

STATE OF MISSISSIPPI AND FEDERALLY ENFORCEABLE AIR POLLUTION CONTROL PERMIT

**TO OPERATE AIR EMISSIONS EQUIPMENT AT A
SYNTHETIC MINOR SOURCE**

THIS CERTIFIES THAT

Olin Winchester LLC
411 County Road 101
Oxford, Mississippi
Lafayette County

has been granted permission to operate air emissions equipment in accordance with emission limitations, monitoring requirements and conditions set forth herein. This permit is issued in accordance with the Federal Clean Air Act and the provisions of the Mississippi Air and Water Pollution Control Law (Section 49-17-1 et. seq., Mississippi Code of 1972), the regulations and standards adopted and promulgated thereunder, and the State Implementation Plan for operating permits for synthetic minor sources.

MISSISSIPPI ENVIRONMENTAL QUALITY PERMIT BOARD

AUTHORIZED SIGNATURE
MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY

Issued: _____

Permit No.: 1420-00029

Effective Date: As specified herein.

Expires: [No more than 5 years from the issue date.]

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. This permit is a Federally-approved permit to operate a synthetic minor source as described in 11 Miss. Admin. Code Pt. 2, R. 2.4.D.
(Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.4.D.)
3. Any activities not identified in the application are not authorized by this permit.
(Ref.: Miss. Code Ann. 49-17-29 1.b)
4. 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 constructing or operating without a valid permit.
(Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.2.B(5).)
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 this 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 issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.
(Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.2.B(15)(c).)
8. The permittee shall allow the Mississippi Department of Environmental Quality Office of Pollution Control and the Mississippi Environmental Quality Permit Board and/or their authorized representatives, upon the 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 emission.
(Ref.: Miss. Code Ann. 49-17-21)

9. 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)
10. The provisions of this permit are severable. If any provision of this permit, or the application of any provision of this 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).)
11. This permit does not authorize a modification as defined in Regulation 11 Miss. Admin. Code Pt. 2, Ch.2., "Permit Regulations for the Construction and/or Operation of Air Emission Equipment." A modification may require a Permit to Construct and a modification of this permit. Modification is defined as "Any physical change in or change in the method of operation of a facility which increases the actual emissions or the potential uncontrolled emissions of any air pollutant subject to regulation under the Federal Act emitted into the atmosphere by that facility or which results in the emission of any air pollutant subject to regulation under the Federal Act into the atmosphere not previously emitted. A physical change or change in the method of operation shall not include:
 - a. Routine maintenance, repair, and replacement;
 - b. Use of an alternative fuel or raw material by reason of an order under Sections 2(a) and (b) of the Federal Energy Supply and Environmental Coordination Act of 1974 (or any superseding legislation) or by reason of a natural gas curtailment plan pursuant to the Federal Power Act;
 - c. Use of an alternative fuel by reason of an order or rule under Section 125 of the Federal Act;
 - d. Use of an alternative fuel or raw material by a stationary source which:
 - (1) The source was capable of accommodating before January 6, 1975, unless such change would be prohibited under any federally enforceable permit condition which was established after January 6, 1975, pursuant to 40 CFR 52.21 or under regulations approved pursuant to 40 CFR Part 51, Subpart I, or 40 CFR 51.166; or
 - (2) The source is approved to use under any permit issued under 40 CFR 52.21 or under regulations approved pursuant to 40 CFR Part 51, Subpart I, or 40 CFR 51.166;
 - e. An increase in the hours of operation or in the production rate unless such change would be prohibited under any federally enforceable permit condition which was established after January 6, 1975, pursuant to 40 CFR 52.21 or under regulations approved pursuant to 40 CFR Part 51, Subpart I or 40 CFR 51.166; or
 - f. Any change in ownership of the stationary source.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.1.C(15).)

B. GENERAL OPERATIONAL CONDITIONS

1. Should the Executive Director of the Mississippi Department of Environmental Quality declare an Air Pollution Emergency Episode, the permittee will be required to operate in accordance with the permittee's previously approved Emissions Reduction Schedule or, in the absence of an approved schedule, with the appropriate requirements specified in Regulation, 11 Miss. Admin. Code Pt. 2, "Regulations for the Prevention of Air Pollution Emergency Episodes" for the level of emergency declared.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.10.)

