

STATE OF MISSISSIPPI AIR POLLUTION CONTROL PERMIT

TO CONSTRUCT AIR EMISSIONS EQUIPMENT

THIS CERTIFIES THAT

Continental Tire the Americas, LLC
3000 Continental Parkway
Norrell Road and I-20
Clinton, Mississippi
Hinds County

has been granted permission to construct air emissions equipment to comply with the emission limitations, monitoring requirements and other conditions set forth herein. This permit is issued in accordance with the provisions of the Mississippi Air and Water Pollution Control Law (Section 49-17-1 et. seq., Mississippi Code of 1972), and the regulations and standards adopted and promulgated thereunder.

MISSISSIPPI ENVIRONMENTAL QUALITY PERMIT BOARD

AUTHORIZED SIGNATURE
MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY

Issued: _____

Permit No.: 1080-00261

Draft/Proposed

SECTION 1

A. GENERAL CONDITIONS

1. This permit is for air pollution control purposes only. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.1.D.)
2. Any activities not identified in the application are not authorized by this permit. (Ref.: Miss. Code Ann. 49-17-29 1.b)
3. The knowing submittal of a permit application with false information may serve as the basis for the Permit Board to void the permit issued pursuant thereto or subject the applicant to penalties for operating without a valid permit pursuant to State Law. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.2.B(5).)
4. It is the responsibility of the applicant/permittee to obtain all other approvals, permits, clearances, easements, agreements, etc., which may be required including, but not limited to, all required local government zoning approvals or permits. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.1.D(6).)
5. The issuance of a permit does not release the permittee from liability for constructing or operating air emissions equipment in violation of any applicable statute, rule, or regulation of state or federal environmental authorities. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.2.B(7).)
6. 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 the permit, unless halting or reducing activity would create an imminent and substantial endangerment threatening the public health and safety of the lives and property of the people of this state. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.2.B(15)(a).)
7. The permit and/or any part thereof may be modified, revoked, reopened, and reissued, or terminated for cause. Sufficient cause for a permit to be reopened shall exist when an air emissions stationary source becomes subject to Title V. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.2.B(15)(b).)
8. The permit does not convey any property rights of any sort, or any exclusive privilege. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.2.B(15)(c).)
9. The permittee shall furnish to the DEQ within a reasonable time any information the DEQ 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 DEQ copies of records required to be kept by the permit or, for information claimed to be confidential, the permittee shall furnish such records to the DEQ along with a claim of confidentiality. The permittee may furnish such records directly to the Administrator along with a claim of confidentiality. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.2.B(15)(d).)
10. Design and Construction Requirements: The stationary source shall be designed and constructed so as to operate without causing a violation of an Applicable Rules and Regulations, without interfering with the attainment and maintenance of State and National Ambient Air Quality Standards, and such that the emission of air toxics does not result in an

ambient concentration sufficient to adversely affect human health and well-being or unreasonably and adversely affect plant or animal life beyond the stationary source boundaries. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.5.A.)

11. Solids Removal: The necessary facilities shall be constructed so that solids removed in the course of control of air emissions may be disposed of in a manner such as to prevent the solids from becoming windborne and to prevent the materials from entering State waters without the proper environmental permits. (Ref.: Miss. Code Ann. 49-17-29)
12. Diversion and Bypass of Air Pollution Controls: The air pollution control facilities shall be constructed such that diversion from or bypass of collection and control facilities is not needed except as provided for in 11 Miss. Admin. Code Pt. 2, R. 1.10., "Air Emission Regulations for the Prevention, Abatement, and Control of Air Contaminants." (Ref.: 11 Miss. Admin. Code Pt. 2, R. 1.10.)
13. Fugitive Dust Emissions from Construction Activities: The construction of the stationary source shall be performed in such a manner so as to reduce fugitive dust emissions from construction activities to a minimum. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.5.A(4).)
14. Right of Entry: The permittee shall allow the Mississippi Department of Environmental Quality Office of Pollution Control and the Mississippi Environmental Quality Permit Board and/or their representatives upon presentation of credentials:
 - a) To enter upon the permittee's premises where an air emission source is located or in which any records are required to be kept under the terms and conditions of this permit; and
 - b) At reasonable times to have access to and copy any records required to be kept under the terms and conditions of this permit; to inspect any monitoring equipment or monitoring method required in this permit; and to sample any air emissions.(Ref.: Miss. Code Ann. 49-17-21)
15. Permit Modification or Revocation: After notice and opportunity for a hearing, the Permit Board may modify the permit or revoke it in whole or in part for good cause shown including, but not limited to:
 - a) Persistent violation of any of the terms or conditions of this permit;
 - b) Obtaining this permit by misrepresentation or failure to disclose fully all relevant facts; or
 - c) A change in federal, state, or local laws or regulations that require either a temporary or permanent reduction or elimination of previously authorized air emission.(Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.2.C.)
16. Public Record and Confidential Information: Except for data determined to be confidential under the Mississippi Air & Water Pollution Control Law, all reports prepared in accordance with the terms of this permit shall be available for public inspection at the offices of the Mississippi Department of Environmental Quality, Office of Pollution Control. (Ref.: Miss. Code Ann. 49-17-39)

17. Permit Transfer: This permit shall not be transferred except upon approval of the Permit Board. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.16.B)
18. Severability: The provisions of this permit are severable. If any provision of the permit, or the application of any provision of the permit to any circumstances, is challenged or held invalid, the validity of the remaining permit provisions and/or portions thereof or their application to other persons or sets of circumstances, shall not be affected thereby. (Ref. 11 Miss. Admin. Code Pt. 2, R. 2.1.D(7).)
19. Permit Expiration: The permit to construct will expire if construction does not begin within eighteen (18) months from the date of issuance or if construction is suspended for eighteen (18) months or more. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.5.C(1).)
20. Certification of Construction: A new stationary source issued a Permit to Construct cannot begin operation until certification of construction by the permittee. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.5.D(3).)
21. Beginning Operation: Except as prohibited in Section 1, Condition 24 of this permit, after certification of construction by the permittee, the Permit to Construct shall be deemed to satisfy the requirement for a permit to operate until the date the application for issuance or modification of the Title V Permit or the application for issuance or modification of the State Permit to Operate, whichever is applicable, is due. This provision is not applicable to a source excluded from the requirement for a permit to operate as provided by 11 Miss. Admin. Code Pt. 2, R. 2.13.G. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.5.D(4).)
22. Application for a Permit to Operate: Except as otherwise specified in Section 1, Condition 24 of this permit, the application for issuance or modification of the State Permit to Operate or the Title V Permit, whichever is applicable, is due twelve (12) months after beginning operation or such earlier date or time as specified in the Permit to Construct. The Permit Board may specify an earlier date or time for submittal of the application. Beginning operation will be assumed to occur upon certification of construction, unless the permittee specifies differently in writing. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.5.D(5).)
23. Operating Under a Permit to Construct: Except as otherwise specified in Section 1, Condition 24 of this permit, upon submittal of a timely and complete application for issuance or modification of a State Permit to Operate or a Title V Permit, whichever is applicable, the applicant may continue to operate under the terms and conditions of the Permit to Construct and in compliance with the submitted application until the Permit Board issues, modifies, or denies the Permit to Operate. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.5.D(6).)
24. Application Requirements for a Permit to Operate for Moderate Modifications: For moderate modifications that require contemporaneous enforceable emissions reductions from more than one emission point in order to “net” out of PSD/NSR, the applicable Title V Permit to Operate or State Permit to Operate must be modified prior to beginning operation of the modified facilities. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.5.D(7).)
25. General Duty: All air emission equipment shall be operated as efficiently as possible to provide the maximum reduction of air contaminants. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.2.B(10).)

