.
Data Collection Procedures	Pressure gauges are observed at least once per operating day and results are manually recorded in a logbook.	Method 22 observations are conducted by a trained observer, while mixers and baghouses are operating. Method 9 observations are conducted by a certified observer while mixers and baghouses are operating. All records are maintained on site.	Records are maintained to document all inspections and any required maintenance.

(9VAC5-80-110 and 40 CFR 64.6(c))

33. **Process Equipment Requirements: CAM – Division 100 (1-IM Mixers 1, 2 & 3) -** The permittee shall conduct the monitoring and fulfill the other obligations specified in 40 CFR 64.7 through 40 CFR 64.9.
(9VAC5-80-110 and 40 CFR 64.6 (c))

34. **Process Equipment Requirements: CAM – Division 100 (1-IM Mixers 1, 2 & 3) –** At all times, the permittee shall maintain the monitoring equipment, including, but not limited to, maintaining necessary parts for routine repairs of the monitoring equipment.
(9VAC5-80-110 and 40 CFR 64.7 (b))

35. **Process Equipment Requirements: CAM – Division 100 (1-IM Mixers 1, 2 & 3) –** Except for, as applicable, monitoring malfunctions, associated repairs, and required quality assurance or control activities (including, as applicable, calibration checks and required zero and span adjustments), the permittee shall conduct all monitoring in continuous operation (or shall collect data at all required intervals) at all times that Mixers 1, 2 or 3 are operating. Data recorded during monitoring malfunctions, associated repairs, and required quality assurance or control activities shall not be used for purposes of compliance assurance monitoring, including data averages and calculations, or fulfilling a minimum data availability requirement, if applicable. The permittee shall use all the data collected during all other periods in assessing the operation of the control device and associated control system. A monitoring malfunction is any sudden, infrequent, not reasonably preventable failure of the monitoring to provide valid data. Monitoring failures that are caused in part by inadequate maintenance or improper operation are not malfunctions.
(9VAC5-80-110 and 40 CFR 64.7 (c))

36. **Process Equipment Requirements: CAM – Division 100 (1-IM Mixers 1, 2 & 3) -** Upon detecting an excursion or exceedance, the permittee shall restore operation of Mixer 1, 2 or 3 (including the control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions. The response shall include minimizing the period of any startup, shutdown or malfunction and taking any necessary corrective actions to restore normal operation and prevent the likely recurrence of the cause of an excursion or exceedance (other than those caused by excused startup and shutdown conditions). Such actions may include initial inspection and evaluation, recording that operations returned to normal without operator action (such as through response by a computerized distribution control system), or any necessary follow-up actions to return operation to within the indicator, designated condition, or below the applicable emission limitation or standard, as applicable.
(9VAC5-80-110 and 40 CFR 64.7 (d)(1))

37. **Process Equipment Requirements: CAM – Division 100 (1-IM Mixers 1, 2 & 3) –** Determination that acceptable procedures were used in response to an excursion or exceedance will be based on information available, which may include but is not limited to, monitoring results, review of operation and maintenance procedures and records, and inspection of the control device, associated capture system, and the process.
(9VAC5-80-110 and 40 CFR 64.7(d)(2))

38. **Process Equipment Requirements: CAM – Division 100 (1-IM Mixers 1, 2 & 3) –** If the permittee identifies a failure to achieve compliance with an emission limitation or standard for which the approved monitoring did not provide an indication of an excursion or exceedance while providing valid data, or the results of compliance or performance testing document a need to modify the existing indicator ranges or designated conditions, the permittee shall promptly notify the Blue Ridge Regional Office and, if necessary, submit a proposed modification to this permit to address the necessary monitoring changes. Such a modification may include, but is not limited to, reestablishing indicator ranges or designated conditions, modifying the frequency of conducting monitoring and collecting data, or the monitoring of additional parameters.
(9VAC5-80-110 and 40 CFR 64.7(e))

39. **Process Equipment Requirements: CAM – Division 100 (1-IM Mixers 1, 2 & 3) –** If the number of exceedances or excursions exceeds five percent duration of the operating time for Mixers 1, 2 or 3 for a semiannual reporting period, the permittee shall develop, implement and maintain a Quality Improvement Plan (QIP) in accordance with 40 CFR 64.8. If a QIP is required, the permittee shall have it available for inspection. The QIP initially shall include procedures for evaluating the control performance problems and, based on the results of the evaluation procedures, the permittee shall modify the plan to include procedures for conducting one or more of the following, as appropriate:

    a. Improved preventative maintenance practices;

    b. Process operation changes;

    c. Appropriate improvements to control methods;

    d. Other steps appropriate to correct control performance; and

    e. More frequent or improved monitoring.

    (9VAC5-80-110 and 40 CFR 64.8(a) and (b))

Recordkeeping

40. **Process Equipment Requirements: Records – Division 100 (1-CBS, 1-IM & 1-IM-C) -** The permittee shall maintain records of emissions data and operating parameters as necessary to demonstrate compliance with this permit. The content and format of such records shall be arranged with the Blue Ridge Regional Office. These records shall include, but are not limited to:

    a. Monthly and annual mass of rubber (in pounds) processed through Division 100 processes (1-CBS, 1-IM and 1-IM-C). Annual throughput shall be calculated monthly as the sum of each consecutive 12-month period.

    b. Operating hours for Division 100 units (1-CBS, 1-IM & 1-IM-C).

c. Hourly and annual emissions of PM, PM-10 and VOC, as applicable, using emission factors approved by DEQ, to demonstrate compliance with the limits in Condition 28. Hourly emissions shall be calculated monthly as a monthly average based on operating hours for the month. Annual emissions shall be calculated monthly as the sum of each consecutive 12-month period.

d. MSDS, CPDS, or other vendor information as approved by the DEQ showing VOC and HAP content for each raw material used.

e. Operation and control device monitoring records for the baghouses as required in Conditions 25 and 30 and maintenance records for the baghouses and ductwork. The records shall include diagrams which show the specific location(s) of filter media which have failed since the last overall replacement of filter media.

f. Visible emissions observations and any corrective action(s) taken, as required in Condition 31.

g. All performance test results and documentation.

These records shall be available for inspection by the DEQ and shall be current for the most recent five years.
(9VAC5-80-110 and Condition 52 of 11/07/2014 Permit Document)

41. **Process Equipment Requirements: CAM Recordkeeping – Division 100 (1-IM Mixers 1, 2 & 3)** – The permittee shall maintain records of monitoring data, monitor performance data, corrective actions taken, any written quality improvement plan (QIP) required pursuant to 40 CFR 64.8, any activities undertaken to implement a QIP, and other supporting information required to be maintained under 40 CFR 64 (such as data used to document the adequacy of monitoring, or records of monitoring maintenance or corrective actions).
(9VAC5-80-110 and 40 CFR 64.9(b))