2. Any diversion from or bypass of collection and control facilities is prohibited, 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.)

3. Solids removed in the course of control of air emissions shall 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 1.a(i and ii))

4. Except as otherwise specified herein, the permittee shall be subject to the following provisions with respect to upsets, startups, and shutdowns.

a. Upsets

- (1) For an upset defined in 11 Miss. Admin. Code Pt. 2, R. 1.2., the Commission may pursue an enforcement action for noncompliance with an emission standard or other requirement of an applicable rule, regulation, or permit. In determining whether to pursue enforcement action, and/or the appropriate enforcement action to take, the Commission may consider whether the source has demonstrated through properly signed contemporaneous operating logs or other relevant evidence the following:

- (i) An upset occurred and that the source can identify the cause(s) of the upset;
- (ii) The source was at the time being properly operated;
- (iii) During the upset the source took all reasonable steps to minimize levels of emissions that exceeded the emission standard or other requirement of an applicable rule, regulation, or permit;
- (iv) That within 5 working days of the time the upset began, the source submitted a written report to the Department describing the upset, the steps taken to mitigate excess emissions or any other noncompliance, and the corrective actions taken and;
- (v) That as soon as practicable but no later than 24 hours of becoming aware of an upset that caused an immediate adverse impact to human health or the environment beyond the source boundary or

caused a general nuisance to the public, the source provided notification to the Department.

- (2) In any enforcement proceeding by the Commission, the source seeking to establish the occurrence of an upset has the burden of proof.
- (3) This provision is in addition to any upset provision contained in any applicable requirement.
- (4) These upset provisions apply only to enforcement actions by the Commission and are not intended to prohibit EPA or third party enforcement actions.

b. Startups and Shutdowns (as defined by 11 Miss. Admin. Code Pt. 2, R. 1.2.)

- (1) Startups and shutdowns are part of normal source operation. Emission limitations apply during startups and shutdowns unless source specific emission limitations or work practice standards for startups and shutdowns are defined by an applicable rule, regulation, or permit.
- (2) Where the source is unable to comply with existing emission limitations established under the State Implementation Plan (SIP) and defined in this regulation, 11 Mississippi Administrative Code, Part 2, Chapter 1, the Department will consider establishing source specific emission limitations or work practice standards for startups and shutdowns. Source specific emission limitations or work practice standards established for startups and shutdowns are subject to the requirements prescribed in 11 Miss. Admin. Code Pt. 2, R. 1.10.B(2)(a) through (e).
- (3) Where an upset as defined in Rule 1.2 occurs during startup or shutdown, see the upset requirements above.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 1.10.)

5. 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).)

C. PERMIT RENEWAL / MODIFICATION / TRANSFER / TERMINATION

1. For renewal of this permit, the applicant shall make application not less than one-hundred eighty (180) days prior to the expiration date of the permit substantiated with current emissions data, test results or reports or other data as deemed necessary by the Mississippi Environmental Quality Permit Board. If the applicant submits a timely and complete application pursuant to this paragraph and the Permit Board, through no fault of the applicant, fails to act on the application on or before the expiration date of the existing permit, the applicant shall continue to operate the stationary source under the terms and conditions of the expired permit, which shall remain in effect until final action on the application is taken by the Permit Board. Permit expiration terminates the source's ability to operate unless a timely and complete renewal application has been submitted.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.8.)

2. 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).)

3. 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).)

4. After notice and opportunity for a hearing, this permit may be modified, suspended, or revoked in whole or in part during its term for cause including, but not limited to:
 - a. Persistent violation of any 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.)

5. This permit may only be transferred upon approval of the Mississippi Environmental Quality Permit Board.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.16.B.)

SECTION 2 EMISSION POINT DESCRIPTION

The permittee is authorized to operate air emissions equipment, as described in the following table.