26. Deviation Reporting: Except as otherwise specified herein, the permittee shall report all deviations from permit requirements, including those attributable to upsets, the probable cause of such deviations, and any corrective actions or preventive measures taken. Said report shall be made within five (5) working days of the time the deviation began. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.2.B(10).)

27. Compliance Testing: Regarding compliance testing:

- a) The results of any emissions sampling and analysis shall be expressed both in units consistent with the standards set forth in any Applicable Rules and Regulations or this permit and in units of mass per time.
- b) Compliance testing will be performed at the expense of the permittee.
- c) Each emission sampling and analysis report shall include but not be limited to the following:
 - (1) detailed description of testing procedures;
 - (2) sample calculation(s);
 - (3) results; and
 - (4) comparison of results to all Applicable Rules and Regulations and to emission limitations in the permit.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.6.B(3), (4), and (6).)

B. GENERAL NOTIFICATION REQUIREMENTS

1. Within fifteen (15) days of beginning actual construction, the permittee must notify DEQ in writing that construction has begun. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.5.C(2).)
2. The permittee must notify DEQ in writing when construction does not begin within eighteen (18) months of issuance or if construction is suspended for eighteen (18) months or more. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.5.C(3).)
3. Upon the completion of construction or installation of an approved stationary source or modification, and prior to commencing operation, the applicant shall notify the Permit Board that construction or installation was performed in accordance with the approved plans and specifications on file with the Permit Board. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.5.D(1) and (3).)
4. The Permit Board shall be promptly notified in writing of any change in construction from the previously approved plans and specifications or permit. If the Permit Board determines the changes are substantial, it may require the submission of a new application to construct with “as built” plans and specifications. Notwithstanding any provision herein to the contrary, the acceptance of an “as built” application shall not constitute a waiver of the right to seek compliance penalties pursuant to State Law. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.5.D(2).)

SECTION 2
EMISSION POINT DESCRIPTION

The permittee is authorized to construct and operate, upon certification of construction, air emissions equipment, as described in the following table.

Emission Point	Description
Fuel Burning Equipment	
AA-001	23.3 MMBtu/hr Natural Gas-Fired Boiler No. 1
AA-002	23.3 MMBtu/hr Natural Gas-Fired Boiler No. 2
AA-003	38.8 MMBtu/hr Natural Gas-Fired Boiler No. 3
AA-004	500 hp Diesel-Fired Emergency Generator
AA-005	750 hp Diesel-Fired Emergency Firewater Pump No. 1
AA-006	750 hp Diesel-Fired Emergency Firewater Pump No. 2
Tire Production	
AA-007	Raw Material Handling
AA-008	Seven (7) Master and Three (3) Final Batch Mixers All Controlled with a Baghouse. A Minimum of Three (3) Mixers to be Controlled with a Regenerative Thermal Oxidizer upon reaching 272,580,000 Pounds of Rubber Processed per Year
AA-009	Milling, Calendaring, and Extruding (Rubber Processing)
AA-010	Tire Building and Solvent Usage
AA-011	Curing Process
AA-012	Rubber Grinding and Repair

**SECTION 3
EMISSION LIMITATIONS AND STANDARDS**

Emission Point	Applicable Requirement	Condition Number(s)	Pollutant/Parameter	Limitation/Standard
Facility Wide	11 Miss. Admin. Code Pt. 2, R.2.2.B(10).	3.1	VOC	≤ 249 tons/yr
	11 Miss. Admin. Code Pt. 2, R.1.3.B.	3.2	Opacity	≤ 40%
	11 Miss. Admin. Code Pt. 2, R.1.3.F(1).	3.3	PM (filterable only)	$E = 4.1 \times p^{0.67}$
	11 Miss. Admin. Code Pt. 2, R.2.2.B(10).	3.4		Install, operate and maintain the baghouses and filters at all times that emissions may be vented
	40 CFR 63, Subpart XXXX, National Emissions Standards for Hazardous Air Pollutants: Rubber Tire Manufacturing, §63.5981(a)	3.5	HAP	Applicability
	40 CFR 63, Subpart XXXX, §63.5984	3.6		Comply with emission limits in either option 1 or option 2 of Table 1 of Subpart XXXX
	40 CFR 63, Subpart XXXX, §63.5985	3.7		Compliance Alternatives
AA-010	40 CFR 60, Subpart BBB, Standards of Performance for the Rubber Tire Manufacturing Industry, §60.540	3.8	VOC	Applicability
	40 CFR 60, Subpart BBB, §60.542(a)(1)(ii)	3.9		Undertread Cementing Operation Limits
	40 CFR 60, Subpart BBB, §60.542(a)(2)(ii)	3.10		Sidewall Cementing Operation Limits
	40 CFR 60, Subpart BBB, §60.542(a)(3)	3.11		Tread End Cementing Operation Limits
	40 CFR 60, Subpart BBB, §60.542(a)(4)	3.12		Bead Cementing Operation Limits
	40 CFR 60, Subpart BBB, §60.542(a)(5)(i)	3.13		Green Tire Spraying Operation Limits
AA-001 AA-002 AA-003 AA-004 AA-005 AA-006	11 Miss. Admin. Code Pt. 2, R.1.3.D(1)(b).	3.14	PM	$E = 0.8808 \times I^{-0.1667}$
AA-001 AA-002 AA-003	11 Miss. Admin. Code Pt. 2, R.1.4.A(1).	3.15	SO ₂	4.8 lbs/MMBTU
	11 Miss. Admin. Code Pt. 2, R.2.2.B(10).	3.16	Fuel Requirement	Combust only natural gas except during periods of curtailment, gas supply interruption, startups, or periodic testing on liquid fuel during which distillate oil can be burned

	40 CFR 60, Subpart Dc, Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units, §60.40c(a)	3.17		Applicability
	40 CFR 63, Subpart DDDDD, National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters, §63.7485	3.18	HAP	Applicability
	40 CFR 63, Subpart DDDDD, §63.7500(a)(3)	3.19		Operating Requirements
AA-004 AA-005 AA-006	40 CFR 63, Subpart ZZZZ, National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines, §63.6585	3.20	HAP	Applicability
AA-004	40 CFR 63, Subpart ZZZZ, §63.6590(c)(7)	3.21		Comply with NSPS Subpart IIII
AA-004 AA-005 AA-006	40 CFR 60, Subpart IIII, Standards of Performance for Stationary Compression Ignition Internal Combustion Engines, §60.4200(a)	3.22		Applicability
	40 CFR 60, Subpart IIII, §60.4211(a)(1)	3.23		Must operate and maintain engines according to the manufacturer's emission-related instructions
	40 CFR 60, Subpart IIII, §60.4207(b)	3.24	Fuel Requirements	Combust only diesel fuel that meets the requirements in 40 CFR 80.510(b)
AA-004	40 CFR 60, Subpart IIII, §60.4205(b)	3.25		Engine must be an NSPS certified engine as specified in 40 CFR 89.112 and 40 CFR 89.113
AA-005 AA-006	40 CFR 60, Subpart IIII, §60.4205(c), and Table 4	3.26	NMHC + NO _x , CO, and PM	Comply with emission standards in Table 4 of Subpart IIII
AA-008	11 Miss. Admin. Code Pt. 2, R.2.2.B(10).	3.27	VOC	<p>≤ 144 tons/yr (on a 12-month rolling basis) before the facility reaches 272,580,000 lbs of rubber processed per year</p> <p>Route all emissions from at least three (3) mixers to the Regenerative Thermal Oxidizer after the facility reaches 272,580,000 lbs of rubber processed per year</p> <p>≤ 110 tons/yr (on a 12-month rolling basis) after the facility reaches 272,580,000 lbs of rubber processed per year</p>
		3.28		Maintain minimum operating temperature in combustion chamber