Testing

42. **Process Equipment Requirements: Testing – Division 100 (1-IM Mixers 1, 2 & 3) –** The permittee shall conduct a performance test for PM10 from Baghouse 2 (BH-1B) and from one of the remaining baghouses (BH-1A or BH-1C) treating emissions from Mixers 1, 2 and 3 using EPA Method 201A (40 CFR 51, Appendix M) to determine compliance with the emission limit in Condition 28. The tests shall be performed, reported and demonstrate compliance within 180 days of the permit effective date. Tests shall be conducted and reported and data reduced as set forth in 9VAC5-50-30 and the test methods and procedures contained in each applicable section or subpart listed in 9VAC5-50-410. The performance test shall include a test method performance audit, where applicable. The details of the tests are to be arranged with the Blue Ridge Regional Office. The permittee shall submit a test protocol at least 30 days prior to testing. One copy of the test results shall be submitted to

the Blue Ridge Regional Office within 45 days after test completion and shall conform to the test report format enclosed with this permit.
(9VAC5-80-110)

Reporting

43. **Process Equipment Requirements: CAM Reporting – Division 100 (1-IM Mixers 1, 2 & 3)** - The permittee shall submit CAM reports as part of the Title V semiannual monitoring reports required by General Condition 102 of this permit to the Blue Ridge Regional Office. Such reports shall include at a minimum:

    a. Summary information on the number, duration and cause (including unknown cause, if applicable) of excursions or exceedances, as applicable, and the corrective actions taken;

    b. Summary information on the number, duration and cause (including unknown cause, if applicable) for monitor downtime incidents (other than downtime associated with zero and span or other daily calibration checks, if applicable); and

    c. A description of the actions taken to implement a quality improvement plan (QIP) during the reporting period as specified in 40 CFR 64.8. Upon completion of a QIP, the owner or operator shall include in the next summary report documentation that the implementation of the plan has been completed and reduced the likelihood of similar levels of excursions or exceedances occurring.

    (9VAC5-80-110 F and 40 CFR 64.9(a))

Process Equipment Requirements: Division 200 – Milling, Extruding & Calendering (2-CALa, 2-CALb, 2-EX, 2-TEND & 2-WMILL)

Limitations

44. **Process Equipment Requirements: Limitations - Division 200 (2-TEND)** - VOC emissions from the tread end cementing process shall be controlled by utilizing improved-efficiency nozzles for spray delivery.
(9VAC5-40-600 B, 9VAC5-80-110 and Condition 6 of 11/07/2014 Permit Document)

45. **Process Equipment Requirements: Limitations - Division 200 (2-TEND)** - The tread end cementing operations shall consume no more than 9,900 gallons of cement per year, calculated monthly as the sum of each consecutive 12-month period. Compliance for the consecutive 12-month period shall be demonstrated monthly by adding the total for the most recently completed calendar month to the individual monthly totals for the preceding 11 months.
(9VAC5-80-110 and Condition 11 of 11/07/2014 Permit Document)

46. **Process Equipment Requirements: Limitations - Division 200 (2-EX)** - The extruder operations shall process no more than 121,866,840 pounds of rubber per year, calculated monthly as the sum of each consecutive 12-month period. Compliance for the consecutive 12-month period shall be demonstrated monthly by adding the total for the most recently completed calendar month to the individual monthly totals for the preceding 11 months. (9VAC5-80-110 and Condition 15 of 11/07/2014 Permit Document)

47. **Process Equipment Requirements: Limitations - Division 200 (2-CALa & 2-CALb)** - The calender operations shall process no more than 67,397,180 pounds of rubber per year, calculated monthly as the sum of each consecutive 12-month period. Compliance for the consecutive 12-month period shall be demonstrated monthly by adding the total for the most recently completed calendar month to the individual monthly totals for the preceding 11 months.
(9VAC5-80-110 and Condition 16 of 11/07/2014 Permit Document)

48. **Process Equipment Requirements: Limitations - Division 200 (2-WMILL)** - The warm-up mills shall process no more than 67,397,180 pounds of rubber per year, calculated monthly as the sum of each consecutive 12-month period. Compliance for the consecutive 12-month period shall be demonstrated monthly by adding the total for the most recently completed calendar month to the individual monthly totals for the preceding 11 months. (9VAC5-80-110 and Condition 17 of 11/07/2014 Permit Document)

49. **Process Equipment Requirements: Limitations - Division 200 (2-WMILL)** - Emissions from the operation of the Warm-up Mills shall not exceed the limits specified below:

Volatile Organic Compounds	3.81 tons/yr

    These emissions are derived from the estimated overall emissions contribution from the operating limits. Exceedance of the operating limits shall be considered credible evidence of the exceedance of emission limits. Compliance with these emission limits may be determined as stated in Condition 48.
    (9VAC5-80-110 and Condition 33 of 11/07/2014 Permit Document)

50. **Process Equipment Requirements: Limitations - Division 200 (2-CALa & 2-CALb)** - Emissions from the operation of the Calenders shall not exceed the limits specified below:

Volatile Organic Compounds	2.01 tons/yr

    These emissions are derived from the estimated overall emissions contribution from the operating limits. Exceedance of the operating limits shall be considered credible evidence of the exceedance of emission limits. Compliance with these emission limits may be determined as stated in Condition 47.
    (9VAC5-80-110 and Condition 34 of 11/07/2014 Permit Document)

51. **Process Equipment Requirements: Limitations - Division 200 (2-EX)** - Emissions from the operation of the Extruders (excluding VOC emissions from silane use) shall not exceed the limits specified below:

    Volatile Organic Compounds 1.51 tons/yr

    These emissions are derived from the estimated overall emissions contribution from the operating limits. Exceedance of the operating limits shall be considered credible evidence of the exceedance of emission limits. Compliance with these emission limits may be determined as stated in Condition 46.
    (9VAC5-80-110 and Condition 35 of 11/07/2014 Permit Document)

52. **Process Equipment Requirements: Limitations - Division 200 (2-TEND)** - Emissions from the operation of the Tread End Cementers shall not exceed the limits specified below:

    Volatile Organic Compounds 31.19 tons/yr

    These emissions are derived from the estimated overall emissions contribution from the operating limits. Exceedance of the operating limits shall be considered credible evidence of the exceedance of emission limits. Compliance with these emission limits may be determined as stated in Condition 45.
    (9VAC5-80-110 and Condition 36 of 11/07/2014 Permit Document)

53. **Process Equipment Requirements: Limitations - Division 200 (2CALa, 2-CALb, 2-EX, 2-TEND & 2-WMILL) –** Visible emissions from Division 200 processes shall not exceed 20 percent opacity except during one six-minute period in any one hour in which visible emissions shall not exceed 30 percent opacity.
    (9VAC5-50-80 and 9VAC5-80-110)

54. **Process Equipment Requirements: Limitations – Division 200 (2-TEND) –** For each tread end cementing operation, the permittee shall discharge into the atmosphere no more than 5.0 grams (0.011 lb) of VOC per tire cemented, calculated monthly as a monthly average.
    (9VAC5-40-600 B, 9VAC5-80-110 and 40 CFR 60.542(a) (3))

Monitoring

55. **Process Equipment Requirements: Monitoring – Division 200 (2-TEND) -** For each tread end cementing operation where water-based cements containing 1.0 percent, by weight, of VOC or more are used (inside and/or outside) that do not use a VOC emission reduction system, the permittee shall use the following procedure to determine compliance with the VOC emission per tire limits specified in Condition 54.

    a. Determine the density and weight fraction VOC as specified in 40 CFR 60.543 (c) (1).

b. Calculate the total mass of VOC used at the affected facility for the month (M_o) as specified under 40 CFR 60.543 (c) (2).

c. Determine the total number of tires cemented at the affected facility for the month (*To*) by the following procedure: 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.

