COMMONWEALTH of VIRGINIA

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PREVENTION OF SIGNIFICANT DETERIORATION PERMIT

STATIONARY SOURCE PERMIT TO MODIFY AND OPERATE
This permit includes designated equipment subject to
National Emission Standards for Hazardous Air Pollutants for Source Categories.

In accordance with Condition 36 of this permit, Section III of this permit supersedes your permits dated January 4, 1980, February 28, 1985, September 16, 1985, December 23, 1985, March 18, 1988 (as amended February 17, 1989), May 3, 1990, December 17, 1993, May 10 1996, September 16, 1999, July 28, 2000, and June 28, 2002.

In compliance with the Federal Clean Air Act and the Commonwealth of Virginia Regulations for the Control and Abatement of Air Pollution,

The Goodyear Tire and Rubber Company
1901 Goodyear Boulevard
Danville, VA 24541
Registration No.: 30106

is authorized to modify and operate

the mixing area of the rubber tire manufacturing facility

located at

1901 Goodyear Boulevard
Danville, Virginia

in accordance with the Conditions of this permit.

Approved on December 3, 2014.

_____
Robert J. Weld
Regional Director, Blue Ridge Regional Office

Permit consists of 24 pages.
Permit Conditions 1 to 65.

INTRODUCTION

This permit is based on the following permit approvals and their respective permit applications:

- The current Article 8 permit approval (as contained in Sections I, II and IV of this permit document) which is based on the permit application dated December 2, 2013, including amendment information dated September 12, 2014 and supplemental information dated October 2, 2014;
- The current Article 6 permit approval (as contained in Sections I, II and IV of this permit document) which is based on the permit application dated December 2, 2013, including amendment information dated September 12, 2014 and supplemental information dated October 2, 2014; and
- The combined PSD and Minor New Source Review permit approval dated September 4, 2002 (as amended in Sections III and IV of this permit document) which is based on permit applications dated February 7, 2000 and March 7, 2000 (including supplemental information dated April 5, April 10, April 25, May 1, May 11, May 23, and June 1, 2000), as amended October 1, 2001 and June 28, 2002 and September 12, 2014 and supplemental information dated October 2, 2014.

Any changes in the permit application specifications or any existing facilities which alter the impact of the facility on air quality may require a permit. Failure to obtain such a permit prior to construction may result in enforcement action. In addition, this facility may be subject to additional applicable requirements not listed in this permit.

Words or terms used in this permit shall have meanings as provided in 9VAC5-10-20 of the State Air Pollution Control Board Regulations for the Control and Abatement of Air Pollution. The regulatory reference or authority for each condition is listed in parentheses () after each condition. The most recent effective date for a term or condition is also listed and is shown in brackets [ ]. When identical conditions on approval for an emission unit or units are combined, the effective date listed in this permit does not alter the prior effective date(s) for any such conditions as issued in a previous permit approval. In accordance with 9VAC5-80-1120F, any condition not marked as state-only enforceable (SOE) is state and federally enforceable.

Annual requirements to fulfill legal obligations to maintain current stationary source emissions data will necessitate a prompt response by the permittee to requests by the DEQ or the Board for information to include, as appropriate: process and production data; changes in control equipment; and operating schedules. Such requests for information from the DEQ will either be in writing or by personal contact.

The availability of information submitted to the DEQ or the Board will be governed by applicable provisions of the Freedom of Information Act, §§ 2.2-3700 through 2.2-3714 of the Code of Virginia, § 10.1-1314 (addressing information provided to the Board) of the Code of Virginia, and 9VAC5-170-60 of the State Air Pollution Control Board Regulations. Information provided to federal officials is subject to appropriate federal law and regulations governing confidentiality of such information.

SECTION I – Phase 1 of Low Rolling Resistance Project

Conditions 1 through 17

Additional Source Wide, General Conditions are contained in Section IV below.

PROCESS REQUIREMENTS – Phase 1

1. **Equipment List** – Equipment at this facility includes:

Equipment to be Constructed or included in Phase 1 of the project:			
Reference No.	**Equipment Description**	**Rated Capacity**	**Federal Requirements**
EU0110	Banbury Mixer 110	370 liter mixer with twin screw roller die discharge	MACT XXXX
RTO1	Regenerative Thermal Oxidizer	15 MMBtu/hr	---

Equipment permitted prior to the date of this permit:			
Reference No.	**Equipment Description**	**Rated Capacity**	**Federal Requirements**
EU003	Banbury Mixer 3	270 liter mixer	MACT XXXX

Specifications included in the permit under this Condition are for informational purposes only and do not form enforceable terms or conditions of the permit. (9VAC5-80-1180 D 3 and 9VAC5-80-1985 E) [December 3, 2014]

2. **Permanent Shutdown** – Banbury Mixer 3 (EU003) shall cease operation no later than the date of the initial start-up of Banbury Mixer 110 (EU0110). Reactivation of EU003 will be considered a physical change to the stationary source. For the purposes of this permit, EU003 includes the mixer and the associated dump sink, airveyor, pelletizer, slurry dip, take-away conveyor, shaker cooler units 1&2 and finished pellet conveyor. (9VAC5-80-1180 and 9VAC5-20-220) [December 3, 2014]

3. **Emission Controls** – VOC emissions from the Banbury Mixer 110 shall be controlled by a Regenerative Thermal Oxidizer (RTO1). The minimum combustion chamber temperature for the RTO1 shall be maintained at 1400^{O}F when the mixer is processing rubber compounds which include either High Temperature Coupling Agent (HTCA) or Low Temperature Coupling Agent (LTCA). Upon DEQ's written acceptance of the initial performance testing of RTO1 that demonstrates compliance with the control efficiency as required by condition 4, the permittee may request that the minimum combustion chamber temperature be adjusted to that demonstrated during the performance testing as required by condition 16.