3.1 For the entire facility, the permittee shall not emit more than 249 tons per year (tons/yr) of volatile organic compounds (VOC), determined for each consecutive 12-month period on a rolling monthly basis. (Ref.: PSD Avoidance Limit established via 11 Miss. Admin. Code Pt. 2, R.2.2.B(10).)

- 3.2 For the entire facility, the permittee shall not cause, allow, or permit the discharge into the ambient air from any point source or emissions, any air contaminant in excess of 40% opacity. (Ref.: 11 Miss. Admin. Code Pt. 2, R.1.3.B.)
- 3.3 For the entire facility, the permittee shall not cause, permit, or allow the emission of particulate matter in total quantities in any one hour from any manufacturing process which includes any associated stacks, vents, outlets, or combination thereof, to exceed the amount determined by the relationship $E = 4.1 \times p^{0.67}$, where “E” is the emission rate in pounds per hour and “p” is the process weight input rate in tons per hour. (Ref.: 11 Miss. Admin. Code Pt. 2, R.1.3.F(1).)
- 3.4 For the entire facility, the permittee shall install, operate, and maintain each baghouse and filter at all times emissions may be vented from respective processes. (Ref.: 11 Miss. Admin. Code Pt. 2, R.2.2.B(10).)
- 3.5 For the entire facility, the permittee is subject to and shall comply with all applicable requirements of the National Emission Standards for Hazardous Air Pollutants: Rubber Tire Manufacturing (40 CFR 63, Subpart XXXX) and the General Provisions (40 CFR 63, Subpart A). (Ref.: §63.5981(a))
- 3.6 For the entire facility, the permittee shall meet the emission standards in either option 1 or option 2 of Table 1 of Subpart XXXX. (Ref.: §63.5984)
- 3.7 For the entire facility, the permittee shall use the following alternatives for meeting the emission limits in Condition 3.5:
- (a) Purchase Alternative: Use only cements and solvents that, as purchased, contain no more HAP than allowed by the emission limits in Table 1, option 1.
 - (b) Monthly average alternative, without using add-on control device: Use cements and solvents in such a way that the monthly average HAP emissions do not exceed the emission limits in Table 1, option 1 or option 2.
 - (c) Monthly average alternative, using an add-on control device: Use a control device to reduce HAP emissions so that the monthly average HAP emissions do not exceed the emission limits in Table 1, option 1 or option 2.
- (Ref.: §63.5985)
- 3.8 For Emission Point AA-010, the permittee is subject to and shall comply with all applicable requirements of the Standards of Performance for the Rubber Tire Manufacturing Industry (40 CFR 60, Subpart BBB) and the General Provisions (40 CFR 63, Subpart A). (Ref.: §60.540)
- 3.9 For Emission Point AA-010, the permittee shall not allow uncontrolled VOC emissions from undertread cementing operations to exceed the levels specified below, depending upon the duration of the compliance period:
- (a) 8,531 lb of VOC per 28 days,
 - (b) 8,846 lb of VOC per 29 days,
 - (c) 9,149 lb of VOC per 30 days,

- (d) 9,436 lb of VOC per 31 days, or
- (e) 10,670 lb of VOC per 35 days.
(Ref.: §60.542(a)(1)(ii))
- 3.10 For Emission Point AA-010, the permittee shall not allow uncontrolled VOC emissions from sidewall cementing operations to exceed the levels specified below, depending upon the duration of the compliance period:
 - (a) 7,099 lb of VOC per 28 days,
 - (b) 7,363 lb of VOC per 29 days,
 - (c) 7,606 lb of VOC per 30 days,
 - (d) 7,870 lb of VOC per 31 days, or
 - (e) 8,885 lb of VOC per 35 days.
(Ref.: §60.542(a)(2)(ii))
- 3.11 For Emission Point AA-010, the permittee shall not allow VOC emissions from tread end cementing operations to exceed 0.022 lb of VOC per tire cemented each month. (Ref.: §60.542(a)(3))
- 3.12 For Emission Point AA-010, the permittee shall now allow VOC emissions from bead cementing operations to exceed 0.011 lb of VOC per bead cemented each month. (Ref.: §60.542(a)(4))
- 3.13 For Emission Point AA-010, the permittee shall not allow VOC emissions from water-based green tire spraying operations to exceed 0.0026 lb of VOC per tire sprayed with an inside green tire spray for each month and 0.021 lb of VOC per tire sprayed with an outside green tire spray for each month. (Ref.: §60.542(a)(5))
- 3.14 For Emission Points AA-001, AA-002, AA-003, AA-004, AA-005, and AA-006, the permittee shall not cause, permit, or allow the emission of ash and/or particulate matter from fossil fuel burning installations of less than 10 million BTU per hour heat input to exceed 0.6 pounds per millions BTU per hour heat input. (Ref.: 11 Miss. Admin. Code Pt. 2, R.1.3.D(1)(a).)
- 3.15 For Emission Points AA-001, AA-002, and AA-003, the permittee shall not cause, permit, or allow the emission of sulfur oxides from each fuel burning installation in which the fuel is burned primarily to produce heat or power by indirect heat transfer to exceed 4.8 pounds (measured as sulfur dioxide) per million BTU heat input. (Ref.: 11 Miss. Admin. Code Pt. 2, R.1.4.A(1).)
- 3.16 For Emission Points AA-001, AA-002, and AA-003, the permittee shall combust natural gas in the boilers and shall only burn distillate fuel oil during periods of gas curtailment, gas supply interruption, or periodic testing on liquid fuel. Periodic testing of liquid fuel shall not exceed a combined total of 48 hours during any calendar year. (Ref.: 11 Miss. Admin. Code Pt. 2, R.2.2.B(10).)
- 3.17 For Emission Points AA-001, AA-002, and AA-003, the permittee is subject to and shall comply with all applicable requirements of the Standards of Performance for Small

Industrial-Commercial-Institutional Steam Generating Units (40 CFR 60, Subpart Dc) and the General Provisions (40 CFR 60, Subpart A). (Ref.: §60.40c(a))