d. Calculate the mass of VOC used per tire cemented, as applicable, at the affected facility for the month (*G*):

$$G = \frac{M_0}{T_0}$$

e. Calculate the mass of VOC emitted per tire cemented, as applicable, at the affected facility for the month (*N*):

$$N = G$$

In determining compliance for each tread end cementing operation, the permittee shall include only those tires defined under 40 CFR 60.541(a) when determining T_o. (9VAC5-80-110 and 40 CFR 60.543(d) and (m))

Recordkeeping

56. **Process Equipment Requirements: Records – Division 200 (2-CALa, 2-CALb, 2-EX, 2-TEND & 2-WMILL)** - The permittee shall maintain records of emission data and operating parameters as necessary to demonstrate compliance with this permit. The content and format of such records shall be arranged with the Blue Ridge Regional Office. These records shall include, but are not limited to:

a. Monthly and annual production of rubber (in pounds) through each of the following processes: calender operations (2-CALa and 2-CALb); warm-up mills (2-WMILL); and extruders (2-EX). Annual production shall be calculated monthly as the sum of each consecutive 12-month period.

b. Monthly and annual consumption of cement (in gallons) used in the tread end cementing (2-TEND) operations. Annual consumption shall be calculated monthly as the sum of each consecutive 12-month period.

c. Monthly and annual VOC emissions from each of the following processes: warm-up mills (2-WMILL); calender operations (2-CALa and 2-CALb); extruders (2-EX); and tread-end cementing (2-TEND). Annual emissions shall be calculated monthly as the sum of each consecutive 12-month period.

d. Current MSDS, CPDS, or other vendor information as approved by the DEQ showing VOC and HAP content for each cement used.

e. If the permittee uses water-based cements containing less than 1.0 percent by weight of VOC, as specified under 40 CFR 60.543(b)(4), it shall maintain records of formulation data or the results of Method 24 analysis conducted to verify the VOC content of the spray.

f. For tread-end cementing (2-TEND) spray nozzle(s), manufacturer's specifications demonstrating that nozzles are designed to achieve improved application efficiency and reduced overspray.

These records shall be available for inspection by the DEQ and shall be current for the most recent five years.
(9VAC5-80-110, 40 CFR 60.545(f) and Condition 52 of 11/07/2014 Permit Document)

Testing

57. **Process Equipment Requirements: Tests – Division 200 (2-TEND)** – EPA Test Method 24 (40 CFR 60, Appendix A) or formulation data shall be used for the determination of the VOC content of cements to determine compliance with Condition 54. In the event of dispute, Method 24 shall be the reference method. For Method 24, the cement sample shall be a 1-liter sample collected in a 1-liter container at a point where the sample will be representative of the material as applied in the affected facility.
(9VAC5-80-110 and 40 CFR 60.547(a) (1))

Reporting

58. **Process Equipment Requirements: Reports – Division 200 (2-TEND) –** If the tread-end cementing operation uses only water-based sprays (inside and/or outside) containing less than 1.0 percent, by weight, of VOC, the permittee is not required to conduct a monthly performance test as described in 40 CFR 60.543(d). In lieu of conducting a monthly performance test, the permittee shall submit annually to DEQ, for each tread-end cementing operation, formulation data or the results of Method 24 analysis to verify the VOC content of each tread-end cement, provided the spraying formulation has not changed during the previous 12 months. If the spray material formulation changes before the end of the 12-month reporting period, 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 of the change.
(9VAC5-80-110, 40 CFR 60.543(b) (4) and 40 CFR 60.546(j))

59. **Process Equipment Requirements: Reports – Division 200 (2-TEND) -** Once every six months, the permittee shall report to DEQ, as applicable, each monthly average VOC emission rate that exceeds the per-tire VOC emission limit per tire specified in Condition 54.
(9VAC5-80-110 and 40 CFR 60.546(f))

Process Equipment Requirements: Division 500 - Green Tire Spraying & Curing (5-CP, 5-GTS & 5-PTP)

Limitations

60. **Process Equipment Requirements: Limitations – Division 500 (5-PTP)** - The use of Precure Tire Paint (PTP) shall not exceed 800 gallons per year, calculated monthly as the sum of each consecutive 12-month period. Compliance for the consecutive 12-month period shall be demonstrated monthly by adding the total for the most recently completed calendar month to the individual monthly totals for the preceding 11 months. Maximum VOC content of the PTP shall be 5.64 lbs/gal.
(9VAC5-80-110 and Condition 13 of 11/07/2014 Permit Document)

61. **Process Equipment Requirements: Limitations – Division 500 (5-GTS)** - The Green Tire Spray (GTS) operations shall use no more than 72,000 gallons of spray per year, calculated monthly as the sum of each consecutive 12-month period. Compliance for the consecutive 12-month period shall be demonstrated monthly by adding the total for the most recently completed calendar month to the individual monthly totals for the preceding 11 months. Maximum VOC content of spray shall be 0.102 lb/gal.
(9VAC5-40-600 D, 9VAC5-80-110 and Condition 18 of 11/07/2014 Permit Document)

62. **Process Equipment Requirements: Limitations – Division 500 (5-CP)** - The Curing Presses (CP) shall process no more than 181,035,061 pounds of rubber per year, calculated monthly as the sum of each consecutive 12-month period. Compliance for the consecutive 12-month period shall be demonstrated monthly by adding the total for the most recently completed calendar month to the individual monthly totals for the preceding 11 months.
(9VAC5-80-110 and Condition 19 of 11/07/2014 Permit Document)

63. **Process Equipment Requirements: Limitations – Division 500 (5-GTS)** - Emissions from the operation of the Green Tire Spray operation shall not exceed the limits specified below.

Particulate Matter	2.62 lbs/hr	7.43 tons/yr
PM-10	2.62 lbs/hr	7.43 tons/yr
Volatile Organic Compounds		3.67 tons/yr

These emissions are derived from the estimated overall emissions contribution from the operating limits. Exceedance of the operating limits shall be considered credible evidence of the exceedance of emission limits. Compliance with these emission limits may be determined as stated in Condition 61.
(9VAC5-40-600 D, 9VAC5-80-110 and Condition 37 of 11/07/2014 Permit Document)

64. **Process Equipment Requirements: Limitations – Division 500 (5-PTP)** - Emissions from use of PTP shall not exceed the limits specified below.

Volatile Organic Compounds	2.26 tons/yr

These emissions are derived from the estimated overall emissions contribution from the operating limits. Exceedance of the operating limits shall be considered credible evidence of the exceedance of emission limits. Compliance with these emission limits may be determined as stated in Condition 60.
(9VAC5-80-110 and Condition 38 of 11/07/2014 Permit Document)

65. **Process Equipment Requirements: Limitations – Division 500 (5-CP)** - Total emissions from the operation of the Curing Presses (excluding VOC emissions from silane use) shall not exceed the limits specified below.