   For the purposes of this section (i.e., Section I) of this permit, *Coupling Agent* means a liquid or solid chemical additive mixed into a rubber compound to ensure that silica in the given formulation becomes an integral part of the rubber matrix on a molecular level; *High Temperature* means a rubber compound recipe temperature of 300^{O}F or greater for any single "pass" of that rubber compound through the mixer; *Low Temperature* means a rubber

compound recipe temperature of 250^{O}F or greater but less than 300^{O}F for any single "pass" of that rubber compound through the mixer; and *Sulfur Donor* means Low Temperature Coupling Agent additives when mixed at compound recipe temperatures of less than 250^{O}F. RTO1 shall be provided with adequate access for inspection.
(9VAC5-80-1985 E, 9VAC5-50-280, and 9VAC5-80-1705) [December 3, 2014]

4. **Control Efficiency** - RTO1 shall maintain a control efficiency for VOC from Banbury Mixer 110 of no less than 98 percent, to be demonstrated by stack test.
(9VAC5-80-1985, 9VAC5-50-280, and 9VAC5-80-1705) [December 3, 2014]

5. **Emission Controls** – Particulate emissions from the Banbury Mixer 110 shall be controlled by fabric filter. The fabric filter shall be provided with adequate access for inspection and shall be in operation when the Banbury Mixer 110 is operating.
(9VAC5-80-1180 and 9VAC5-50-260) [December 3, 2014]

6. **Monitoring Devices** – RTO1 shall be equipped with a device to continuously measure and record the temperature in the combustion chamber. For the purposes of this condition, "continuously" shall mean that whenever the RTO is in operation, the monitoring system shall be monitoring except during periods of monitoring system breakdowns, repairs, calibration checks, and zero and span adjustments, and the monitoring system shall be capable of completing at least one cycle of operation (i.e., measuring and recording) every 15 minutes. Each monitoring device shall be installed, maintained, calibrated and operated in accordance with approved procedures which shall include, as a minimum, the manufacturer's written requirements or recommendations. Each monitoring device shall be provided with adequate access for inspection and shall be in operation when the RTO is operating.
(9VAC5-80-1985 E) [December 3, 2014]

7. **Monitoring Devices** - The fabric filter shall be equipped with a device to continuously measure the differential pressure drop across the fabric filter. For the purposes of this condition, "continuously" shall mean that whenever the Banbury Mixer 110 is in operation, the monitoring system shall be monitoring except during periods of monitoring system breakdowns, repairs, calibration checks, and zero and span adjustments, and the monitoring system shall be capable of completing at least one cycle of operation (i.e., measuring) every 15 minutes. When the unit is operating, the measured differential pressure shall be observed and recorded in a log not less than once each day. The monitoring device shall be installed, maintained, calibrated and operated in accordance with approved procedures which shall include, as a minimum, the manufacturer's written requirements or recommendations. Each monitoring device shall be provided with adequate access for inspection and shall be in operation when Banbury Mixer 110 is operating.
(9VAC5-80-1180 D) [December 3, 2014]

OPERATING LIMITATIONS – Phase 1

8. **Throughput** - The throughput of rubber compounds through Banbury Mixer 110 shall not exceed 150 x 10^6 pounds 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.
(9VAC5-80-1180 and 9VAC5-80-1985 E) [December 3, 2014]

9. **Fuel** - The approved fuel for RTO1 is natural gas. A change in the fuel may require a permit to modify and operate.
(9VAC5-80-1180 and 9VAC5-80-1985 E) [December 3, 2014]

EMISSION LIMITS – Phase 1

10. **Process Emission Limits** - Emissions from the operation of Banbury Mixer 110 shall not exceed the limits specified below:

Particulate Matter (PM)	0.01 gr/dscf	---

(9VAC5-80-1180 and 9VAC5-50-260) [December 3, 2014]

11. **Process Emission Limits** - Emissions from the operation of Banbury Mixer 110 and RTO1 shall not exceed the limits specified below:

PM10	0.19 lbs/hr	0.83 tons/yr
PM2.5	0.19 lbs/hr	0.83 tons/yr

These emissions are derived from the estimated overall emission 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 5, and 15.
(9VAC5-80-1180 and 9VAC5-50-260) [December 3, 2014]

12. **Process Emission Limits** - Emissions from the operation of Banbury Mixer 110 and RTO1, as measured at the RTO exit, shall not exceed the limits specified below:

Volatile Organic Compounds (including ethanol)	2.50 lb/ton $_{\text{RUBBER}}$	93.7 tons/yr
Ethanol	---	92.6 tons/yr

These emissions are derived from the estimated overall emission 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 3 and 15.
(9VAC5-80-1985 E, 9VAC5-50-280, and 9VAC5-80-1705) [December 3, 2014]

13. **Plantwide Emission Limits Related to Operation of Banbury Mixer 110 –** Excluding the ethanol emissions as limited by Condition 12, ethanol emissions throughout the facility from use of coupling agents, including sulfur donors, in Banbury Mixer 110 shall not exceed the limit specified below:

Ethanol	---	375.1 tons/yr

These emissions are derived from the estimated overall emission 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 15.
(9VAC5-80-1985 E) [December 3, 2014]

14. **Visible Emission Limit** - Visible emissions from RTO1 shall not exceed 10 percent opacity as determined by the EPA Method 9 (reference 40 CFR 60, Appendix A).
(9VAC5-80-1180 and 9VAC5-50-260) [December 3, 2014]

RECORDS – Phase 1

15. **On Site Records** - 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. The total annual throughput of rubber compounds through Banbury Mixer 110, 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.

    b. For Banbury Mixer 110, the annual consumption of each coupling agent, in units of $lb_{COUPLING\ AGENT}$ / yr, and sulfur donor, in units of lb $_{SULFUR\ DONOR}$ / yr, each 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.

    c. For Banbury Mixer 110, the annual throughput, calculated monthly as the sum of each consecutive 12-month period, and manufacturing specification sheet for each rubber compound containing coupling agent or sulfur donor. Specification sheets shall include the identity and quantity of each coupling agent, in units of lb $_{COUPLING\ AGENT}$ / lb $_{RUBBER}$, the identity and quantity of each sulfur donor, in units of lb $_{SULFUR\ DONOR}$ / lb $_{RUBBER}$, and the maximum mixing temperature for each pass for the compound.

    d. For each coupling agent or sulfur donor used in Banbury Mixer 110, the Material Safety Data Sheet (MSDS) or other vendor information showing the composition, and

supporting calculations needed to derive the emission rate of ethanol in units of $lb_{ETHANOL}$ / $lb_{COUPLING\ AGENT}$ or $lb_{ETHANOL}$ / $lb_{SULFUR\ DONOR}$.

e. Annual ethanol emissions from Banbury Mixer 110, calculated monthly as the sum of each consecutive 12-month period calculations to demonstrate compliance with the ethanol emission limitations in Conditions 12 and 13. 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

f. For Banbury Mixer 110, annual PM10 and PM2.5 emissions calculations to verify compliance with the emission limitations in Condition 11, 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

g. For Banbury Mixer 110, annual VOC emissions calculations to verify compliance with the VOC emission limitations in Condition 12, 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

h. Operation and control device monitoring records for RTO1 as required in Condition 6.

i. Operation and control device monitoring records for fabric filter as required in Condition 7.

j. Results of all stack tests and performance evaluations.

k. Records sufficient to demonstrate whether construction within Phase 1 is continuous.