- 3.18 For Emission Points AA-001, AA-002, and AA-003, the permittee is subject to and shall comply with all applicable requirements of the National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters (40 CFR 63, Subpart DDDDD) and the General Provisions (40 CFR 63, Subpart A). (Ref.: §63.7485)
- 3.19 For Emission Points AA-001, AA-002, and AA-003, the permittee shall at all times operate and maintain the boilers, including any monitoring equipment, in a manner consistent with safe and good air pollution control practices for minimizing emissions. (Ref.: §60.7500(a)(3))
- 3.20 For Emission Points AA-004, AA-005, and AA-006, the permittee is subject to and shall comply with all applicable requirements of the National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (40 CFR 63, Subpart ZZZZ) and the General Provisions (40 CFR 63, Subpart A). (Ref.: §63.6585)
- 3.21 For Emission Point AA-004, the permittee shall meet the requirements of 40 CFR 63, Subpart ZZZZ, by meeting the requirements of 40 CFR 60, Subpart IIII. No further requirements apply for such engines under Subpart ZZZZ. (Ref.: §63.6590(c)(7))
- 3.22 For Emission Points AA-004, AA-005, and AA-006, the permittee is subject to and shall comply with all applicable requirements of the Standards of Performance for Stationary Compression Ignition Internal Combustion Engines (40 CFR 60, Subpart IIII) and the General Provisions (40 CFR 60, Subpart A). (Ref.: §60.4200(a))
- 3.23 For Emission Points AA-004, AA-005, and AA-006, the permittee shall do the following:
- (a) Operate and maintain the stationary CI internal combustion engine and control device according to the manufacturer's emission-related written instructions;
 - (b) Change only those emission-related settings that are permitted by the manufacturer; and
 - (c) Meet the requirements of 40 CFR part 89, 94, and/or 1068, as they apply to you. (Ref.: §60.4211(a))
- 3.24 For Emission Points AA-004, AA-005, and AA-006, the permittee shall only combust diesel fuel that meets the requirements in 40 CFR 80.510(b) for nonroad diesel fuel. (Ref.: §60.4207(b) and §63.6604(c))
- 3.25 For Emission Point AA-004, the permittee shall meet the emission standards in 40 CFR 60.4202 by purchasing an NSPS certified engine as specified in 40 CFR 89.112 and 40 CFR 89.113. The engine must be installed and configured according to the manufacturer's emission-related specifications, except as permitted in 40 CFR 60.4211. (Ref.: §60.4205(b))
- 3.26 For Emission Points AA-005 and AA-006, the permittee shall meet the emission standards in Table 4 of Subpart IIII. (Ref.: §60.4205)

- 3.27 For Emission Point AA-008, the permittee must comply with the following:
- (a) At all times before the permittee's total annual rubber processed reaches 272,580,000 lbs of rubber per year, the permittee shall not emit more than 144 tons per year (tons/yr) of volatile organic compounds, determined for each consecutive 12-month period on a rolling monthly basis.
 - (b) At all times after the permittee's total annual rubber processed reaches 272,580,000 lbs of rubber per year, the permittee must:
 - (1) Route all emissions from a minimum of three (3) mixers to the Regenerative Thermal Oxidizer(s) at all times emissions may be generated; and
 - (2) Not emit more than 110 tons per year (tons/yr) of volatile organic compounds, determined for each consecutive 12-month period on a rolling monthly basis.

(Ref.: PSD Avoidance Limit established via 11 Miss. Admin. Code Pt. 2, R.2.2.B(10).)

- 3.28 For Emission Point AA-008, upon startup of the Regenerative Thermal Oxidizer(s), the permittee shall maintain a minimum operating temperature in the combustion chamber based upon the results of the Initial Performance Test. The minimum temperature shall be revised based on the results of the subsequent performance tests. The minimum temperature shall be the 3-hour average temperature established by the performance test or no less than 1562°F, whichever is higher, and shall be determined for each consecutive 3-hour period. (Ref.: 11 Miss. Admin. Code Pt. 2, R.2.2.B(10).)

**SECTION 4
WORK PRACTICES**

Emission Point	Applicable Requirement	Condition Number(s)	Pollutant/Parameter	Work Practice
AA-001 AA-002 AA-003	40 CFR 63, Subpart DDDDD, National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters, §63.7485	4.1	HAP	Annual tune-up
AA-004 AA-005 AA-006	40 CFR 63, Subpart IIII, Standards of Performance for Stationary Compression Ignition Internal Combustion Engines, §63.4211(f)	4.2		Emergency Operations

- 4.1 For Emission Points AA-001, AA-002, and AA-003, the permittee shall complete an initial tune up, no more than 13 months after startup. Subsequent tune-ups shall be completed no more than 13 months after the previous one. If a boiler is not operating on the required date of the tune-up, the tune-up must be conducted within 30 calendar days of startup. The tune-up must be completed in accordance with (a) through (f) below.
- (a) As applicable, inspect the burner, and clean or replace any components of the burner as necessary (you may delay the burner inspection until the next scheduled unit shutdown). At units where entry into a piece of process equipment or into a storage vessel is required to complete the tune-up inspections, inspections are required only during planned entries into the storage vessel or process equipment.
 - (b) Inspect the flame pattern, as applicable, and adjust the burner as necessary to optimize the flame pattern. The adjustment should be consistent with the manufacturer's specifications, if available.
 - (c) Inspect the system controlling the air-to-fuel ratio, as applicable, and ensure that it is correctly calibrated and functioning properly (you may delay the inspection until the next scheduled unit shutdown).
 - (d) Optimize total emissions of CO. This optimization should be consistent with the manufacturer's specifications, if available, and with any NOX requirement to which the unit is subject.
 - (e) Measure the concentrations in the effluent stream of CO in parts per million, by volume, and oxygen in volume percent, before and after the adjustments are made (measurements may be either on a dry or wet basis, as long as it is the same basis before and after the adjustments are made). Measurements may be taken using a portable CO analyzer.
 - (f) Maintain on-site and submit, if requested by MDEQ, a report containing the following information:
 - (1) The concentrations of CO in the effluent stream in parts per million, by volume, and oxygen in volume percent, measured at high fire or typical operating load, before and after the tune-up.

- (2) A description of any corrective actions taken as a part of the tune-up.
- (3) The type and amount of fuel used over the 12 months prior to the tune-up, but only if the boiler was physically and legally capable of using more than one type of fuel during that period. Boilers sharing a fuel meter may estimate the fuel use.

(Ref.: §63.7510(g), §63.7515(d), §63.7540(a)(10)(i)-(vi) and (13), and Table 3 of Subpart DDDDD)

4.2 For Emission Points AA-004, AA-005, and AA-006, the permittee must operate the engines according to the requirements of this condition. Any operation other than emergency operation, maintenance and testing, emergency demand response, and operation in non-emergency situations for 50 hours per year, as described in paragraphs (1) through (3), is prohibited. If the engine is not operated according to these requirements, the engines will not be considered emergency engines under this subpart and must meet all requirements for non-emergency engines.

- (1) There is no time limit on the use of emergency stationary ICE in emergency situations.
- (2) The permittee may operate the emergency engines for maintenance checks and readiness testing for a maximum of 100 hours per calendar year. Any operation for non-emergency situations as allowed by paragraph (3) of this section counts as part of the 100 hours per calendar year allowed by this paragraph.

Emergency stationary ICE may be operated for maintenance checks and readiness testing, provided that the tests are recommended by federal, state or local government, the manufacturer, the vendor, the regional transmission organization or equivalent balancing authority and transmission operator, or the insurance company associated with the engine. The permittee may petition MDEQ for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the permittee maintains records indicating that federal, state, or local standards require maintenance and testing of emergency ICE beyond 100 hours per calendar year.