Particulate Matter	24.81 lbs/hr	67.12 tons/yr
PM-10	22.68 lbs/hr	56.95 tons/yr
Volatile Organic Compounds	8.31 lbs/hr	21.72 tons/yr

These emissions are derived from the estimated overall emissions contribution from the operating limits. Exceedance of the operating limits shall be considered credible evidence of the exceedance of emission limits. Compliance with these emission limits may be determined as stated in Condition 62.
(9VAC5-80-110 and Condition 39 of 11/07/2014 Permit Document)

66. **Process Equipment Requirements: Limitations – Division 500 (5-CP)** - Visible emissions from the roof exhausts in the curing press area shall not exceed five percent opacity as determined by EPA Test Method 9 (40 CFR 60, Appendix A).
(9VAC5-80-110 and Condition 47 of 11/07/2014 Permit Document)

67. **Process Equipment Requirements: Limitations – Division 500 (5-GTS)** - For each green tire spraying operation where only water-based sprays are used, the permittee shall:

    a. Discharge into the atmosphere no more than 1.2 grams (0.0026 lb) of VOC per tire sprayed with an inside green tire spray for each month; and

    b. Discharge into the atmosphere no more than 9.3 grams (0.021 lb) of VOC per tire sprayed with an outside green tire spray for each month.

    (9VAC5-80-110 and 40 CFR 60.542(a) (5))

Monitoring

68. **Process Equipment Requirements: Monitoring – Division 500 (5-CP)** –The permittee shall observe each of the roof exhausts in the curing press area over a two-minute period at least once per week while the process is operating to check for the presence of visible emissions, other than condensed water vapor. If visible emissions are observed during the weekly check or at any time, the permittee shall:

    a. Take timely corrective action such that the curing press(es) resume normal operation with no visible emissions from the exhaust stack, or,

    b. Conduct a visible emissions evaluation (VEE) in accordance with EPA Test Method 9 (40 CFR 60, Appendix A) to determine the percent opacity from the roof exhausts in the curing press area. The VEE shall be conducted for a minimum of six minutes. If any of the observations exceed five percent opacity, the VEE shall be conducted for a total of 60 minutes. If compliance with Condition 66 is not demonstrated by this VEE, timely corrective action shall be taken such that the curing presses resume operation with visible emissions of five percent or less.

    The permittee shall record the following in a visible emissions observation log: date and time of each observation, name of the observer, whether or not there were visible emissions, any VEE recordings and any necessary corrective action.

    After conducting the weekly visible emissions observations for a six-month period without observing any visible emissions, the permittee may reduce the frequency of visible emissions observations at the roof exhaust from once per week to once per month. The permittee shall conduct the once-per-month observations in accordance with the procedures and requirements described above. If visible emissions are observed from any of the roof exhausts in the curing press area at any time, the corrective action procedures and Method 9 testing described above shall be immediately instituted. After correction of the opacity problem, the permittee shall resume weekly visible emissions observations. Once weekly visible emissions observations are conducted for a six-month period without observation of any visible emissions, a monthly schedule may again be instituted for the roof exhaust. (9VAC5-50-20 E and 9VAC5-80-110 E & K)

69. **Process Equipment Requirements: Monitoring – Division 500 (5-GTS)** - For each green tire spraying operation where water-based sprays containing 1.0 percent, by weight, of VOC or more are used (inside and/or outside) that do not use a VOC emission reduction system, the permittee shall use the following procedure to determine compliance with the VOC emission per tire limits specified in Condition 67.

    a. Determine the density and weight fraction VOC as specified in 40 CFR 60.543 (c) (1).

    b. Calculate the total mass of VOC used at the affected facility for the month (Mo) as specified under 40 CFR 60.543 (c) (2).

c. Determine the total number of tires sprayed at the affected facility for the month (To) by the following procedure:

i. For a green tire spraying operation that uses water-based inside green tire sprays, To equals the number of green tires that receive an application of water-based inside green tire spray for the month.

ii. For a green tire spraying operation that uses water-based outside green tire sprays, To equals the number of green tires that receive an application of water-based outside green tire spray for the month.

d. Calculate the mass of VOC used per tire sprayed, as applicable, at the affected facility for the month (G):

$$G = \frac{M_0}{T_0}$$

e. Calculate the mass of VOC emitted per tire sprayed, as applicable, at the affected facility for the month (*N*):

$$N = G$$

In determining compliance for each green tire spraying operation, the permittee shall include only those tires defined under 40 CFR 60.541(a) when determining To. (9VAC5-80-110 and 40 CFR 60.543(d) and (m))

Recordkeeping

70. **Process Equipment Requirements: Records – Division 500 (5-CP, 5-GTS & 5-PTP)** - The permittee shall maintain records of emission data and operating parameters as necessary to demonstrate compliance with this permit. The content and format of such records shall be arranged with the Blue Ridge Regional Office. These records shall include, but are not limited to:

a. Monthly and annual production of rubber (in pounds) through the curing presses (5-CP). Annual production shall be calculated monthly as the sum of each consecutive 12-month period.

b. Monthly and annual consumption of green tire spray (in gallons). Annual consumption shall be calculated monthly as the sum of each consecutive 12-month period.

c. Monthly and annual consumption of PTP (in gallons). Annual consumption shall be calculated monthly as the sum of each consecutive 12-month period.

d. Operating hours for each of the following processes: Green Tire Spraying (5-GTS) and Curing Press (5-CP) operations.

e. Hourly and annual emissions of PM, PM-10 and VOC, as applicable, using emission factors approved by DEQ, to demonstrate compliance with the limits in Conditions 63 and 65. Hourly emissions shall be calculated monthly as a monthly average based on operating hours for the month. Annual emissions shall be calculated monthly as the sum of each consecutive 12-month period.

f. Monthly and annual VOC emissions from precure tire painting (5-PTP). Annual emissions shall be calculated monthly as the sum of each consecutive 12-month period.

g. Current MSDS, CPDS, or other vendor information as approved by the DEQ showing VOC and HAP content for each green tire spray and precure tire paint used.

h. Results of visible emissions monitoring as required by Condition 68.

These records shall be available for inspection by the DEQ and shall be current for the most recent five years.
(9VAC5-80-110, 40 CFR 60.545(f) and Condition 52 of 11/07/2014 Permit Document)

Testing

71. **Process Equipment Requirements: Tests – Division 500 (5-GTS)** – EPA Test Method 24 (40 CFR 60, Appendix A) or formulation data shall be used for the determination of the VOC content of green tire spray materials to determine compliance with Condition 67. In the event of dispute, Method 24 shall be the reference method. For Method 24, the green tire spray sample shall be a 1-liter sample collected in a 1-liter container at a point where the sample will be representative of the material as applied in the affected facility.
(9VAC5-80-110 and 40 CFR 60.547(a) (1))

Reporting

72. **Process Equipment Requirements: Reports – Division 500 (5-GTS)** – If the green tire spraying operation uses only water-based sprays (inside and/or outside) containing less than 1.0 percent, by weight, of VOC, the permittee is not required to conduct a monthly performance test as described in 40 CFR 60.543(d). In lieu of conducting a monthly performance test, the permittee shall submit annually to DEQ, for each green tire spraying operation, formulation data or the results of Method 24 analysis to verify the VOC content of each green tire spray material, provided the spraying formulation has not changed during the previous 12 months. If the spray material formulation changes before the end of the 12-month reporting period, 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 of the change.
(9VAC5-80-110, 40 CFR 60.543(b) (4) and 40 CFR 60.546(j))

73. **Process Equipment Requirements: Reports – Division 500 (5-GTS)** - Once every six months, the permittee shall report to DEQ, as applicable, each monthly average VOC

emission rate that exceeds the per-tire VOC emission limit per tire specified in Condition 67.
(9VAC5-80-110 and 40 CFR 60.546(f))