Emission Point	Description
AA-000	Facility-Wide [Olin Winchester, LLC]
AA-001	Billet System [includes 4 sow melt kettles, 4 billet melt kettle furnaces, 4 tundishes, 4 hydron continuous billet casters; the emissions from all units are routed to 4 baghouses]
AA-002	Bonded Bullet Operations [includes 4 lines (BB-1 to BB-4); emissions are from all lines are routed to a common baghouse]
AA-004	Cobmeal Bullet Tumblers with Solvent [includes 7 tumblers (3 with filter collection systems and 4 without pollution control devices)]
AA-005	Cobmeal Bullet Tumblers without Solvent [includes 4 tumblers]
AA-008	Ballistic Test Ranges [includes Rimfire ranges (R-1 to R-4) and Centerfire ranges (C-1 to C-8)]
AA-009	Baird Tubs for Brass Cleaning [includes 66 tubs]
AA-010	Extrusion Presses and Tumblers [includes 7 presses (EP-1 to EP-7) and 7 tumblers (EPT-1 to EPT-7)]
AA-011	Progressive Die Press [includes 14 presses (PDP-1 to PDP-14)]
AA-012	Bulk Sulfuric Acid Storage Tanks [includes two 4,500-gallon tanks (SAT-1 and SAT-2)]
AA-013	Lime Storage Silo (S-1) [emissions are routed through a fabric filter dust collector (FF-1)]
AA-014	Metallic Shell-Case Polishers [includes 2 polishers]
AA-015	Cooling Towers [includes 4 towers (CT-1 to CT-4)]
AA-016	Spin Prime Process [includes 20 lines]
AA-017	Carton and Can Printers [includes 2 units]
AA-018	High Explosives Production Line No. 1
AA-019	High Explosives Production Line No. 2
AA-020	Vibratory Polisher
AA-021	Cement Tumbler
AA-022	Draw Operations
AA-023	Buckshot Tumbler without Solvent
AB-000	Fuel Burning Equipment
AB-001	10.2 MMBTU / Hour Natural Gas-Fired Package Boiler B-1 [manufactured in 2011]
AB-002	10.2 MMBTU / Hour Natural Gas-Fired Package Boiler B-2 [manufactured in 2011]
AB-003	16.3 MMBTU / Hour Natural Gas-Fired Package Boiler B-3
AB-004	2.0 MMBTU / Hour (150 kW) Natural Gas-Fired Emergency Generator Engine [manufactured in 2011]
AB-005	0.48336 MMBTU / Hour (190 hp / 142 kW) Diesel-Fired Emergency Fire Pump Engine [manufactured in 2025]
AB-006	Facility-Wide Natural Gas-Fired Process Heaters, Dryers, Boilers, Ovens, and Furnaces [total heat input: 28.96 MMBTU / hour; manufactured in 2011]
AB-007	Facility-Wide Natural Gas-Fired Space Heaters [used for climate control; total heat input: 13.73 MMBTU / hour; manufactured in 2011]

Emission Point	Description
AB-008	0.85 MMBTU / Hour (250 kW) Diesel-Fired Emergency Wastewater Generator Engine [manufactured in 2008]
AC-000	Coating, Solvent Usage, and/or Degreasing Operations
AC-001	Power Tool Loaders [includes 4 loading complexes (LC-1 to LC-4)]
AC-002	Gauge and Weigh Lines [includes 26 lines (GW-1 to GW-26)]
AC-003	Cappers [includes 85 units (CAP-1 to CAP-85)]
AC-004	50 Caliber Cappers [includes 3 units (50CA-1 to 50CA-3)]
AC-005	Tip ID Process (includes 4 lines (TIP-1 to TIP-4)]
AC-007	Bullet Swaging Process [includes 50 units (SW-1 to SW-50)]
AC-008	Cleaning Solvent Usage Activities
AC-009	Deprime Operations [includes: 1 tank (DP-1)]
AC-010	Steel Headers [includes 6 units]