- (3) The engines may be operated for up to 50 hours per calendar year in non-emergency situations. The 50 hours of operation in non-emergency situations are counted as part of the 100 hours per calendar year for maintenance and testing in paragraph (2).

(Ref.: §63.4211(f))

**SECTION 5
MONITORING AND RECORDKEEPING REQUIREMENTS**

Emission Point	Applicable Requirement	Condition Number(s)	Pollutant/Parameter	Monitoring/Recordkeeping Requirement
Facility Wide	11 Miss. Admin. Code Pt. 2, R.6.3.A(3)(b)(2).	5.1	Records Retention	Maintain all records for five (5) years from the date generated
	11 Miss. Admin. Code Pt. 2, R.2.2.B(11).	5.2	Rubber Processing	Monitor and record monthly rubber introduced to mixing process
		5.3	Records Retention	Monitor and record monthly VOC emissions on a 12-month rolling basis. Keep SDS for production materials containing VOC
	11 Miss. Admin. Code Pt. 2, R.6.3A(3)(a)(2).	5.4	Opacity	Visible emissions testing and recordkeeping
	40 CFR 63, Subpart XXXX, National Emissions Standards for Hazardous Air Pollutants: Rubber Tire Manufacturing, §63.6003(a), §63.6011(b), and Table 9	5.5	Records	Keep records of continuous compliance
		5.6		Keep records of compliance method(s)
		5.7		Keep all records
AA-010	40 CFR 60, Subpart BBB, Standards of Performance for the Rubber Tire Manufacturing Industry, §60.545(d)	5.8	Records	VOC monthly use and days in each compliance period
	40 CFR 60, Subpart BBB, §60.545(f)	5.9		Formulation data
AA-007 AA-008 AA-009 AA-010 AA-011 AA-012	11 Miss. Admin. Code Pt. 2, R.2.2.B(11).	5.10	Operations	Maintain pressure drop gauges
		5.11		Perform operation and maintenance checks
AA-001 AA-002 AA-003	40 CFR 63, Subpart DDDDD, National Emissions Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters, §63.755(a)	5.12	Records	Keep records of notifications and compliance status
	40 CFR 63, Subpart DDDDD, §63.7555(h)	5.13		Keep records of alternative fuels
	40 CFR 63, Subpart DDDDD, §63.7555(i)	5.14		Maintain records of startups and shutdowns
	40 CFR 63, Subpart DDDDD, §63.7555(j)	5.15		Maintain records of fuels
	40 CFR 63, Subpart DDDDD, §63.7560	5.16		Keep all records
AA-004 AA-005 AA-006	40 CFR 60, Subpart IIII, Standards of Performance for Stationary Compression Ignition Internal Combustion Engines, §60.4209(a) and §60.4214(b)	5.17	Hours of Operation	Install non-resettable hour meter and record hours of operation and reason for operation

AA-008	11 Miss. Admin. Code Pt. 2, R.2.2.B(11).	5.18	Records	Record date, time, and duration Regenerative Thermal Oxidizer technology is non-operational
	40 CFR 60, Subpart BBB, Standards of Performance for the Rubber Tire Manufacturing Industry, §60.544(a)(1) and §60.545(a)	5.19		Combustion Temperature Monitoring
	11 Miss. Admin. Code Pt. 2, R.2.2.B(11).	5.20	Performance Test	Initial Performance Test
		5.21	Temperature	Compliance monitoring
		5.22	Records Retention	Maintain files on maintenance and corrective actions

- 5.1 The permittee shall maintain sufficient records of all monitoring data and support information for a period of at least five (5) years from the date of the monitoring sample, measurement, report, or application. Support information includes all calibration and maintenance records, all original recordings for continuous monitoring instrumentation, and copies of all reports required by the permit. Records and reports may be maintained in electronic form as long as they are available at the facility for review by MDEQ personnel. (Ref.: 11 Miss. Admin. Code Pt. 2, R.6.3.A(3)(b)(2).)
- 5.2 The permittee shall monitor and record the total amount of rubber introduced to the mixing process for each month and shall calculate the total amount in pounds per year for each consecutive 12-month period. (Ref.: 11 Miss. Admin. Code Pt. 2, R.2.2.B(11).)
- 5.3 The permittee shall keep records of materials and fuel usage at the facility each month and shall calculate VOC emissions in tons per year for each consecutive 12-month period to show compliance with Condition 3.1. This approach must be based on the assumption that 100% of the VOCs in each solvent, cement, or other VOC containing material used are volatilized. The permittee shall also keep records of the calculations and methods used to quantify VOC emissions as well as the SDS for each VOC-containing material used at the facility. The destruction efficiency of the Regenerative Thermal Oxidizer technology used shall be the efficiency determined by the most recent performance test. Should the Regenerative Thermal Oxidizer technology be inoperable when emissions are being vented to it, no destruction efficiency shall be applied. (Ref: 11 Miss. Admin. Code Pt. 2, R.2.2.B(11).)
- 5.4 For the entire facility, the permittee shall conduct visual observations for visible emissions from all exhaust stacks on a weekly basis. Observations shall be conducted for a minimum of one (1) minute for each filter while materials are being loaded or transferred. Visual observations shall be conducted during daylight hours and during conditions representative of normal operation. If any visible emissions (not including condensed water vapor) are observed the permittee shall:
 - (a) Take corrective action that eliminates the visible emissions within 24 hours;
 - (b) Verify that the air emissions equipment and/or any associated air pollution equipment is operating normally, in accordance with design and standard

procedures, and under the same conditions in which compliance was achieved in the past; and

- (c) Perform an additional visual observation of six (6) consecutive minutes within three (3) business days.

If the corrective action does not result in “no visible emissions” being observed from the emission point, the permittee shall notify DEQ in writing within five (5) business days and shall have a certified visual emissions observer perform a visible emissions observation using EPA Reference Method 9 within five (5) business days of performing the initial visual observation.

The permittee shall record and maintain records documenting the following:

- (a) Identification of stack and/or Emission Point;
- (b) Results of all required visual observations, including Method 9 testing results when applicable;
- (c) Description of corrective action taken and a statement of verification that the emission unit and the associated pollution control device are operating normally; and
- (d) Date and time any visible emissions were abated.

A log of these records shall be maintained in accordance with Condition 5.1 and made available upon request by MDEQ.

(Ref.: 11 Miss. Admin. Code Pt. 2, R.6.3.A(3)(a)(2).)