Process Equipment Requirements: Division 600 – Optimizing & Finishing (6-SWB & 6-TUO)

Limitations

74. **Process Equipment Requirements: Limitations – Division 600 (6-SWB & 6-TUO)** - Particulate emissions from the Tire Uniformity Optimizers and Sidewall Buffers shall be controlled by baghouses or equivalent. Each baghouse shall be provided with adequate access for inspection and equipped with a device to continuously measure the differential pressure drop across the baghouse. The device shall be installed in an accessible location and shall be maintained by the permittee such that it is in proper working order at all times.
(9VAC5-80-110 and Condition 4 of 11/07/2014 Permit Document)

75. **Process Equipment Requirements: Limitations – Division 600 (6-TUO)** - The Tire Uniformity Optimizers shall grind no more than 900,000 tires per year, calculated monthly as the sum of each consecutive 12-month period. Compliance for the consecutive 12-month period shall be demonstrated monthly by adding the total for the most recently completed calendar month to the individual monthly totals for the preceding 11 months.
(9VAC5-80-110 and Condition 20 of 11/07/2014 Permit Document)

76. **Process Equipment Requirements: Limitations – Division 600 (6-SWB)** - The Sidewall Buffer operation shall grind no more than 2,700,000 tires per year, calculated monthly as the sum of each consecutive 12-month period. Compliance for the consecutive 12-month period shall be demonstrated monthly by adding the total for the most recently completed calendar month to the individual monthly totals for the preceding 11 months.
(9VAC5-80-110 and Condition 21 of 11/07/2014 Permit Document)

77. **Process Equipment Requirements: Limitations - Division 600 (6-SWB)** - Total emissions from the operation of the Sidewall Buffing operation shall not exceed the limits specified below.

Particulate Matter	0.35 lbs/hr*	1.37 tons/yr*
Volatile Organic Compounds	0.25 lbs/hr	1.00 tons/yr

* Total PM emissions include controlled emissions (baghouse) of 0.2014 lb/hr and 0.57 tons/yr

These emissions are derived from the estimated overall emissions contribution from the operating limits. Exceedance of the operating limits shall be considered credible evidence

of the exceedance of emission limits. Compliance with these emission limits may be determined as stated in Conditions 74 and 76.
(9VAC5-80-110 and Condition 40 of 11/07/2014 Permit Document)

78. **Process Equipment Requirements: Limitations - Division 600 (6-TUO)** - Emissions from the operation of the Tire Uniformity Optimizer operation shall not exceed the limits specified below.

Particulate Matter	0.07 lbs/hr	0.29 tons/yr

These emissions are derived from the estimated overall emissions contribution from the operating limits. Exceedance of the operating limits shall be considered credible evidence of the exceedance of emission limits. Compliance with these emission limits may be determined as stated in Conditions 74 and 75.
(9VAC5-80-110 and Condition 41 of 11/07/2014 Permit Document)

79. **Process Equipment Requirements: Limitations – Division 600 (6-SWB & 6-TUO)** - Visible emissions from the baghouses and bin vents shall not exceed three percent opacity as determined by EPA Test Method 9 (40 CFR 60, Appendix A).
(9VAC5-80-110 and Condition 48 of 11/07/2014 Permit Document)

Monitoring

80. **Process Equipment Requirements: Monitoring – Division 600 (6-SWB & 6-TUO)** - The ductwork and baghouses shall be inspected from the outside each week for leaks, while the process equipment is operating. Pressure drop on the baghouses shall be monitored continuously and recorded daily. Any necessary maintenance shall be done in a timely fashion.
(9VAC5-80-110 and Condition 9 of 11/07/2014 Permit Document)

81. **Process Equipment Requirements: Monitoring – Division 600 (6-SWB & 6-TUO)** - The permittee shall observe the exhaust stacks of each baghouse and each bin vent filter over a two-minute period at least once per day while the processes are operating to check for the presence of visible emissions, other than condensed water vapor. If visible emissions are observed during the daily check or at any time, the permittee shall:

    a. Take timely corrective action such that the process(es) resumes normal operation with no visible emissions from the exhaust stack or bin vent; or

    b. Conduct a visible emissions evaluation (VEE) in accordance with EPA Test Method 9 (40 CFR 60, Appendix A) to determine the percent opacity from the baghouse exhaust stack(s) or bin vent filters. The VEE shall be conducted for a minimum of six minutes. If any of the observations exceed three percent opacity, the VEE shall be conducted for a total of 60 minutes. If compliance with Condition 79 is not demonstrated by the VEE, timely corrective action shall be taken such that the process(es) resumes operation with visible emissions of three percent or less.

The permittee shall record the following in a visible emissions observation log: date and time of each observation, name of the observer, whether or not there were visible emissions, any VEE recordings and any necessary corrective action. The fact that the process equipment served by a bin vent or baghouse was not operated shall be noted in the log book, if applicable.
(9VAC5-80-110 E & K and Condition 50 of 11/07/2014 Permit Document)

Recordkeeping

82. **Process Equipment Requirements: Records – Division 600 (6-SWB & 6-TUO)** - The permittee shall maintain records of emissions data and operating parameters as necessary to demonstrate compliance with this permit. The content and format of such records shall be arranged with the Blue Ridge Regional Office. These records shall include, but are not limited to:

    a. Monthly and annual throughput of tires to each Division 600 process (6-SWB and 6-TUO). Annual production for each shall be calculated monthly as the sum of each consecutive 12-month period.

    b. Operating hours for each Division 600 unit (6-SWB and 6-TUO).

    c. Hourly and annual emissions of PM and VOC, as applicable, using emission factors approved by DEQ, to demonstrate compliance with the limits in Conditions 77 and 78. Hourly emissions shall be calculated monthly as a monthly average based on operating hours for the month. Annual emissions shall be calculated monthly as the sum of each consecutive 12-month period.

    d. MSDS, CPDS, or other vendor information as approved by the DEQ showing VOC and HAP content for each raw material used.

    e. Operation and control device monitoring records for the baghouses or equivalent control as required in Condition 74 and maintenance records for the baghouses or equivalent control and ductwork. The records shall include diagrams which show the specific location(s) of filter media which have failed since the last overall replacement of filter media.

    f. Visible emissions observations and any corrective action(s) taken, as required in Condition 81.

    g. All performance test results and documentation.

    These records shall be available for inspection by the DEQ and shall be current for the most recent five years.
    (9VAC5-80-110 and Condition 52 of 11/07/2014 Permit Document)

Facility-Wide Requirements

Limitations

83. **Facility-Wide Requirements: Limitations -** Manufacturing processes shall use only cements and solvents containing no Hazardous Air Pollutants as listed in §112(b) (as revised by 40 CFR 63.60) of the federal Clean Air Act.
(9VAC5-80-110 and Condition 7 of 11/07/2014 Permit Document)

84. **Facility-Wide Requirements: Limitations -** At all times the disposal of volatile organic compounds shall be accomplished by taking measures, to the extent practicable, consistent with air pollution control practices for minimizing emissions. Volatile organic compounds shall not be intentionally spilled, stored in open containers, or handled in any other manner that would result in evaporation beyond that consistent with air pollution practices for minimizing emissions.
(9VAC5-80-110 and Condition 8 of 11/07/2014 Permit Document)

85. **Facility-Wide Requirements: Limitations -** Total emissions from the tire manufacturing facility shall not exceed the limits specified below.