SECTION 3 EMISSION LIMITATIONS AND STANDARDS

Emission Point(s)	Applicable Requirement	Condition Number	Pollutant / Parameter	Limitation / Standard
AA-000 (Facility-Wide)	11 Miss. Admin. Code, Pt. 2, R. 2.2.B(10)., as established in Permit to Construct issued February 28, 2011 (Title V Avoidance Limits)	3.1	VOCs	≤ 99.0 tpy (Rolling 12-Month Total)
		3.2	HAPs	≤ 9.9 tpy (Individual) ≤ 24.9 tpy (Total) (Rolling 12-Month Totals)
	11 Miss. Admin. Code Pt. 2, R. 1.3.A.	3.3	Opacity (smoke)	$\leq 40\%$
	11 Miss Admin. Code Pt. 2, R. 1.3.B.	3.4	Opacity	
	11 Miss. Admin. Code Pt. 2, R. 1.3.F(1).	3.5	PM (filterable)	$E = 4.1 \times p^{0.67}$
AA-013	11 Miss. Admin. Code Pt. 2, R. 2.2.B(10).	3.6	PM (filterable)	Operational Requirements (Fabric Filter)
AB-000	11 Miss Admin. Code Pt. 2, R. 1.3.D(1)(a).	3.7	PM	≤ 0.6 lb/MMBTU
AB-001 AB-002 AB-003	11 Miss. Admin. Code Pt. 2, R. 1.4.A(1).	3.8	SO ₂	≤ 4.8 lb/MMBTU
	11 Miss. Admin. Code Pt. 2, R. 1.3.D(1)(b).	3.9	PM	$E = 0.8808 \times I^{-0.1667}$
	40 CFR Part 60, Subpart Dc (Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units)	3.10	SO ₂	Applicability
	40 CFR 60.40c(a), Subpart Dc			
AB-004 AB-005 AB-008	40 CFR Part 63, Subpart ZZZZ (National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines) 40 CFR 63.6585(c), 63.6590(a)(2)(iii) and (c)(1), and Table 8, Subpart ZZZZ	3.11	HAPs	Applicability
	40 CFR 60.4211(f)(1) – (3), Subpart IIII 40 CFR 60.4243(d)(1) – (3), Subpart JJJJ	3.12	Operational Requirements	≤ 50 Hours Per Calendar Year – Non Emergency Operations ≤ 100 Hours Per Calendar Year – Maintenance and Testing

Emission Point(s)	Applicable Requirement	Condition Number	Pollutant / Parameter	Limitation / Standard
AB-004	40 CFR Part 60, Subpart JJJJ (Standards of Performance for Stationary Spark Ignition Internal Combustion Engines) 40 CFR 60.4230(a)(4)(iv), Subpart JJJJ	3.13	NO _x CO VOCs	Applicability
	40 CFR 60.4233(e), 60.4234, and Table 1, Subpart JJJJ	3.14	NO _x	≤ 2.0 Grams / Horsepower-Hour
			CO	≤ 4.0 Grams / Horsepower-Hour
			VOCs	≤ 1.0 Grams / Horsepower-Hour
	40 CFR 60.4243(e), Subpart JJJJ	3.15	Alternative Fuel Usage	Combust Propane for 100 Hours / Calendar Year
AB-005 AB-008	40 CFR Part 60, Subpart IIII (Standards of Performance for Stationary Compression Ignition Internal Combustion Engines) 40 CFR 60.4200(a)(2), Subpart IIII	3.16	NMHC + NO _x CO PM	Applicability
	40 CFR 60.4205(b), 60.4202(a)(2), 60.4202(c), 60.4206, and Table 4, Subpart IIII, and Table 3 of Appendix I, 40 CFR 1039	3.17	NMHC + NO _x	≤ 4.0 Grams / Kilowatt-Hour (or 3.0 Grams / Horsepower-Hour)
			CO	≤ 3.5 Grams / Kilowatt-Hour (or 2.6 Grams / Horsepower-Hour)
			PM	≤ 0.20 Grams / Kilowatt-Hour (or 0.15 Grams / Horsepower-Hour)
	40 CFR 60.4207(b), Subpart IIII	3.18	Fuel Requirement	≤ 15 ppm Sulfur Content ≥ 40 Cetane Index or ≤ 35% Aromatic Content (by volume)
AB-008	40 CFR 60.4205(b), 60.4202(a)(2), Subpart IIII, and 40 CFR 1039.105	3.19	Opacity (smoke)	≤ 20% during acceleration
				≤ 15% during lugging mode
				≤ 50% during the peaks of either acceleration or lugging mode

3.1 For Emission Point AA-000 (Facility-Wide), the permittee shall limit the emission of volatile organic compounds (VOC) to no more than 99.0 tons per year (tpy) as determined on a rolling 12-month total basis.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.2.B(10)., as established in Permit to Construct issued February 28, 2011)