- 5.5 For Emission Points AA-007, AA-008, AA-009, AA-010, AA-011, and AA-012, the permittee shall keep the following records to demonstrate continuous compliance for those affected sources:

- (a) If the permittee is complying with the purchase compliance alternative in §63.5985(a) to meet the HAP constituent emission limit in Table 1 (option 1) of 40 CFR 63, Subpart XXXX, the following records must be maintained:
 - (i) A list of each cement and solvent, as purchased, that is used at the affected source during each monthly operating period and the manufacturer or supplier of each;
 - (ii) A record of Method 311 (40 CFR 60, Appendix A), or approved alternative method, test results, or any other reasonable means for indicating the mass percent of each HAP for each cement and solvent as purchased. Other reasonable means include, but are not limited to: material safety data sheets, certified product data sheets, or manufacturer’s hazardous air pollutant data sheets.
- (b) If the permittee is complying with the monthly average compliance alternative without using a control device according to §63.5985(b) to meet the HAP constituent emission limit in Table 1 (option 1) of 40 CFR 63, Subpart XXXX, the following records must be maintained:

- (i) A record of Method 311 (40 CFR 60, Appendix A), or approved alternative method, test results, or any other reasonable means for indicating the mass percent of each HAP for each cement and solvent as purchased. Other reasonable means includes, but are not limited to: material safety data sheets, certified product data sheets, or manufacturer's hazardous air pollutant data sheets.
- (c) If the permittee is complying with the monthly average compliance alternative using a control device according to §63.5985(c) to meet the HAP constituent emission limit in Table 1 (option 1 or 2) of 40 CFR 63, Subpart XXXX, the following records must be maintained:
 - (i) The same information as sources complying with the monthly average alternative with using a control device in Condition 5.17(b)(i).
 - (ii) Records of operating parameter values for each operating parameter that applies. The mass of each cement and solvent used each monthly period.
- (d) All data and calculations used to determine the monthly average mass percent for each HAP for each monthly operating period.
- (e) Monthly averages of emission in the appropriate emission limit format.

(Ref.: §63.6003(a), §63.6011(b) and Table 9 to Subpart XXXX)

5.6 For Emission Points AA-007, AA-008, AA-009, AA-010, AA-011, and AA-012, the permittee shall demonstrate continuous compliance with each applicable limit in Table 1 of 40 CFR 63, Subpart XXXX, using one of the methods specified below:

- (a) If complying with purchase compliance alternatives, the permittee must demonstrate for each monthly period that no cements and solvents were purchased and used containing HAP in amounts above the composition limits in Table 1, option 1, determined according to the procedures in 40 CFR 63.5994(a) and (b)(1). After the permittee has submitted the Notification of Compliance Status, if the permittee uses a cement or solvent for which they have not previously verified percent HAP mass using the methods in §63.5994(a), the permittee shall verify that each cement and solvent used in the affected source meets the emission limit, using any of the methods in §63.5994(a). The permittee must update the list of all the cements and solvents used at the affected source.
- (b) If complying with the monthly average compliance alternative without using a control device according to §63.5985(b), the permittee must demonstrate the monthly average HAP emissions for each monthly operating period do not exceed the emission limits in Table 1 of 40 CFR 63, Subpart XXXX, determined according to the applicable procedures in
 - (i) §63.5994(a) and (b)(2) for option 1; and
 - (ii) §63.5994(c)(1), (2), and (3) for option 2.
- (c) If complying with the monthly average compliance alternative using a control device according to §63.5985(c), the permittee must demonstrate that the monthly average HAP emissions for each monthly operating period do not exceed the

emission limits in Table 1 of 40 CFR 63, Subpart XXXX, determined according to the applicable procedures in

- (i) §63.5994(a), (b)(3) and (4), (d), (e), and (f) for option 1; and
- (ii) §63.5994(c)(1) and (2), (4) and (5), (d), (e), and (f) for option 2.

(Ref.: §63.6004 and Table 10 to Subpart XXXX)

- 5.7 For Emission Points AA-007, AA-008, AA-009, AA-010, AA-011, and AA-012, the permittee shall keep the following records:
- (a) A copy of each notification and report that was submitted to comply with 40 CFR 63, Subpart XXXX, including all documentation supporting any Initial Notification or Notification of Compliance Status that you submitted, according to the requirements in §63.10(b)(2)(xiv);
 - (b) Records of performance tests as required in §63.10(b)(2)(viii); and
 - (c) The records in §63.6(e)(3)(iii), (iv), and (v) related to startup, shutdown, and malfunction.
- (Ref.: §63.6011(a))
- 5.8 For Emission Point AA-010, to demonstrate compliance with Conditions 3.9, 3.10, 3.11 and 3.12, the permittee shall maintain records of monthly VOC use and the number of days in each compliance period. (Ref.: §60.545(d))
- 5.9 For Emission Point AA-010, to demonstrate compliance with Condition 3.13, the permittee shall maintain records of formulation data or the results of Method 24 analysis conducted to verify the VOC content of the spray. (Ref.: §60.545(f))
- 5.10 For Emission Points AA-007, AA-008, AA-009, AA-010, AA-011, and AA-012, the permittee shall install, operate, and maintain pressure drop gauge(s) on each module of the baghouse(s). Pressure drop readings shall be recorded daily during source operation. The baghouse(s) shall be in place and operational whenever process controlled by the baghouse(s) are running, except during periods of baghouse malfunction or mechanical failure. Operational ranges for the monitored parameters shall be established to provide a reasonable assurance of compliance. These operational ranges for the monitored parameters shall be derived from vendor certification and/or operational history and visual inspections, which demonstrated the proper operation of the equipment in compliance. (Ref.: 11 Miss. Admin. Code Pt. 2, R.2.2.B(11).)
- 5.11 For Emission Points AA-007, AA-008, AA-009, AA-010, AA-011, and AA-012, all cyclone(s) shall be operational whenever processes controlled by the cyclone(s) is/are running, except during periods of malfunction or mechanical failure. Operation and maintenance checks shall be performed on the cyclone(s) for proper operation on a weekly basis. Repairs shall be made as necessary. Records of repairs and maintenance shall be logged and maintained on site. (Ref.: 11 Miss. Admin. Code Pt. 2, R.2.2.B(11).)
- 5.12 For Emission Points AA-001, AA-002, and AA-003, the permittee shall keep the following records:

- (a) A copy of each notification and report that was submitted to comply with 40 CFR 63, Subpart DDDDD, including all documentation supporting any Initial Notification or Notification of Compliance Status or semiannual compliance report that was submitted, according to the requirements in 40 CFR 63.10(b)(2)(xiv).
- (b) Records of compliance demonstrations and performance evaluations are required in 40 CFR 63.10(b)(2)(viii).

(Ref.: §63.7555(a))

- 5.13 For Emission Points AA-001, AA-002, and AA-003, if the permittee uses an alternative fuel other than natural gas, the permittee shall keep records of the total hours per calendar year that alternative fuel is burned and the total hours per calendar year that the unit operated during periods of gas curtailment of gas supply emergencies. (Ref.: §63.7555(h))
 - 5.14 For Emission Points AA-001, AA-002, and AA-003, the permittee shall maintain records of the calendar date, time, occurrence and duration of each startup and shutdown. (Ref.: §63.7555(i))
 - 5.15 For Emission Points AA-001, AA-002, and AA-003, the permittee shall maintain records of the type(s) and amount(s) of fuels used during each startup and shutdown. (Ref.: §63.7555(j))
 - 5.16 For Emission Points AA-001, AA-002, and AA-003, the permittee shall comply with the following:
 - (a) Records shall be in a form suitable and readily available for expeditious review, according to 40 CFR 63.10(b)(1).
 - (b) Each record shall be kept for five (5) years following the date of each occurrence, measurement, maintenance, corrective action, report, or record.
 - (c) Records shall be kept on site, or accessible from on site for at least two (2) years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to 40 CFR 63.10(b)(1). The records can be kept off site for the remaining three (3) years. However, the permittee shall keep records in accordance with Condition 5.1.
- (Ref.: §63.7560)
- 5.17 For Emission Points AA-004, AA-005, and AA-006, the permittee shall install a non-resettable hour meter prior to startup of each engine. The permittee shall keep records of the operation of each engine in emergency and non-emergency service that is recorded through the non-resettable hour meter. The permittee must record the time of operation of the engine and the reason the engine was in operation during that time. (Ref.: §60.4209(a) and §60.4214(b))
 - 5.18 For Emission Point AA-008, upon startup of the Regenerative Thermal Oxidizer(s), the permittee shall keep records of the date, time, and duration of any operation of the mixers in which the Regenerative Thermal Oxidizer(s) is/are non-operational. (Ref.: 11 Miss. Admin. Code Pt. 2, R.2.2.B(11).)