These records shall be available for inspection by the DEQ and shall be current for the most recent five years.
(9VAC5-80-1985 E, 9VAC5-80-1180 and 9VAC5-50-50) [December 3, 2014]

INITIAL COMPLIANCE DETERMINATION – Phase 1

16. **Stack Test -** Initial performance tests shall be conducted for VOC from RTO1 to determine compliance with the control efficiency requirements contained in Condition 4. The tests shall be performed, reported and demonstrate compliance within 60 days after achieving the maximum production rate at which Banbury Mixer 110 will be operated but in no event later than 180 days after start-up of Banbury Mixer 110. 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 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.
(9VAC5-50-30 and 9VAC5-80-1675) [December 3, 2014]

INITIAL NOTIFICATION – Phase 1

17. **Initial Notifications** - The permittee shall furnish written notification to the Blue Ridge Regional Office of:

    a. The actual date on which construction of Banbury Mixer 110 commenced within 30 days after such date.

    b. The actual date on which shutdown of Banbury Mixer 3 occurred within 15 days of such date.

    c. The actual date on which start-up of Banbury Mixer 110 occurred within 15 days of such date.

    d. The anticipated date of RTO performance tests postmarked at least 30 days prior to such date.

    (9VAC5-80-1985 E, 9VAC5-80-1180 and 9VAC5-50-50) [December 3, 2014]

Section II – Phase 2 of Low Rolling Resistance Project

Conditions 18 through 35
Additional Source Wide, General Conditions are contained in Section IV below.

PROCESS REQUIREMENTS – Phase 2

18. **Equipment List** – Equipment at this facility includes:

Additional Equipment to be Constructed or included in Phase 2 of the project:			
Reference No.	**Equipment Description**	**Rated Capacity**	**Federal Requirements**
EU0111	Banbury Mixer 111	370 liter mixer with twin screw roller die discharge	MACT XXXX
EU0112	Banbury Mixer 112	370 liter mixer with twin screw roller die discharge	MACT XXXX

Equipment permitted prior to the date of this permit:			
Reference No.	**Equipment Description**	**Rated Capacity**	**Federal Requirements**
EU002	Banbury Mixer 2	270 liter mixer	MACT XXXX

Specifications included in the permit under this Condition are for informational purposes only and do not form enforceable terms or conditions of the permit.
(9VAC5-80-1180 D 3 and 9VAC5-80-1985 E) [December 3, 2014]

19. **Permanent Shutdown** – Banbury Mixer 2 (EU002) shall cease operation no later than the date of the initial start-up of Banbury Mixer 111 (EU0111) or Banbury Mixer 112 (EU0112), whichever occurs earlier. Reactivation of EU002 will be considered a physical change to the stationary source. For the purposes of this permit, EU002 includes the mixer and the

associated dump sink, airveyor, pelletizer, slurry dip, take-away conveyor, shaker cooler units 1&2 and finished pellet conveyor.
(9VAC5-80-1180 and 9VAC5-20-220) [December 3, 2014]

20. **Control Technology Review** – The permittee shall submit reviews of the determinations of best available control technologies at the latest reasonable time that occurs no later than 18 months prior to commencement construction of phase 2 of this project.
(9VAC5-80-1180 C, 9VAC5-80-260 D, 9VAC5-50-280, and 9VAC5-80-1705) [December 3, 2014]

21. **Emission Controls** – VOC emissions from each Banbury Mixer (EU0110, EU0111 and EU0112) shall be controlled by a Regenerative Thermal Oxidizer (RTO1). Upon DEQ's written acceptance of the performance testing of RTO1 required by Condition 34, the minimum combustion chamber temperature for the RTO1 shall be maintained at or above the value established during that performance test when any mixer is processing rubber compounds which include either High Temperature Coupling Agent (HTCA) or Low Temperature Coupling Agent (LTCA).

    For the purposes of this section (i.e., Section II) of this permit, *Coupling Agent, High Temperature, Low Temperature,* and *Sulfur Donor* have the same meanings specified in Section I (i.e., Condition 3).

    RTO1 shall be provided with adequate access for inspection.
    (9VAC5-80-1985 E, 9VAC5-50-280, and 9VAC5-80-1705) [December 3, 2014]

22. **Control Efficiency** - RTO1 shall maintain a control efficiency for VOC from Banbury Mixers 110, 111, and 112 of no less than 98 percent to be demonstrated by stack test. The specified control efficiency applies during any combination of simultaneous or individual operation of the three mixers.
    (9VAC5-80-1985 E and 9VAC5-50-280) [December 3, 2014]

23. **Emission Controls** – Particulate emissions from each Banbury Mixer (EU0110, EU0111 and EU0112) shall be controlled by fabric filter. Each fabric filter shall be provided with adequate access for inspection and shall be in operation when the respective mixer is operating.
    (9VAC5-80-1180 and 9VAC5-50-260) [December 3, 2014]

24. **Monitoring Devices** – RTO1: Same as specified in Section I (i.e., Condition 6).

25. **Monitoring Devices** – Each fabric filter shall be equipped with a device to continuously measure the differential pressure drop across the fabric filter. For the purposes of this condition, "continuously" shall mean that whenever the respective mixer (EU0110, EU0111or EU0112) is in operation, the monitoring system shall be monitoring except during periods of monitoring system breakdowns, repairs, calibration checks, and zero and span adjustments, and the monitoring system shall be capable of completing at least one cycle of operation (i.e., measuring) every 15 minutes. When the unit is operating, the measured

differential pressure shall be observed and recorded in a log not less than once each day. Each monitoring device shall be installed, maintained, calibrated and operated in accordance with approved procedures which shall include, as a minimum, the manufacturer's written requirements or recommendations. Each monitoring device shall be provided with adequate access for inspection and shall be in operation when the respective mixer (EU0110, EU0111or EU0112) is operating.
(9VAC5-80-1180 D) [December 3, 2014]

OPERATING LIMITATIONS – Phase 2

26. **Throughput** - The throughput of rubber compounds through each Banbury Mixer (EU0110, EU0111 and EU0112) shall not exceed 150 x 10^6 pounds 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.
(9VAC5-80-1180 and 9VAC5-80-1985 E) [December 3, 2014]

27. **Fuel** - RTO1: Same as specified in Section I (i.e., Condition 9).