3.2 For Emission Point AA-000 (Facility-Wide), the permittee shall limit the emission of hazardous air pollutants (HAPs) to no more than 9.9 tons per year (tpy) of any individual

HAP and no more than 24.9 tpy of all combined HAPs as determined on a rolling 12-month total basis.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.2.B(10)., as established in Permit to Construct issued February 28, 2011)

- 3.3 For Emission Point AA-000 (Facility-Wide), except as otherwise specified herein, the permittee shall not cause or allow the emission of smoke from a point source into the open air that exceeds forty percent (40%) opacity from any process on-site. Start-up operations may produce emissions that exceed 40% opacity for up to fifteen (15) minutes per start-up in any one hour and not to exceed three (3) start-ups per stack in any twenty-four (24) hour period.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 1.3.A.)

- 3.4 For Emission Point AA-000 (Facility-Wide), unless otherwise specified herein, the permittee shall not cause, allow, or permit the discharge into the ambient air (from any point source or emissions) any air contaminant of such opacity as to obscure an observer's view to a degree in excess of forty percent (40%) opacity. This shall not apply to vision obscuration caused by uncombined water droplets.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 1.3.B.)

- 3.5 For Emission Point AA-000 (Facility-Wide), the permittee shall not cause, permit, or allow the emission of particulate matter (PM) in total quantities in any one (1) hour from any manufacturing process (which includes any associated stacks, vents, outlets, or combination thereof) to exceed the amount determined by the following 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).)

- 3.6 For Emission Point AA-013, the permittee shall at all times operate the fabric filter dust collector during active loading operations to minimize the emission of filterable particulate matter (PM). In the event the fabric filter malfunctions, the permittee shall cease loading activities until the fabric filter dust collector returns to service.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.2.B(10).)

- 3.7 For Emission Point AB-000, the maximum permissible emission of ash and/or particulate matter (PM) from fossil fuel burning installations of less than 10 million BTU (MMBTU) per hour heat input shall not exceed 0.6 pounds per MMBTU per hour heat input.

(Ref.: 11 Miss. Admin. Code Pt. 3, R.1.3.D(1)(a).)

- 3.8 For Emission Points AB-001, AB-002, AB-003, except as otherwise specified or limited herein, the maximum discharge of sulfur oxides (SO_x) from any fuel burning installation in which the fuel is burned primarily to produce heat or power by indirect heat transfer shall not exceed 4.8 pounds (measured as sulfur dioxide or SO₂) per million BTU (MMBTU) heat input.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 1.4.A(1).)

- 3.9 For Emission Points AB-001, AB-002, AB-003, the maximum permissible emission of ash and/or particulate matter (PM) from each unit shall not exceed a rate as determined by the following relationship:

$$E = 0.8808 \times I^{-0.1667}$$

Where “E” is the emission rate in pounds per million BTU (MMBTU) per hour heat input, and “I” is the heat input in millions of BTU per hour.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 1.3.D(1)(b).)

- 3.10 For Emission Points AB-001, AB-002, AB-003, the permittee is subject to and shall comply with the applicable provisions of 40 CFR 60, Subpart Dc, Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units, and 40 CFR 60, Subpart A, General Provisions.

(Ref.: 40 CFR 60.40c(a), Subpart Dc)

- 3.11 For Emission Points AB-004, AB-005, and AB-008, the permittee is subject to and shall comply with the applicable provisions of 40 CFR 63, Subpart ZZZZ, National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (RICE), and 40 CFR 60, Subpart A, General Provisions, as established in Table 8 of Subpart ZZZZ.

For the purpose of this permit, stationary RICE is classified as “new” if construction commenced on/after June 12, 2006. For stationary RICE that are new, the permittee shall comply with Subpart ZZZZ by complying with the applicable provisions of 40 CFR 60, Subpart IIII, or 40 CFR 60, Subpart JJJJ. No further requirements apply for such engines under Subpart ZZZZ.