5.19 For Emission Point AA-008, upon startup of the Regenerative Thermal Oxidizer(s), the permittee shall demonstrate compliance with a continuous recorder for the temperature of the gas stream in the combustion zone of the incinerator, in accordance with the following:

- (a) Install, calibrate, maintain, and operate temperature monitoring equipment according to the manufacturer's specifications. The calibration of the cart recorder data logger or temperature indicator must be verified every three (3) months; of the chart recorder, data logger, or temperature indicator must be replaced. The permittee must replace the equipment either if the permittee chooses not to perform the calibration or if the equipment cannot be calibrated properly. Each temperature monitoring device must have an accuracy of +/- 1% of the temperature being monitored in degrees Celsius or +/- 0.5 degrees Celsius, whichever is greater.
- (b) Install the thermocouple or temperature sensor in the combustion chamber at the location in the combustion zone established during the initial performance test.

(Ref.: §60.544(a)(1) and §60.545(a))

5.20 For Emission Point AA-008, within 180 days of startup of the Regenerative Thermal Oxidizer(s), the permittee shall conduct an initial performance test to establish the destruction or removal efficiency of the Regenerative Thermal Oxidizer technology, according to the methods and procedures in paragraphs (a) and (c) below:

- (a) A performance test to establish the destruction efficiency of the thermal oxidizer(s) shall be conducted such that inlet and outlet testing is conducted simultaneously. The data must be reduced in accordance with the test methods and procedures in paragraphs (1) through (9) below.
 - (1) Method 1 or 1A of 40 CFR Part 60, Appendix A, is used for sample and velocity traverses to determine sampling locations.
 - (2) Method 2, 2A, 2C, 2D, 2F, or 2G of 40 CFR, Appendix A, is used to determine gas volumetric flow rate.
 - (3) Method 3, 3A, OR 3B of 40 CFR Part 60, Appendix A, used for gas analysis to determine dry molecular weight. The permittee may also use as an alternative to Method 3B, the manual method for measuring the oxygen, carbon dioxide, and carbon monoxide content of exhaust gas. ANSI/ASME PTC 19.10-1981, "Flue and Exhaust Gas Analyses" (incorporated by reference, see 40 CFR 63.14(g)(1)).
 - (4) Method 4 of 40 CFR Part 60, Appendix A, is used to determine stack gas moisture.
 - (5) Methods for determining gas volumetric flow rate, dry molecular weight, and stack gas moisture must be performed, as applicable, during each test run, as specified in paragraph (a)(7) below.
 - (6) Method 25 or 25A of 40 CFR Part 60, Appendix A, is used to determine total gaseous non-methane organic matter concentration. Use the same

test method for both the inlet and outlet measurements. Inlet and outlet measurements must be conducted simultaneously. The permittee shall submit notification of the intended test method to MDEQ for approval. The permittee shall use Method 25A if any of the conditions described in paragraphs (A) through (C) below apply to the thermal oxidizer(s).

- (A) The oxidizer exhaust gas volatile organic matter concentration of 50 ppmv or less is required to comply with the limits established in this permit.
 - (B) The volatile organic matter concentration at the inlet to the oxidizer and the required level of control are such that they result in exhaust gas volatile organic matter concentrations of 50 ppmv or less; or
 - (C) Due to the high efficiency of the oxidizer, the anticipated volatile organic matter concentration at the oxidizer exhaust is 50 ppmv or less regardless of inlet concentration.
- (7) Each performance test must consist of three separate runs; each run must be conducted for at least one hour under the conditions that exist when the affected source is operating under normal operating conditions. For the purpose of determining volatile organic concentrations and mass flow rates, the average of the results of all runs will apply.
- (8) The permittee shall determine the thermal oxidizer destruction efficiency, for each run, by calculating the volatile organic matter mass flow rates using the following equation:

$$M_f = Q_{sd}C_c(12)(0.0416)(10^{-6})$$

Where:

M_f = total organic volatile matter mass flow rate in kilograms per hour

C_c = concentration of organic compounds as carbon in the vent gas, as determined by Method 25 or 25A, ppmv, dry basis

Q_{sd} = volumetric flow rate of gases entering or exiting the thermal oxidizer, as determined by Method 2, 2A, 2C, 2D, 2F, or 2G, dry standard in cubic meters per hour

0.0416 – conversion factor for molar volume, kg-moles per cubic meter (at 293 Kelvin (K) and 760 millimeters of mercury (mmHg)).

- (9) For each run, determine the thermal oxidizer destruction efficiency, DRE, using the following equation:

$$DRE = [(M_{fi} - M_{fo})/M_{fi}] \times 100$$

Where:

DRE = organic emissions destruction or removal efficiency of the thermal oxidizer percent

M_{fi} = organic volatile matter mass flow rate at the inlet to the thermal oxidizer in kilograms per hour

M_{f_0} = organic volatile matter mass flow rate at the outlet to the thermal oxidizer in kilograms per hour

- (10) The thermal oxidizer destruction efficiency (DRE) is determined as the average of the efficiencies determined in the three test runs and calculated in the above equation.
- (b) The permittee shall record such process information as may be necessary to determine the conditions in existence at the time of the performance test. Operations during periods of startup, shutdown, and malfunction will not constitute representative conditions for the purpose of a performance test.
- (c) The permittee shall operate the mixer as close to its maximum rated capacity as operating conditions allow during the performance test.
- (d) The permittee shall establish the applicable operating limits required by this permit, which apply to the oxidizer. The permittee shall establish the operating limits during the performance test according to paragraphs (1) and (2) below.
 - (1) During the performance test, the permittee shall monitor and record the combustion temperature at least once every 15 minutes during each of the three test runs. The permittee shall monitor the temperature in the firebox of the thermal oxidizer or immediately downstream of the firebox before any substantial heat exchange occurs.
 - (2) The data collected during the performance test shall be used to calculate and record the average combustion temperature maintained during the performance test. The minimum operating limit for the thermal oxidizer will be this average combustion temperature or 1562°F, whichever is higher, until the next performance test is conducted.

(Ref.: 11 Miss. Admin. Code Pt. 2, R.2.2.B(11).)

5.21 For Emission Point AA-008, upon startup of the Regenerative Thermal Oxidizer(s), the permittee shall record the thermal oxidizer(s) combustion temperatures in accordance with the following:

- (a) Record the combustion temperature in accordance with the provisions of this permit continuously while the mixers are in operation.
- (b) Calculate a 1-hour average combustion temperature from temperature data collected during the hour.
- (c) Calculate a 3-hour average combustion temperature for each consecutive hour of operation. Compliance will be determined by comparing the thermal oxidizer 3-hour average combustion temperature with the minimum operating limit established in this permit.