EMISSION LIMITS – Phase 2

28. **Process Emission Limits** - Emissions from the operation of each Banbury Mixer (EU0110, EU0111 and EU0112) shall not exceed the limits specified below:

Particulate Matter (PM)	0.01 gr/dscf	---

(9VAC5-80-1180 and 9VAC5-50-260) [December 3, 2014]

29. **Process Emission Limits** - Emissions from the operation of each Banbury Mixer (EU0110, EU0111 and EU0112) and RTO1 shall not exceed the limits specified below:

PM10	0.19 lbs/hr	0.83 tons/yr
PM2.5	0.19 lbs/hr	0.83 tons/yr

These emissions are derived from the estimated overall emission 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 23 and 33.
(9VAC5-80-1180 and 9VAC5-50-260) [December 3, 2014]

30. **Process Emission Limits** - Emissions from the operation of each Banbury Mixer (EU0110, EU0111 and EU0112) and RTO1, as measured at the RTO exit, shall not exceed the limits specified below:

Volatile Organic Compounds (including ethanol)	2.50 lb/ton $_{\text{RUBBER}}$	93.7 tons/yr

Ethanol	---	92.6 tons/yr

These emissions are derived from the estimated overall emission 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 22, and 33.
(9VAC5-80-1985 E and 9VAC5-50-280) [December 3, 2014]

31. **Plantwide Emission Limits Related to Operation of Banbury Mixer 110, 111 & 112 –** Excluding the ethanol emissions as limited by Condition 30, ethanol emissions throughout the facility from use of coupling agents, including sulfur donors, in each Banbury Mixer 110, 111, and 112 shall not exceed the limit specified below:

Ethanol	---	375.1 tons/yr/mixer

These emissions are derived from the estimated overall emission 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 33.
(9VAC5-80-1985 E) [December 3, 2014]

32. **Visible Emission Limit** - RTO1: Same as specified in Section I (i.e., Condition 14)

RECORDS – Phase 2

33. **On Site Records** - 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. The total annual throughput of rubber compounds through each Banbury Mixer (EU0110, EU0111 and EU0112) 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.

    b. For each Banbury Mixer (EU0110, EU0111 and EU0112), the annual consumption of each coupling agent, in units of $lb_{COUPLING\ AGENT}$ / yr, and sulfur donor, in units of $lb_{SULFUR\ DONOR}$ / yr, each 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.

    c. For each Banbury Mixer (EU0110, EU0111 and EU0112), the annual throughput, calculated monthly as the sum of each consecutive 12-month period, and manufacturing specification sheet for each rubber compound containing coupling agent or sulfur donor. Specification sheets shall include the identity and quantity of each coupling agent, in

units of lb $_{\text{COUPLING AGENT}}$ / lb $_{\text{RUBBER}}$, the identity and quantity of each sulfur donor, in units of lb $_{\text{SULFUR DONOR}}$ / lb $_{\text{RUBBER}}$, and the maximum mixing temperature for each pass for the compound.

d. For each coupling agent or sulfur donor used in Banbury Mixers 110, 111 or 112 (EU0110, EU0111 and EU0112), the Material Safety Data Sheet (MSDS) or other vendor information showing the composition, and supporting calculations needed to derive the emission rate of ethanol in units of lb $_{\text{ETHANOL}}$ / lb $_{\text{COUPLING AGENT}}$ or lb$_{\text{ETHANOL}}$ / lb$_{\text{SULFUR DONOR}}$.

e. For each Banbury Mixer (EU0110, EU0111 and EU0112), annual ethanol emissions, calculated monthly as the sum of each consecutive 12-month period calculations to demonstrate compliance with the ethanol emission limitations in Conditions 30 and 31. 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

f. For each Banbury Mixer (EU0110, EU0111 and EU0112), annual PM10 and PM2.5 emissions calculations to verify compliance with the VOC emission limitations in Condition 29, 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

g. Each Banbury Mixer (EU0110, EU0111 and EU0112), annual VOC emissions calculations to verify compliance with the VOC emission limitations in Condition 30, 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.

h. For RTO1: See Conditions 15h; and for fabric filters: see condition 15i .

i. Results of all stack tests and performance evaluations.

j. Records sufficient to demonstrate whether construction within Phase 2 is continuous.

These records shall be available for inspection by the DEQ and shall be current for the most recent five years.
(9VAC5-80-1985 E, 9VAC5-80-1180 and 9VAC5-50-50) [December 3, 2014]

INITIAL COMPLIANCE DETERMINATION – Phase 2

34. **Stack Test –** Performance tests shall be conducted for VOC from RTO1 to determine compliance with the control efficiency requirements contained in Condition 22. The tests shall be performed, reported and demonstrate compliance within 60 days after achieving the maximum production rate at which Banbury Mixer 111 will be operated but in no event later

than 180 days after start-up of Banbury Mixer 111, and within 60 days after achieving the maximum production rate at which Banbury Mixer 112 will be operated but in no event later than 180 days after start-up of Banbury Mixer 112. 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 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.
(9VAC5-50-30 and 9VAC5-80-1675) [December 3, 2014]

INITIAL NOTIFICATION/SUBMITTAL – Phase 2

35. **Initial Notifications/Submittals** - The permittee shall furnish written documentation to the Blue Ridge Regional Office of:

Notifications

a. The actual date on which construction of Banbury Mixer 111 commenced within 30 days after such date.

b. The actual date on which construction of Banbury Mixer 112 commenced within 30 days after such date.

c. The actual date on which shutdown of Banbury Mixer 2 occurred within 15 days of such date.

d. The actual date on which start-up of Banbury Mixer 111 occurred within 15 days of such date.

e. The actual date on which start-up of Banbury Mixer 112 occurred within 15 days of such date.

f. The anticipated dates of RTO performance tests required by Condition 34 postmarked at least 30 days prior to such date.

Submittal

g. The control technology review required by Condition 20.

(9VAC5-80-1985 E, 9VAC5-80-1180 and 9VAC5-50-50) [December 3, 2014]

Section III - Significant Amendment of 9/4/2002 Permit

36. Upon start-up of Banbury Mixer 110 (EU0110), Section III of this permit shall supersede your permits dated January 4, 1980, February 28, 1985, September 16, 1985, December 23, 1985, March 18, 1988 (as amended February 17, 1989), May 3, 1990, December 17, 1993, May 10 1996, September 16, 1999, July 28, 2000, and June 28, 2002.