(Ref.: 40 CFR 63.6585(c), 63.6590(a)(2)(iii) and (c)(1), and Table 8, Subpart ZZZZ)

- 3.12 For Emission Points AB-004, AB-005, and AB-008, any operation of an engine for any reason other than emergency operation, maintenance and testing, and operation in non-emergency situations for fifty (50) hours per year is prohibited. If an engine is not operated in accordance with paragraphs (a) through (c) of this condition, the engine will not be considered an emergency engine under the referenced regulation and shall meet all requirements for a corresponding non-emergency engine.

- (a) There is no time limit on the use of an engine in emergency situations.
- (b) The permittee may operate an engine for the purpose of maintenance checks and readiness testing, provided that the tests are recommended by federal, state or local government, the manufacturer, the vendor, or the insurance company accompanied with the engine. Maintenance checks and readiness testing of an engine is limited to a maximum of 100 hours per calendar year. The permittee may petition the MDEQ for approval of additional hours to be used for maintenance checks and readiness testing. However, a petition is not required if the permittee maintains records indicating that Federal, State, or local standards require maintenance and testing of the engine beyond 100 hours per calendar year.
- (c) The permittee may operate an engine 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. The 50 hours per calendar year for non-emergency situations cannot be used for peak shaving or non-emergency demand response, or to generate income for a facility to supply power to an electric grid or otherwise supply power as part of a financial arrangement with another entity.

(Ref.: 40 CFR 60.4211(f)(1) – (3), Subpart IIII, and 40 CFR 60.4243(d)(1) – (3), Subpart JJJJ)

- 3.13 For Emission Point AB-004, the permittee is subject to and shall comply with the applicable provisions of 40 CFR 60, Subpart JJJJ, Standards of Performance for Stationary Spark Ignition Internal Combustion Engines, and 40 CFR 60, Subpart A, General Provisions, as established in Table 3 of Subpart JJJJ.

(Ref.: 40 CFR 60.4230(a)(4)(iv) and Table 3, Subpart JJJJ)

- 3.14 For Emission Point AB-004, the permittee shall comply with the following emission standards:

- (a) Nitrogen Oxides (NO_x): 2.0 grams per horsepower-hour (g/hp-hr);
- (b) Carbon Monoxide (CO); 4.0 g/hp-hr; and
- (c) Volatile Organic Compounds (VOC): 1.0 g/hp-hr.

The permittee shall comply with the emission standards by purchasing a certified engine. The permittee shall operate and maintain the engine in such a manner to achieve the noted emission standard over the entire life of the engine. Additionally, the air-to-fuel ratio controller must be maintained and operated appropriately in order to ensure proper operation of the engine and control device to minimize emissions at all times.

(Ref.: 40 CFR 60.4233(e), 60.4234, and Table 1, Subpart JJJJ)

- 3.15 For Emission Point AB-004, the permittee may operate the engine with propane as an alternative fuel for a maximum of one hundred (100) hours per calendar year only during emergency operations.

(Ref.: 40 CFR 60.4243(e), Subpart JJJJ)

- 3.16 For Emission Points AB-005 and AB-008, the permittee is subject to and shall comply with all applicable provisions of 40 CFR 60, Subpart IIII, Standards of Performance for Stationary Compression Ignition Internal Combustion Engines, and 40 CFR 60, Subpart A, General Provisions, as established in Table 8 of Subpart IIII.

(Ref.: 40 CFR 60.4200(a)(2), Subpart IIII)

- 3.17 For Emission Points AB-005 and AB-008, the permittee shall comply with the following emission standards:

- (a) Non-methane Hydrocarbons + Nitrogen Oxides (NMHC + NO_x): 4.0 grams per kilowatt-hour (g/kW-hr);
- (b) Carbon Monoxide (CO): 3.5 g/kW-hr; and
- (c) Particulate Matter (PM): 0.20 g/kW-hr.

3.18 For Emission Points AB-005 and AB-008, the permittee shall only combust diesel fuel that meet the following requirements (on a per-gallon basis):

- (a) A maximum sulfur content of fifteen (15) ppm; and
- (b) A minimum cetane index of forty (40) or a maximum aromatic content of thirty-five (35) volume percent (vol.%).