(Ref.: 11 Miss. Admin. Code Pt. 2, R.2.2.B(11).)

5.22 For Emission Point AA-008, upon startup of the Regenerative Thermal Oxidizer(s), the permittee shall maintain the following records:

- (a) The occurrence and duration of each deviation from the minimum 3-hour average operating temperature limit, including the date and time of commence and completion of the deviation;
- (b) The occurrence and duration of each malfunction of process equipment, the closed vent system or the thermal oxidizer(s);
- (c) All required maintenance performed on the closed vent system, thermal oxidizer(s), and associated monitoring equipment;
- (d) Corrective actions taken during periods, which deviated from the minimum temperature limit (including corrective actions to restore malfunctioning process equipment to its normal or usual manner of operation);
- (e) All results of performance tests (including thermal oxidizer destruction efficiency determinations) and monitoring system performance evaluations;
- (f) All measurements as may be necessary to determine the conditions of performance tests and performance evaluations;
- (g) All monitoring system calibration checks;
- (h) All adjustments and maintenance performed on the monitoring system;
- (i) The date and time identifying each period during which the monitoring system was inoperative, failed, and/or could not be calibrated, including the nature of any repairs or adjustments made as a result;
- (j) The nature and cause of any malfunction (if known); and
- (k) All procedures that are part of a quality control program developed and implemented for the continuous monitoring system.

(Ref.: 11 Miss. Admin. Code Pt. 2, R.2.2.B(11).)

SECTION 6 REPORTING REQUIREMENTS

Emission Point	Applicable Requirement	Condition Number(s)	Reporting Requirement
Facility Wide	11 Miss. Admin. Code Pt. 2, R.6.3.A(3)(c)(2).	6.1	Report any permit deviations within five (5) days
	11 Miss. Admin. Code Pt. 2, R.6.3.A(3)(c)(1).	6.2	Submit semiannual reports
	11 Miss. Admin. Code Pt. 2, R.2.2.B(11).	6.3	Semiannual summary reports
		6.4	Comply with notification requirements of 40 CFR 63, Subpart XXXX
AA-008	11 Miss. Admin. Code Pt. 2, R.2.2.B(11).	6.5	Submit PTE and rubber processed evaluations with semiannual report
AA-010	11 Miss. Admin. Code Pt. 2, R.2.2.B(11).	6.6	Submittal of a detailed report outlining applicable requirements of 40 CFR 60, Subpart BBB
AA-001 AA-002 AA-003	40 CFR 60, Subpart Dc, Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units, §60.48c(a)	6.7	Initial Notification
	40 CFR 63, Subpart DDDDD, National Emissions Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters, §63.7545(e)	6.8	Notification of Compliance Status
	40 CFR 63, Subpart DDDDD, §63.7550(a), (b), and (c)(5)(i), (ii), (iii), (xiv), and (xvii), and Table 9	6.9	Compliance Report
AA-004 AA-005 AA-006	11 Miss. Admin. Code Pt. 2, R.2.2.B(11).	6.10	Submittal of a detailed report outlining applicable requirements of 40 CFR 60, Subpart IIII, and 40 CFR 63, Subpart ZZZZ

- 6.1 For the entire facility, the permittee shall report all deviations from the permit requirements, including those attributable to upsets, the probable cause of such deviations, and any corrective actions or preventive measures taken. Such reports shall be made within five (5) days of the time the deviation began. (Ref.: 11 Miss. Admin. Code Pt. 2, R.6.3.A(3)(c)(2).)
- 6.2 For the entire facility, the permittee shall submit reports of any required monitoring by July 31st and January 31st for the preceding six-month period. All instances of deviations from permit requirements must be clearly identified in such reports and all required reports must be certified by a responsible official consistent with 11 Miss. Admin. Code Pt. 2, R.6.2.E. (Ref.: 11 Miss. Admin. Code Pt. 2, R.6.3.A(3)(c)(1).)
- 6.3 For the entire facility, the permittee shall prepare a summary report of the required monitoring (including the amount of rubber in pounds per year introduced into the mixing process each consecutive 12-month period), which quantifies the VOC emissions from Emission Point AA-008 and the entire facility on a 12-month rolling total basis and

submit in accordance with Condition 6.2 of this permit. (Ref.: 11 Miss. Admin. Code Pt. 2, R.2.2.B(11).)

- 6.4 For the entire facility, the permittee must comply with all applicable notification requirements in 40 CFR 63, Subpart XXXX. (Ref.: 11 Miss. Admin. Code Pt. 2, R.2.2.B(11).)
- 6.5 For Emission Point AA-008, after achieving an annual rubber processed amount of 231,693,000 lbs of rubber per year, the permittee shall submit with each semiannual report required by Condition 6.2 a facility wide Potential-to-Emit volatile organic compounds analysis and monthly rubber processed values. The report must also contain the anticipated Potential-to-Emit volatile organic compounds analysis and annual rubber processed amount for the next semiannual period, including any new equipment or operations that will be proposed for construction or installation. This report must address the need for any air pollution control equipment that will be installed as required by Condition 3.27 or any other pollutants. Upon startup of the RTO, the facility will no longer be required to submit the report. (Ref.: 11 Miss. Admin. Code Pt. 2, R.2.2.B(11).)
- 6.6 For Emission Point AA-010, the permittee shall develop and submit a detailed report of all applicable requirements of 40 CFR 60, Subpart BBB, including limitations, notifications, monitoring, testing, reporting, and recordkeeping no later than 30 days form the Certification of Construction date. (Ref.: 11 Miss. Admin. Code Pt. 2, R.2.2.B(11).)
- 6.7 For Emission Points AA-001, AA-002, and AA-003, the permittee shall submit notification of the date of construction and actual startup, as provided by §60.7. This notification shall include the design heat input capacity of the affected facility and identification of fuels to be combusted in the affected facility. (Ref.: §60.48c(a))
- 6.8 For Emission Points AA-001, AA-002, and AA-003, the permittee shall submit a Notification of Compliance Status within 60 days of startup, that contains all applicable information listed in 40 CFR 63.7545(e)(1) through (8). (Ref.: §63.7545(e))
- 6.9 For Emission Points AA-001, AA-002, and AA-003, the permittee shall submit the information listed in (a) through (e) below in accordance with the next report required per Condition 6.2 once the tune-up required in Condition 4.1 has been completed. This information must be submitted for each unit:
 - (a) Company and Facility name and address,
 - (b) Process unit information,
 - (c) Date of report and beginning and ending dates of reporting period,
 - (d) The date of the most recent tune-up for Emission Points AA-001 and AA-002, including the date of the most recent burner inspection, if it was not done annually and was delayed until the next schedule or unscheduled unit shut down, and
 - (e) Statement by a responsible official with that official's name, title, and signature, certifying the truth, accuracy, and completeness of the content of the report.(Ref.: §63.7550(a), (b), and (c)(5)(i), (ii), (iii), (xiv), (xvii), and Table 9)

- 6.10 For Emission Points AA-004, AA-005, and AA-006, the permittee shall develop and submit a detailed report of all applicable requirements of 40 CFR 60, Subpart IIII, and 40 CFR 63, Subpart ZZZZ, including limitations, notification, monitoring, testing, reporting, and recordkeeping no later than 30 days from the certification of construction date. (Ref.: 11 Miss. Admin. Code Pt. 2, R.2.2.B(11).)

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