For those permit conditions in this section that have versions designated "A" and "B", the "A" version shall apply upon start-up of Banbury Mixer 110. Upon startup of the first unit in Phase 2, the "B" versions shall supersede their version "A" counterpart.
(9VAC5-80-1985 E, and 9VAC5-80-1180) [December 3, 2014]

APPLICATION – Section III

37. Except as specified in this permit, the permitted facility is to be modified and operated as represented in the permit applications dated February 7, 2000 and March 7, 2000 (including supplemental information dated April 5, April 10, April 25, May 1, May 11, May 23, and June 1, 2000), as amended October 1, 2001 and June 28, 2002 and December 2, 2013 (including amendment information dated September 12, 2014 and supplemental information dated October 2, 2014). Any changes in the permit application specifications or any existing facilities which alter the impact of the facility on air quality may require a permit. Failure to obtain such a permit prior to construction may result in enforcement action.
(9VAC5-50-390 and 9VAC5-80-1210)

PROCESS REQUIREMENTS – Section III

38. **Equipment List** - New equipment to be installed at this facility consists of:
- 2 DDM Machines (Reference No. DDM1 and DDM2)
- 26 Tire Building Machines (Reference No. NG01-NG26)
- 12 Tire Curing Presses
- 1 Aero Tire Building Machine

Equipment to be modified consists of:

A (Phase 1) 8 Banbury Mixers (Reference No. 1, 2 & 4 thru 9)
B (Phase 2) 7 Banbury Mixers (Reference No. 1 & 4 thru 9)

Previously permitted equipment consists of:

- 3 Spot-Au-Matic tire balance pad units

Operational changes approved for this facility consist of:

- a formulation change including use of silica and associated coupling agents

(9VAC5-80-1100 and 9VAC5-80-1605) [December 3, 2014]

39. **Emission Controls -** VOC emissions from Spot-Au-Matic tire balance pad units shall be controlled by a solvent vacuum recovery system. The solvent vacuum recovery system shall be provided with adequate access for inspection.
(9VAC5-80-1180 and 9VAC5-50-260) [September 4, 2002]

40. A. Emission Controls - Particulate emissions from Banbury mixers 1, 2 & 4 thru 9 shall be controlled by a fabric filter. Each fabric filter shall be provided with adequate access for inspection and equipped with a device to continuously measure the differential pressure drop across the fabric filter. Each monitoring device shall be installed, maintained and operated in accordance with approved procedures which shall include, as a minimum, the manufacturer's written requirements or

recommendations. Each monitoring device shall be provided with adequate access for inspection and shall be in operation when the Banbury mixer is operating.
(9VAC5-80-1180, 9VAC5-50-20 C and 9VAC5-50-260) [December 3, 2014]

B. Emission Controls - Particulate emissions from Banbury mixers 1 & 4 thru 9 shall be controlled by a fabric filter. Each fabric filter shall be provided with adequate access for inspection and equipped with a device to continuously measure the differential pressure drop across the fabric filter. Each monitoring device shall be installed, maintained and operated in accordance with approved procedures which shall include, as a minimum, the manufacturer's written requirements or recommendations. Each monitoring device shall be provided with adequate access for inspection and shall be in operation when the Banbury mixer is operating.
(9VAC5-80-1180, 9VAC5-50-20 C and 9VAC5-50-260) [December 3, 2014]

41. Emission Controls - Particulate emissions from the takeaway conveyors serving Banbury mixers number 7, 8, and 9 shall be controlled by a scrubber. Each scrubber shall be provided with adequate access for inspection and equipped with a device to continuously measure the differential pressure drop across the scrubber. Each monitoring device shall be installed, maintained and operated in accordance with approved procedures which shall include, as a minimum, the manufacturer's written requirements or recommendations. Each monitoring device shall be provided with adequate access for inspection and shall be in operation when the Banbury mixer is operating.
(9VAC5-80-1180, 9VAC5-50-20 C and 9VAC5-50-260) [September 4, 2002]

42. Fugitive VOC Emission Controls - Volatile organic compounds shall not be intentionally spilled, discarded to sewers, stored in open containers, or handled in any other manner that would result in evaporation beyond that consistent with air pollution control practices for minimizing emissions.
(9VAC5-50-260) [September 4, 2002]

OPERATING/EMISSION LIMITATIONS – Section III

43. Emission Limit, Curing - Uncontrolled non-ethanol VOC emissions from curing shall not exceed 86.0 tons per year, calculated monthly as the sum of each consecutive 12 month period.
(9VAC5-80-1100 and 9VAC5-80-1605) [September 4, 2002]

44. A Processing (Pelletized Rubber) - The Goodyear Danville facility shall produce no more than 50,208 tons of pelletized rubber compounds per year in Banbury mixer 2, calculated monthly as the sum of each consecutive 12 month period.
(9VAC5-80-1100) [December 3, 2014]

B Processing (Pelletized Rubber) - The Goodyear Danville facility shall produce no more than zero tons of pelletized rubber compounds per year, calculated monthly as the sum of each consecutive 12 month period.
(9VAC5-80-1100) [December 3, 2014]

45. A. Operational Limits, Mixing - The permittee shall not modify the dust collection system associated with the Banbury mixers (emission points currently controlled by fabric filters BBDC1, BBDC2 & BBDC4 thru BBDC9) in a manner that results in an increase in total volume of exhaust air.
(9VAC5-80-1180) [December 3, 2014]

B. Operational Limits, Mixing - The permittee shall not modify the dust collection system associated with the Banbury mixers (emission points currently controlled by fabric filters BBDC1 & BBDC4 thru BBDC9) in a manner that results in an increase in total volume of exhaust air.
(9VAC5-80-1180) [December 3, 2014]

46. A. Emission Limits, Mixing - Particulate emissions from each fabric filter associated with a Banbury mixer (BBDC1, BBDC2 & BBDC4 thru BBDC9) shall not exceed 0.01 grains/ dry standard cubic foot of exhaust air.
(9VAC5-50-260) [December 3, 2014]

B. Emission Limits, Mixing - Particulate emissions from each fabric filter associated with a Banbury mixer (BBDC1 & BBDC4 thru BBDC9) shall not exceed 0.01 grains/ dry standard cubic foot of exhaust air.
(9VAC5-50-260) [December 3, 2014]