(Ref.: 40 CFR 60.4207(b), Subpart IIII)

3.19 For Emission Point AB-008, the permittee shall not discharge into the atmosphere any smoke exhaust that exceeds the following opacity standards:

- (a) Twenty percent (20%) during acceleration mode;
- (b) Fifteen percent (15%) during the lugging mode; and
- (c) Fifty percent (50%) during the peaks in either the acceleration or lugging modes.

The permittee shall comply with the emission standards by purchasing a certified engine. The permittee shall operate and maintain the engine in such a manner to achieve the noted emission standard over the entire life of the engine.

(Ref.: 40 CFR 60.4205(b), 60.4202(a)(2), 60.4211(c), and 60.4206, Subpart IIII, and Table 3 of Appendix I, 40 CFR 1039)

SECTION 4
WORK PRACTICES

Emission Point	Applicable Requirement	Condition Number(s)	Pollutant/Parameter	Work Practice
AB-005 AB-008	40 CFR 60, Subpart IIII (Standards of Performance for Stationary Compression Ignition Internal Combustion Engines 40 CFR 60.4211(a), Subpart IIII	4.1	NMHC + NO _x CO PM	Best Management Practices

- 4.1 For Emission Points AB-005 and AB-008, the permittee shall adhere to the following work practices:
- (a) Operate and maintain each engine and control device (if any) 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 1068 (as applicable).
- (Ref.: 40 CFR 60.4211(a), Subpart IIII)

SECTION 5 MONITORING AND RECORDKEEPING REQUIREMENTS

Emission Point(s)	Applicable Requirement	Condition Number	Pollutant / Parameter	Monitoring / Recordkeeping Requirement
AA-000 (Facility-Wide)	11 Miss. Admin. Code Pt. 2, R. 2.9.	5.1	Recordkeeping	Maintain Records For a Minimum of Five (5) Years
	11 Miss. Admin. Code Pt. 2, R. 2.2.B(11).	5.2	VOC HAP	Monitor Information on Coatings, Adhesives, Solvents, or Other VOC- or HAP-Containing Materials
		5.3		Record Information on Coatings, Adhesives, Solvents, or Other VOC- or HAP-Containing Materials
		5.4	PM	Perform a Monthly Inspection on Each Control Device
AA-001 AA-002 AA-004 AA-013		5.5		Monitor the Pressure Drop Across Each Control Device Weekly
AB-001 AB-002 AB-003	40 CFR 60.48c(g)(2), Subpart Dc	5.6	SO ₂	Monitor the Volume of Fuel Combusted (Monthly)
AB-004 AB-005 AB-008	40 CFR 60.4209(a) and 60.4214(b), Subpart IIII 40 CFR 60.4237 and 60.4245(b), Subpart JJJJ 11 Miss. Admin. Code Pt. 2, R. 2.2.B(11).	5.7	Emergency Engine Status	Record Hours of Operation (Emergency and Non-Emergency)
	40 CFR 60.4214(a)(2), Subpart IIII 40 CFR 60.4245(a), Subpart JJJJ	5.8	NO _x NMHC + NO _x CO PM VOCs	Recordkeeping Requirements
AB-004	40 CFR 60.4243(a)(2)(ii), Subpart JJJJ	5.9	NO _x CO VOCs	Compliance Demonstration Actions (if Engine is Not Installed, Operated, or Maintained According to Specifications)
AB-005 AB-008	40 CFR 60.4211(g)(2), Subpart IIII	5.10	NHMC + NO _x CO PM	Compliance Demonstration Actions (if Engine is Not Installed, Operated, or Maintained According to Specifications)
AC-003 AC-004	11 Miss. Admin. Code Pt. 2, R. 2.2.B(11).	5.11	Methylene Chloride	Documentation of discontinuance of methylene chloride

- 5.1 The permittee shall retain all required records, monitoring data, supporting information and reports 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 strip-chart recordings or other data for continuous monitoring instrumentation, and copies of all reports required by this permit. Copies of such records shall be submitted to MDEQ as required by Applicable Rules and Regulations or this permit upon request.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.9.)