Volatile Organic Compounds (excluding VOC emissions from silane use)	126.99 tons/yr
Individual HAP	9 tons/yr
Combined HAPs	24 tons/yr

(9VAC5-80-110 and Condition 45 of 11/07/2014 Permit Document)

Recordkeeping

86. **Facility-Wide Requirements: Records -** The permittee shall maintain records of emissions data and operating parameters as necessary to demonstrate compliance with this permit. The content and format of such records shall be arranged with the Blue Ridge Regional Office. These records shall include, but are not limited to:

    a. Monthly and annual VOC emissions calculated monthly as the sum of each consecutive 12-month period to demonstrate compliance with the limit in Condition 85.

    b. Monthly and annual HAPs emissions of each HAP individually and of total HAPs, each calculated monthly as the sum of each consecutive 12-month period to demonstrate compliance with the limit in Condition 85.

These records shall be available for inspection by the DEQ and shall be current for the most recent five years.
(9VAC5-80-110 and Condition 52 of 11/07/2014 Permit Document)

Testing

87. **Facility-Wide Requirements: Testing** - The permitted facility shall be designed and constructed to allow emissions testing using appropriate methods upon reasonable notice at any time. Sampling ports shall be provided when requested and safe sampling platforms and access shall be provided.
(9VAC5-80-110 and Condition 10 of 11/07/2014 Permit Document)

88. **Facility-Wide Requirements: Testing** - Upon request by the DEQ, the permittee shall conduct performance tests to demonstrate compliance with the emissions limits contained in this permit. The details of the tests shall be arranged with the Blue Ridge Regional Office.
(9VAC5-80-110 and Condition 49 of 11/07/2014 Permit Document)

89. **Facility-Wide Requirements: Testing -** Upon request by the DEQ, the permittee shall conduct visible emissions evaluations to demonstrate compliance with the visible emissions limits contained in this permit. The details of the tests shall be arranged with the Blue Ridge Regional Office.
(9VAC5-80-110 and Condition 51 of 11/07/2014 Permit Document)

90. **Facility-Wide Requirements: Testing** - If testing is conducted in addition to the monitoring specified in this permit, the permittee shall use the appropriate method(s) in accordance with procedures approved by DEQ.
(9VAC5-80-110)

Insignificant Emission Units

91. **Insignificant Emission Units** - The following emissions units at the facility are identified in the application as insignificant emissions units under 9VAC5-80-720:

Emission Unit No.	Emission Unit Description	Citation	Pollutant(s) Emitted (9VAC5-80-720B)	Rated Capacity (9VAC5-80-720C)
3-BEC/T	Belt Edge Cushion / Belt Edge Tape	720B	VOC	--
3-WIND	Bead Winders	720B	VOC	--
3-TIP	Bead Tippers	720B	VOC	--

These emissions units are presumed to be in compliance with all requirements of the federal Clean Air Act as may apply. Based on this presumption, no monitoring, recordkeeping, or reporting shall be required for these emissions units in accordance with 9VAC5-80-110. (9VAC5-80-110)

Permit Shield & Inapplicable Requirements

92. **Permit Shield & Inapplicable Requirements** - Compliance with the provisions of this permit shall be deemed compliance with all applicable requirements in effect as of the permit issuance date as identified in this permit. This permit shield covers only those applicable requirements covered by terms and conditions in this permit and the following requirements which have been specifically identified as being not applicable to this permitted facility:

Citation	Title of Citation	Description of Applicability
40 CFR 63 Subpart XXXX	*National Emissions Standards for Hazardous Air Pollutants for Rubber Tire Manufacturing*	Applies to rubber tire manufacturing at major HAP sources; Yokohama's State Operating Permit limits HAPs to below major-source levels.
40 CFR 63 Subpart DDDDD	*National Emissions Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial and Institutional Boilers and Process Heaters*	Applies to boilers at major HAP sources; Yokohama's State Operating Permit limits HAPs to below major-source levels.

Nothing in this permit shield shall alter the provisions of §303 of the federal Clean Air Act, including the authority of the Administrator under that section, the liability of the owner for any violation of applicable requirements prior to or at the time of permit issuance, or the ability to obtain information by (i) the Administrator pursuant to §114 of the federal Clean Air Act, (ii) the Board pursuant to §10.1-1314 or §10.1-1315 of the Virginia Air Pollution Control Law or (iii) the Department pursuant to §10.1-1307.3 of the Virginia Air Pollution Control Law.
(9VAC5-80-110 and 9VAC5-80-140)

General Conditions

93. **General Conditions - Federal Enforceability -** All terms and conditions in this permit are enforceable by the Administrator and citizens under the federal Clean Air Act, except those that have been designated as only state-enforceable.
(9VAC5-80-110)

94. **General Conditions - Permit Expiration**

a. This permit has a fixed term of five years. The expiration date shall be the date five years from the date of issuance. Unless the owner submits a timely and complete application for renewal to the Department consistent with the requirements of 9VAC5-80-80, the right of the facility to operate shall be terminated upon permit expiration.

b. The owner shall submit an application for renewal at least six months but no earlier than eighteen months prior to the date of permit expiration.

c. If an applicant submits a timely and complete application for an initial permit or renewal under 9VAC5-80-80 F, the failure of the source to have a permit or the operation of the source without a permit shall not be a violation of Article 1, Part II of 9VAC5 Chapter 80, until the Board takes final action on the application under 9VAC5-80-150.

d. No source shall operate after the time that it is required to submit a timely and complete application under subsections C and D of 9VAC5-80-80 for a renewal permit, except in compliance with a permit issued under Article 1, Part II of 9VAC5 Chapter 80.

e. If an applicant submits a timely and complete application under section 9VAC5-80-80 for a permit renewal but the Board fails to issue or deny the renewal permit before the end of the term of the previous permit, (i) the previous permit shall not expire until the renewal permit has been issued or denied and (ii) all the terms and conditions of the previous permit, including any permit shield granted pursuant to 9VAC5-80-140, shall remain in effect from the date the application is determined to be complete until the renewal permit is issued or denied.

f. The protection under subsections F 1 and F 5 (ii) of section 9VAC5-80-80 F shall cease to apply if, subsequent to the completeness determination made pursuant section 9VAC5-80-80 D, the applicant fails to submit by the deadline specified in writing by the Board any additional information identified as being needed to process the application.

(9VAC5-80-80, 9VAC5-80-110 and 9VAC5-80-170)

95. **General Conditions -Recordkeeping and Reporting** - All records of monitoring information maintained to demonstrate compliance with the terms and conditions of this permit shall contain, where applicable, the following:

a. The date, place as defined in the permit, and time of sampling or measurements;

b. The date(s) analyses were performed;

c. The company or entity that performed the analyses;

d. The analytical techniques or methods used;

e. The results of such analyses; and

f. The operating conditions existing at the time of sampling or measurement.