47. A. Emission Limits, Mixing - VOC emissions from Banbury mixers B1, 2 & 4 thru 9 shall not exceed 168 tons per year, calculated monthly as the sum of each consecutive 12 month period. Compliance with the emission limit may be determined as follows:

$$VOC_{MIXING} = E_{MIXING} + (EF_{MIXING})\ (\text{Quantity of rubber mixed, in tons})$$

Where:

VOC_{MIXING} = VOC Emissions (in tons) from Banbury mixer operation
E_{MIXING} = Ethanol emissions (in tons), calculated as specified in Condition 48A, below
EF_{MIXING} = DEQ-approved emission factor for non-ethanol VOC from mixing, in lb/ton of rubber mixed

(9VAC5-80-1605, 9VAC5-50-280, and 9VAC5-80-1705) [December 3, 2014]

B. **Emission Limits, Mixing -** VOC emissions from Banbury mixers B1 & 4 thru 9 shall not exceed 147 tons per year, calculated monthly as the sum of each consecutive 12 month period. Compliance with the emission limit may be determined as follows:

$VOC_{MIXING} = E_{MIXING} + (EF_{MIXING})$ (Quantity of rubber mixed, in tons)

Where:
VOC_{MIXING} = VOC Emissions (in tons) from Banbury mixer operation
E_{MIXING} = Ethanol emissions (in tons), calculated as specified in Condition 48B, below
EF_{MIXING} = DEQ-approved emission factor for non-ethanol VOC from mixing, in lb/ton of rubber mixed

(9VAC5-80-1605, 9VAC5-50-280, and 9VAC5-80-1705) [December 3, 2014]

48. A. Emission Limits, Mixing - Ethanol emissions from each Banbury mixer (B1, 2 & 4 thru 9) shall not exceed 21.0 tons per year, calculated monthly as the sum of each consecutive 12 month period. For the coupling agents proposed in the permit application for this section of this permit, compliance with the emission limit may be determined as follows:

$E_{MIXING} = (.25)\ (0.171)\ (CA_{LOW}) + (.75)\ (0.194)\ (CA_{HIGH})$

Where:
E_{MIXING} = Ethanol emissions (in tons) from the Banbury mixer operation
CA_{LOW} = See condition 49
CA_{HIGH} = See condition 49

(9VAC5-80-1605, 9VAC5-50-280, and 9VAC5-80-1705) [December 3, 2014]

B. **Emission Limits, Mixing -** Ethanol emissions from each Banbury mixer (B1 & 4 thru 9) shall not exceed 21.0 tons per year, calculated monthly as the sum of each consecutive 12 month period. For the coupling agents proposed in the permit application for this section of this permit, compliance with the emission limit may be determined as follows:

$E_{MIXING} = (.25)\ (0.171)\ (CA_{LOW}) + (.75)\ (0.194)\ (CA_{HIGH})$

Where:
E_{MIXING} = Ethanol emissions (in tons) from the Banbury mixer operation
CA_{LOW} = See condition 49
CA_{HIGH} = See condition 49

(9VAC5-80-1605, 9VAC5-50-280, and 9VAC5-80-1705) [December 3, 2014]

49. A. Plantwide Emission Limits Related to Operation of Banbury Mixers 1, 2 & 4 thru 9 - Ethanol emissions throughout the facility from use of coupling agents and sulfur donors in Banbury Mixers 1, 2 & 4 thru 9 shall not exceed 385.7 tons per year, calculated monthly as the sum of each consecutive 12 month period. For the coupling agents and sulfur donors proposed in the permit application for this section of this permit, compliance with the emission limit may be determined as follows:

$E_{PLANTW1DE, BM1, 2 \& 4 thru 9} = 0.171 \times (CA_{LOW} + SD) + 0.194 \times (CA_{HIGH})$

Where:

$E_{PLANTWIDE, BM1, 2 \& 4 thru 9}$ = Plantwide ethanol emissions related to specified Banbury Mixers in tons per year

CA_{LOW} = Quantity (in tons) of coupling agent used in low temperature formulations (low temperature means greater than or equal to $250^{O}F$ but less than $300^{O}F$)

CA_{HIGH} = Quantity (in tons) of coupling agent used in high temperature formulations (high temperature means equal to or greater than $300^{O}F$)

SD = Quantity (in tons) of coupling agent functioning as sulfur donor in formulations which are mixed at temperatures less than $250^{O}F$

(9VAC5-80-1605) [December 3, 2014]

B. Plantwide Emission Limits Related to Operation of Banbury Mixers 1 & 4 thru 9- Ethanol emissions throughout the facility from use of coupling agents and sulfur donors in Banbury Mixers 1 & 4 thru 9 shall not exceed 322.4 tons per year, calculated monthly as the sum of each consecutive 12 month period. For the coupling agents and sulfur donors proposed in the permit application for this section of this permit, compliance with the emission limit may be determined as follows:

$E_{PLANTW1DE, BM1 \& 4 thru 9} = 0.171 \times (CA_{LOW} + SD) + 0.194 \times (CA_{HIGH})$

Where:

$E_{PLANTWIDE, BM1 \& 4 thru 9}$ = Plantwide ethanol emissions related specified Banbury Mixers in tons per year

CA_{LOW} = Quantity (in tons) of coupling agent used in low temperature formulations (low temperature means greater than or equal to $250^{O}F$ but less than $300^{O}F$)

CA_{HIGH} = Quantity (in tons) of coupling agent used in high temperature formulations (high temperature means equal to or greater than $300^{O}F$)

SD = Quantity (in tons) of coupling agent functioning as sulfur donor in formulations which are mixed at temperatures less than $250^{O}F$

(9VAC5-80-1605) [December 3, 2014]

50. Approved Formulations – As of the date of this section of this permit, the permittee is limited to use of coupling agents with ethanol generation rates less than or equal to those identified in the application referenced in Condition 37 of this section of this permit ("equivalent formulations"). The permittee may use alternative or additional coupling agents provided the following conditions are met:

a. ethanol emission limits in Conditions 48 and 49 are not exceeded,

b. the alternative formulations do not result in emissions of additional pollutants,

c. for each equivalent formulation, notification of usage (including MSDS and calculations supporting the ethanol generation rate) shall be provided to Blue Ridge Regional Office at least 30 days prior to initial usage, and

d. for each formulation having an ethanol generation rate greater than those proposed in the application referenced in Condition 37, prior written approval of formulation usage and the equation used for calculating emissions shall be obtained from the Blue Ridge Regional Office.

(9VAC5-80-1605 and 9VAC5-80-1985 E) [September 4, 2002]

51. Plantwide Emission Limits - VOC emissions from refresher solvent (including kanjine, isol, 80/10/10, or alternative solvents) shall not exceed 3.6 pounds per ton of cured rubber throughput, calculated monthly as the average for each consecutive 12 month period.
(9VAC5-80-1605, 9VAC5-50-280, and 9VAC5-80-1705) [September 4, 2002]

52. A. **Visible Emission Limit -** Visible emissions from each control device associated with a Banbury mixer (BBDC1, BBDC2 & BBDC4 thru BBDC9, DSDC1, DSDC2, BB7SCR, BB8SCR, and BB9SCR) shall not exceed 5 percent opacity as determined by EPA Method 9 (reference 40 CFR 60, Appendix A).
(9VAC5-80-1180 and 9VAC5-50-260) [December 3, 2014]

B. **Visible Emission Limit -** Visible emissions from each control device associated with a Banbury mixer (BBDC1& BBDC4 thru BBDC9, DSDC1, DSDC2, BB7SCR, BB8SCR, and BB9SCR) shall not exceed 5 percent opacity as determined by EPA Method 9 (reference 40 CFR 60, Appendix A).
(9VAC5-80-1180 and 9VAC5-50-260) [December 3, 2014]

53. Visible Emission Limit - Visible emissions from the exhaust stack associated with each new curing press shall not exceed 5 percent opacity as determined by EPA Method 9 (reference 40 CFR 60, Appendix A).
(9VAC5-80-1180 and 9VAC5-50-260) [September 4, 2002]

RECORDS – Section III

54. On Site Records - The permittee shall maintain records of emission data and operating parameters as necessary to demonstrate compliance with this section of 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. A. Annual production of cured rubber compounds related to Banbury Mixers 1, 2 & 4 thru 9 (in tons), calculated monthly as the sum of each consecutive 12 month period.

B. Annual production of cured rubber compounds related to Banbury Mixers 1 & 4 thru 9 (in tons), calculated monthly as the sum of each consecutive 12 month period.

b. A. Annual production of pelletized rubber compounds manufactured in Banbury mixer number 2 (in tons), calculated monthly as the sum of each consecutive 12 month period.

B. Annual production of pelletized rubber compounds manufactured in Banbury mixers 1 & 4 thru 9 (in tons), calculated monthly as the sum of each consecutive 12 month period.

c. A. Annual consumption of each coupling agent and sulfur donor used in Banbury Mixers 1, 2 & 4 thru 9 (in tons), calculated monthly as the sum of each consecutive 12 month period.

B. Annual consumption of each coupling agent and sulfur donor used in Banbury Mixers 1 & 4 thru 9 (in tons), calculated monthly as the sum of each consecutive 12 month period.

d. A. For each Banbury mixer (B1, 2 & 4 thru 9), throughput and manufacturing specification sheets for each formulation containing coupling agent or sulfur donor. Specification sheets shall include the identity and quantity of each coupling agent or sulfur donor and the maximum mixing temperature for the formulation.

B. For each Banbury mixer (B1 & 4 thru 9), throughput and manufacturing specification sheets for each formulation containing coupling agent or sulfur donor. Specification sheets shall include the identity and quantity of each coupling agent or sulfur donor and the maximum mixing temperature for the formulation.

e. For each coupling agent or sulfur donor used, Material Safety Data Sheets (MSDS) or other vendor information showing the composition, and supporting calculations needed to derive the emission rate of ethanol from mixing and curing processes.

f. Material Safety Data Sheets (MSDS) or other vendor information showing VOC content, HAP content, water content, and solids content for each ink, adhesive, or refresher solvent used.

g. Emission calculations showing pounds of refresher solvent emitted per ton of cured rubber produced, calculated monthly as the average of each consecutive 12 month period.

h. A. Monthly and annual ethanol emission calculations to verify compliance with the ethanol emission limitations in Conditions 48A and 49A. Annual emissions shall be calculated monthly as the sum of each consecutive 12 month period.

B. Monthly and annual ethanol emission calculations to verify compliance with the ethanol emission limitations in Conditions 48B and 49B. Annual emissions shall be calculated monthly as the sum of each consecutive 12 month period.

i. A. Monthly and annual VOC emission calculations to verify compliance with the VOC emission limitations in Conditions 43 and 47A. Annual emissions shall be calculated monthly as the sum of each consecutive 12 month period.

B. Monthly and annual VOC emission calculations to verify compliance with the VOC emission limitations in Conditions 43 and 47B. Annual emissions shall be calculated monthly as the sum of each consecutive 12 month period.

k. A. Records of maintenance or construction activities performed on the dust collection system for the Banbury mixers (emission points currently controlled by fabric filters BBDC1, BBDC2 & BBDC4 thru BBDC9), sufficient to demonstrate that there has been no increase in the total air handling capacity of the dust collection system.

B. Records of maintenance or construction activities performed on the dust collection system for the Banbury mixers (emission points currently controlled by fabric filters BBDC1& BBDC4 thru BBDC9), sufficient to demonstrate that there has been no increase in the total air handling capacity of the dust collection system.

1. Scheduled and unscheduled maintenance, and operator training.

These records shall be available for inspection by the DEQ and shall be current for the most recent five years. [December 3, 2014]
(9VAC5-50-50)

55. Test/Monitoring Ports - The permitted facility shall be constructed so as to allow for emissions testing upon reasonable notice at any time, using appropriate methods. Test ports shall be provided when requested at the appropriate locations.
(9VAC5-50-30 F) [September 4, 2002]

SECTION IV - General Conditions

56. Condition for Granting Permit – Until the end of the contemporaneous period for this current permit approval, if any physical change or change in method of operation of the source results in additional PM2.5 emissions above those already accounted for in the current permit application as defined in the Introduction to this permit, the owner shall submit a revised Net Emissions Increase calculation that includes the additional PM2.5. For the purposes of this permit, the end of the contemporaneous period occurs when the last emissions unit approved as part of this current permit begins to emit. The report shall be in writing and shall be submitted to the Blue Ridge Regional Office 30 days before such additional physical change or change in the method of operation.
(9VAC5-80-1180 A) [December 3, 2014]

57. Permit Invalidation – The portions of this permit to modify the mixing area of the rubber manufacturing facility shall become invalid, unless an extension is granted by the DEQ, if:

a. A program of continuous construction or modification of Phase 1 as described in Section I of this permit is not commenced within 18 months from the date of this permit.

b. The program of construction or modification of Phase 1 is discontinued for a period of 18 months or more, or is not completed within a reasonable time.

c. A program of continuous construction or modification of Phase 2 as described in Section II of this permit is not commenced within 18 months from the date of actual start-up of Banbury Mixer 110.

d. The program of construction or modification of Phase 2 is discontinued for a period of 18 months or more, or is not completed within a reasonable time.