(9VAC5-80-110)

96. **General Conditions -Recordkeeping and Reporting** - Records of all monitoring data and support information shall be retained for at least five years from the date of the monitoring sample, measurement, report, or application. Support information includes all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by the permit.
(9VAC5-80-110)

97. **General Conditions -Recordkeeping and Reporting** - The permittee shall submit the results of monitoring contained in any applicable requirement to DEQ no later than March 1 and September 1 of each calendar year. This report must be signed by a responsible official, consistent with 9VAC5-80-80 G, and shall include:

a. The time period included in the report. The time periods to be addressed are January 1 to June 30 and July 1 to December 31; and

b. All deviations from permit requirements. For purpose of this permit, deviations include, but are not limited to:

i. Exceedances of emissions limitations or operational restrictions;

ii. Excursions from control device operating parameter requirements, as documented by continuous emission monitoring, periodic monitoring, or Compliance Assurance Monitoring (CAM), which indicate an exceedance of emission limitations or operational restrictions; or,

iii. Failure to meet monitoring, recordkeeping, or reporting requirements contained in this permit.

c. If there were no deviations from permit conditions during the time period, the permittee shall include a statement in the report that "no deviations from permit requirements occurred during this semiannual reporting period."

(9VAC5-80-110)

98. **General Conditions - Annual Compliance Certification** - Exclusive of any reporting required to assure compliance with the terms and conditions of this permit or as part of a schedule of compliance contained in this permit, the permittee shall submit to EPA and DEQ no later than March 1 each calendar year a certification of compliance with all terms

and conditions of this permit including emission limitation standards or work practices for the period ending December 31. The compliance certification shall comply with such additional requirements that may be specified pursuant to §114(a)(3) and §504(b) of the federal Clean Air Act. The permittee shall maintain a copy of the certification for five (5) years after submittal of the certification. This certification shall be signed by a responsible official, consistent with 9VAC5-80-80 G, and shall include:

a. The time period included in the certification. The time period to be addressed is January 1 to December 31;

b. The identification of each term or condition of the permit that is the basis of the certification;

c. The compliance status;

d. Whether compliance was continuous or intermittent, and if not continuous, documentation of each incident of non-compliance;

e. Consistent with subsection 9VAC5-80-110, the method or methods used for determining the compliance status of the source at the time of certification and over the reporting period;

f. Such other facts as the permit may require to determine the compliance status of the source; and

g. One copy of the annual compliance certification shall be submitted to EPA in electronic format only. The certification document should be sent to the following electronic mailing address:

R3_APD_Permits@epa.gov

(9VAC5-80-110)

99. **General Conditions - Permit Deviation Reporting** - The permittee shall notify the Blue Ridge Regional Office within four daytime business hours after discovery of any deviations from permit requirements which may cause excess emissions for more than one hour, including those attributable to upset conditions as may be defined in this permit. In addition, within 14 days of the discovery, the permittee shall provide a written statement explaining the problem, any corrective actions or preventative measures taken, and the estimated duration of the permit deviation. The occurrence should also be reported in the next semiannual compliance monitoring report pursuant to Condition 97 of this permit. (9VAC5-80-110 F. 2)

100. **General Conditions - Failure/Malfunction Reporting** - In the event that any affected facility or related air pollution control equipment fails or malfunctions in such a manner that may cause excess emissions for more than one hour, the owner shall no later than four

daytime business hours after the malfunction is discovered, notify the Blue Ridge Regional Office such failure or malfunction and within 14 days provide a written statement giving all pertinent facts, including the estimated duration of the breakdown. When the condition causing the failure or malfunction has been corrected and the equipment is again in operation, the owner shall notify the Blue Ridge Regional Office.
(9VAC5-80-110 and 9VAC5-20-180)

101. **General Conditions - Failure/Malfunction Reporting** - The emission units that have continuous monitors subject to 9VAC5-40-50 C and 9VAC5-50-50 C are not subject to the 14 day written notification.
(9VAC5-20-180)

102. **General Conditions - Failure/Malfunction Reporting** - Each owner required to install a continuous monitoring system (CMS) or monitoring device subject to 9VAC5-40-41 or 9VAC5-50-410 shall submit a written report of excess emissions (as defined in the applicable subpart in 9VAC5-50-410) and either a monitoring systems performance report or a summary report form, or both, to the board semiannually. All semiannual reports shall be postmarked by the 30th day following the end of each calendar semiannual period (June 30th and January 30th). All reports shall include the following information:

    a. The magnitude of excess emissions computed in accordance with 40 CFR 60.13(h) or 9VAC5-40-41 B.6, any conversion factors used, and the date and time of commencement and completion of each period of excess emissions;

    b. Specific identification of each period of excess emissions that occurs during startups, shutdowns, and malfunctions of the source. The nature and cause of any malfunction (if known), the corrective action taken or preventative measures adopted;

    c. The date and time identifying each period during which the continuous monitoring system was inoperative except for zero and span checks and the nature of the system repairs or adjustments; and

    d. When no excess emissions have occurred or the continuous monitoring systems have not been inoperative, repaired or adjusted, such information shall be stated in the report.

    All malfunctions of emission units not subject to 9VAC5-40-50 C and 9VAC5-50-50 C require written reports within 14 days of the discovery of the malfunction.
    (9VAC5-80-110 and 9VAC5-20-180 C)

103. **General Conditions - Severability** - The terms of this permit are severable. If any condition, requirement or portion of the permit is held invalid or inapplicable under any circumstance, such invalidity or inapplicability shall not affect or impair the remaining conditions, requirements, or portions of the permit.
(9VAC5-80-110)

104. **General Conditions - Duty to Comply** - The permittee shall comply with all terms and conditions of this permit. Any permit noncompliance constitutes a violation of the federal Clean Air Act or the Virginia Air Pollution Control Law or both and is ground for enforcement action; for permit termination, revocation and reissuance, or modification; or, for denial of a permit renewal application.
(9VAC5-80-110)

105. **General Conditions - Need to Halt or Reduce Activity not a Defense** - 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.
(9VAC5-80-110)

106. **General Conditions - Permit Modification** - A physical change in, or change in the method of operation of, this stationary source may be subject to permitting under State Regulations 9VAC5-80-50, 9VAC5-80-1100, 9VAC5-80-1605, or 9VAC5-80-2000 and may require a permit modification and/or revisions except as may be authorized in any approved alternative operating scenarios.
(9VAC80-110, 9VAC5-80-190, and 9VAC5-80-260)

107. **General Conditions - Property Rights** - The permit does not convey any property rights of any sort, or any exclusive privilege.
(9VAC5-80-110)

108. **General Conditions - Duty to Submit Information** - The permittee shall furnish to the Board, within a reasonable time, any information that the Board 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. Upon request, the permittee shall also furnish to the Board copies of records required to be kept by the permit and, for information claimed to be confidential, the permittee shall furnish such records to the Board along with a claim of confidentiality.
(9VAC5-80-110)

109. **General Conditions - Duty to Submit Information** - Any document (including reports) required in a permit condition to be submitted to the Board shall contain a certification by a responsible official that meets the requirements of 9VAC5-80-80 G.
(9VAC5-80-110)

110. **General Conditions - Duty to Pay Permit Fees** - The owner of any source for which a permit was issued under 9VAC5-80-50 through 9VAC5-80-300 shall pay annual emissions fees, as applicable, consistent with the requirements of 9VAC5-80-310 through 9VAC5-80-350 and annual maintenance fees, as applicable, consistent with the requirements of 9VAC5-80-2310 through 9VAC5-80-2350.
(9VAC5-80-110, 9VAC5-80-310 et seq., and 9VAC5-80-2310 et seq.)