(9VAC5-80-1210 and 9VAC5-80-1985) [December 3, 2014]

58. Permit Suspension/Revocation - This permit may be suspended or revoked if the permittee:

a. Knowingly makes material misstatements in the permit application or any amendments to it;

b. Fails to comply with the conditions of this permit;

c. Fails to comply with any emission standards applicable to a permitted emissions unit;

d. Causes emissions from the stationary source which result in violations of, or interfere with the attainment and maintenance of, any ambient air quality standard; or

e. Fails to operate in conformance with any applicable control strategy, including any emission standards or emissions limitations, in the State Implementation Plan in effect at the time an application for this permit is submitted.

(9VAC5-80-1210 G and 9VAC5-80-1985)

59. Right of Entry - The permittee shall allow authorized local, state, and federal representatives, upon the presentation of credentials:

a. To enter upon the permittee's premises on which the facility is located or in which any records are required to be kept under the terms and conditions of this permit;

b. To have access to and copy at reasonable times any records required to be kept under the terms and conditions of this permit or the State Air Pollution Control Board Regulations;

c. To inspect at reasonable times any facility, equipment, or process subject to the terms and conditions of this permit or the State Air Pollution Control Board Regulations; and

d. To sample or test at reasonable times.

For purposes of this condition, the time for inspection shall be deemed reasonable during regular business hours or whenever the facility is in operation. Nothing contained herein shall make an inspection time unreasonable during an emergency.
(9VAC5-170-130, 9VAC5-80-1985 E and 9VAC5-80-1180)

60. Maintenance/Operating Procedures –The permittee shall take the following measures in order to minimize the duration and frequency of excess emissions, with respect to air pollution control equipment and process equipment which affect such emissions:

a. Develop a maintenance schedule and maintain records of all scheduled and non-scheduled maintenance.

b. Maintain an inventory of spare parts.

c. Have available written operating procedures for equipment. These procedures shall be based on the manufacturer's recommendations, at a minimum.

d. Train operators in the proper operation of all such equipment and familiarize the operators with the written operating procedures, prior to their first operation of such equipment. The permittee shall maintain records of the training provided including the names of trainees, the date of training and the nature of the training.

Records of maintenance and training shall be maintained on site for a period of five years and shall be made available to DEQ personnel upon request.
(9VAC5-50-20 E, 9VAC5-80-1985 E and 9VAC5-80-1180 D)

61. **Record of Malfunctions** – The permittee shall maintain records of the occurrence and duration of any bypass, malfunction, shutdown or failure of the facility or its associated air pollution control equipment that results in excess emissions for more than one hour. Records shall include the date, time, duration, description (emission unit, pollutant affected, cause), corrective action, preventive measures taken and name of person generating the record.
(9VAC5-20-180 J, 9VAC5-80-1985 E and 9VAC5-80-1180 D)

62. **Notification for Facility or Control Equipment Malfunction** - The permittee shall furnish notification to the Blue Ridge Regional Office of malfunctions of the affected facility or related air pollution control equipment that may cause excess emissions for more than one hour, by facsimile transmission, telephone or telegraph. Such notification shall be made as soon as practicable but no later than four daytime business hours after the malfunction is discovered. The permittee shall provide a written statement giving all pertinent facts, including the estimated duration of the breakdown, within two weeks of discovery of the malfunction. When the condition causing the failure or malfunction has been corrected and the equipment is again in operation, the permittee shall notify the Blue Ridge Regional Office.
(9VAC5-20-180 C, 9VAC5-80-1985 E and 9VAC5-80-1180)

63. **Violation of Ambient Air Quality Standard** - The permittee shall, upon request of the DEQ, reduce the level of operation or shut down a facility, as necessary to avoid violating any primary ambient air quality standard and shall not return to normal operation until such time as the ambient air quality standard will not be violated.
(9VAC5-20-180 I, 9VAC5-80-1985 E and 9VAC5-80-1180)

64. **Change of Ownership** - In the case of a transfer of ownership of a stationary source, the new owner shall abide by any current minor NSR permit issued to the previous owner. The new owner shall notify the Blue Ridge Regional Office of the change of ownership within 30 days of the transfer.
(9VAC5-80-1240 and 9VAC5-80-1975)

65. **Permit Copy** - The permittee shall keep a copy of this permit on the premises of the facility to which it applies.
(9VAC5-80-1180 and 9VAC5-80-1985 E)

SOURCE TESTING REPORT FORMAT

Report Cover

1. Plant name and location
2. Units tested at source (indicate Ref. No. used by source in permit or registration)
3. Test Dates.
4. Tester; name, address and report date

Certification

1. Signed by team leader/certified observer (include certification date)
2. Signed by responsible company official
3. *Signed by reviewer

Copy of approved test protocol

Summary

1. Reason for testing
2. Test dates
3. Identification of unit tested & the maximum rated capacity
4. *For each emission unit, a table showing:
    a. Operating rate
    b. Test Methods
    c. Pollutants tested
    d. Test results for each run and the run average
    e. Pollutant standard or limit
5. Summarized process and control equipment data for each run and the average, as required by the test protocol
6. A statement that test was conducted in accordance with the test protocol or identification & discussion of deviations, including the likely impact on results
7. Any other important information

Source Operation

1. Description of process and control devices
2. Process and control equipment flow diagram
3. Sampling port location and dimensioned cross section Attached protocol includes: sketch of stack (elevation view) showing sampling port locations, upstream and downstream flow disturbances and their distances from ports; and a sketch of stack (plan view) showing sampling ports, ducts entering the stack and stack diameter or dimensions

Test Results

1. Detailed test results for each run
2. *Sample calculations
3. *Description of collected samples, to include audits when applicable

Appendix

1. *Raw production data
2. *Raw field data
3. *Laboratory reports
4. *Chain of custody records for lab samples
5. *Calibration procedures and results
6. Project participants and titles
7. Observers' names (industry and agency)
8. Related correspondence
9. Standard procedures

* Not applicable to visible emission evaluations