111. **General Conditions - Fugitive Dust Emission Standards** - During the operation of a stationary source or any other building, structure, facility, or installation, no owner or other person shall cause or permit any materials or property to be handled, transported, stored, used, constructed, altered, repaired, or demolished without taking reasonable precautions to prevent particulate matter from becoming airborne. Such reasonable precautions may include, but are not limited to, the following:

    a. Use, where possible, of water or chemicals for control of dust in the demolition of existing buildings or structures, construction operations, the grading of roads, or the clearing of land;

    b. Application of asphalt, water, or suitable chemicals on dirt roads, materials stockpiles, and other surfaces which may create airborne dust; the paving of roadways and the maintaining of them in a clean condition;

    c. Installation and use of hoods, fans, and fabric filters to enclose and vent the handling of dusty material. Adequate containment methods shall be employed during sandblasting or similar operations;

    d. Open equipment for conveying or transporting material likely to create objectionable air pollution when airborne shall be covered or treated in an equally effective manner at all times when in motion; and,

    e. The prompt removal of spilled or tracked dirt or other materials from paved streets and of dried sediments resulting from soil erosion.

    (9VAC5-80-110 and 9VAC5-50-90)

112. **General Conditions - Startup, Shutdown, and Malfunction** - At all times, including periods of startup, shutdown, and soot blowing, and malfunction, owners shall, to the extent practicable, maintain and operate any affected facility including associated air pollution control equipment in a manner consistent with air pollution control practices for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Board, which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source.
    (9VAC5-80-110 and 9VAC5-50-20 E)

113. **General Conditions - Alternative Operating Scenarios** - Contemporaneously with making a change between reasonably anticipated operating scenarios identified in this permit, the permittee shall record in a log at the permitted facility a record of the scenario under which it is operating. The permit shield described in 9VAC5-80-140 shall extend to all terms and conditions under each such operating scenario. The terms and conditions of each such alternative scenario shall meet all applicable requirements including the requirements of 9VAC5 Chapter 80, Article 1.
    (9VAC5-80-110)

114. **General Conditions - Inspection and Entry Requirements** - The permittee shall allow DEQ, upon presentation of credentials and other documents as may be required by law, to perform the following:

    a. Enter upon the premises where the source is located or emissions-related activity is conducted, or where records must be kept under the terms and conditions of the permit.

    b. Have access to and copy, at reasonable times, any records that must be kept under the terms and conditions of the permit.

    c. Inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit.

    d. Sample or monitor at reasonable times' substances or parameters for the purpose of assuring compliance with the permit or applicable requirements.

    (9VAC5-80-110)

115. **General Conditions - Reopening for Cause** - The permit shall be reopened by the Board if additional federal requirements become applicable to a major source with a remaining permit term of three years or more. Such reopening shall be completed no later than 18 months after promulgation of the applicable requirement. No such reopening is required if the effective date of the requirement is later than the date on which the permit is due to expire, unless the original permit or any of its terms and conditions has been extended pursuant to 9VAC5-80-80 F. The conditions for reopening a permit are as follows:
    a. The permit shall be reopened if the Board or the administrator determines 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.

    b. The permit shall be reopened if the administrator or the Board determines that the permit must be revised or revoked to assure compliance with the applicable requirements.

    c. The permit shall not be reopened by the Board if additional applicable state requirements become applicable to a major source prior to the expiration date established under 9VAC5-80-110 D.

    (9VAC5-80-110)

116. **General Conditions - Permit Availability** - Within five days after receipt of the issued permit, the permittee shall maintain the permit on the premises for which the permit has been issued and shall make the permit immediately available to DEQ upon request. (9VAC5-80-110 and 9VAC5-80-150)

117. **General Conditions - Transfer of Permits**

a. No person shall transfer a permit from one location to another, unless authorized under 9VAC5-80-130, or from one piece of equipment to another.

b. In the case of a transfer of ownership of a stationary source, the new owner shall comply with any current permit issued to the previous owner. The new owner shall notify the Board of the change in ownership within 30 days of the transfer and shall comply with the requirements of 9VAC5-80-200.

c. In the case of a name change of a stationary source, the owner shall comply with any current permit issued under the previous source name. The owner shall notify the Board of the change in source name within 30 days of the name change and shall comply with the requirements of 9VAC5-80-200.

(9VAC5-80-110 and 9VAC5-80-160)

118. **General Conditions - Permit Revocation or Termination for Cause** - A permit may be revoked or terminated prior to its expiration date if the owner knowingly makes material misstatements in the permit application or any amendments thereto or if the permittee violates, fails, neglects or refuses to comply with the terms or conditions of the permit, any applicable requirements, or the applicable provisions of 9VAC5 Chapter 80 Article 1. The Board may suspend, under such conditions and for such period of time as the Board may prescribe any permit for any grounds for revocation or termination or for any other violations of these regulations.
(9VAC5-80-110, 9VAC5-80-190 C, and 9VAC5-80-260)

119. **General Conditions - Duty to Supplement or Correct Application** - Any applicant who fails to submit any relevant facts or who has submitted incorrect information in a permit application shall, upon becoming aware of such failure or incorrect submittal, promptly submit such supplementary facts or corrections. An applicant shall also provide additional information as necessary to address any requirements that become applicable to the source after the date a complete application was filed but prior to release of a draft permit.
(9VAC5-80-110 and 9VAC5-80-80 E)

120. **General Conditions - Stratospheric Ozone Protection** - If the permittee handles or emits one or more Class I or II substances subject to a standard promulgated under or established by Title VI (Stratospheric Ozone Protection) of the federal Clean Air Act, the permittee shall comply with all applicable sections of 40 CFR Part 82, Subparts A to F.
(9VAC5-80-110 and 40 CFR Part 82)

121. **General Conditions - Asbestos Requirements** - The permittee shall comply with the requirements of National Emissions Standards for Hazardous Air Pollutants (40 CFR 61) Subpart M, National Emission Standards for Asbestos as it applies to the following:

Standards for Demolition and Renovation (40 CFR 61.145), Standards for Insulating Materials (40 CFR 61.148), and Standards for Waste Disposal (40 CFR 61.150). (9VAC5-60-70 and 9VAC5-80-110)

122. **General Conditions - Accidental Release Prevention** - If the permittee has more, or will have more than a threshold quantity of a regulated substance in a process, as determined by 40 CFR 68.115, the permittee shall comply with the requirements of 40 CFR Part 68. (9VAC5-80-110 and 40 CFR Part 68)

123. **General Conditions - Changes to Permits for Emissions Trading** - No permit revision shall be required under any federally approved economic incentives, marketable permits, emissions trading and other similar programs or processes for changes that are provided for in this permit.
(9VAC5-80-110)

124. **General Conditions - Emissions Trading** - Where the trading of emissions increases and decreases within the permitted facility is to occur within the context of this permit and to the extent that the regulations provide for trading such increases and decreases without a case-by-case approval of each emissions trade:

    a. All terms and conditions required under 9VAC5-80-110, except subsection N, shall be included to determine compliance.

    b. The permit shield described in 9VAC5-80-140 shall extend to all terms and conditions that allow such increases and decreases in emissions.

    c. The owner shall meet all applicable requirements including the requirements of 9VAC5-80-50 through 9VAC5-80-300.

    (9VAC5-80-110)