- 5.2 For Emission Point AA-000 (Facility-Wide), the permittee shall determine for each coating, adhesive, solvent, or other VOC and/or HAP containing material used:

- (a) The identification of each coating, adhesive, solvent, or other VOC and/or HAP containing material and the total gallons of each coating, adhesive, solvent, or other VOC and/or HAP containing material used on a monthly basis and for each consecutive 12-month period on a rolling basis.
- (b) The VOC and/or HAP content of each coating, adhesive, solvent, or other VOC and/or HAP containing material used. A description of the method used to determine the VOC and/or HAP content shall accompany this data. The permittee may utilize data supplied by the manufacturer, or analysis of VOC content by EPA Test Method 24 and/or EPA Test Method 24A, or analysis of HAP content by EPA Test Method 311.
- (c) The density of each coating, adhesive, solvent, or other VOC and/or HAP containing material.
- (d) The permittee shall use the given parameters to determine VOC, individual HAP, and total HAP emissions on a monthly basis and for each consecutive 12-month period on a rolling basis.

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

- 5.3 For Emission Point AA-000 (Facility-Wide), the permittee shall maintain sufficient records to document the following information:

- (a) The identification of each coating, adhesive, solvent, or other VOC and/or HAP containing material and the total gallons of each coating, adhesive, solvent, or other VOC and/or HAP containing material used on a monthly basis and in each consecutive 12-month period.
- (b) The VOC and/or HAP content of each coating, adhesive, solvent, or other VOC and/or HAP containing material used with a description of the method used to determine the VOC and/or HAP content.
- (c) The density of each coating, adhesive, solvent, or other VOC and/or HAP containing material used.
- (d) The total VOC, individual HAP, and total HAP emission rate in tons per year on a monthly basis and for each consecutive 12-month period on a rolling basis.

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

- 5.4 For Emission Points AA-001, AA-002, AA-004, and AA-013, the permittee shall perform an inspection each control device on a monthly basis. If any problem is noted during an inspection, the permittee shall conduct the necessary maintenance activities to ensure operation of a control device as originally designed.

Additionally, preventative maintenance shall be performed as necessary to maintain proper operation of the control device and the permittee shall maintain on-hand at all times sufficient equipment necessary to repair the device.

The permittee shall maintain documentation that details the date / time each inspection is performed, any noted problem experienced, any maintenance (either corrective or preventative) performed to return a device to operation as originally designed, and periods of time (including the date and duration)in which a control device is non-operational.

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

- 5.5 For Emission Points AA-001, AA-002, and AA-004, the permittee shall monitor and record the differential pressure drop (in inches of water) across each control device weekly during active corresponding operations. If a monitored recording is outside the pressure drop range outlined by the manufacturer's specifications / recommendations, the permittee shall perform and record the necessary maintenance to return the control device to normal operation.

Additionally, the permittee shall maintain documentation for each control device that details the recommended differential pressure drop range specified by the respective manufacturer.

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

- 5.6 For Emission Points AB-001, AB-002, and AB-003, the permittee shall record and maintain records of the amount of each fuel combusted (in cubic feet or gallons) during each calendar month.

(Ref.: 40 CFR 60.48(c), Subpart Dc)

- 5.7 For Emission Points AB-004, AB-005, and AB-008, the permittee shall monitor and record (via a non-resettable hour meter) the hours of operation on a monthly basis for both emergency and non-emergency service. Additionally, the permittee shall detail what classified each occurrence as either an emergency or a non-emergency.

(Ref.: 40 CFR 60.4214(b) and 60.4209(a), Subpart IIII, 40 CFR 60.4234 and 60.4254(b), Subpart JJJJ, and 11 Miss. Admin. Code Pt. 2, R. 2.2.B(11).)

- 5.8 For Emission Points AB-004, AB-005, and AB-008, the permittee shall maintain records that detail the following information:

- (a) All notifications submitted to comply with either Subpart IIII or Subpart JJJJ (including all documentation that supports a notification);
- (b) Any maintenance conducted on an engine; and
- (c) Documentation from the manufacturer that an engine is certified to meet the applicable emission standards specified in Conditions 3.14, 3.17, and 3.19.

(Ref.: 40 CFR 60.4214(a)(2), Subpart IIII, and 40 CFR 60.4245(a), Subpart JJJJ)

- 5.9 For Emission Point AB-004, if the permittee does not operate and maintain the engine in accordance with the manufacturer's emission-related written instructions or the permittee changes emission-related settings in a way that is not permitted by the manufacturer, the permittee shall demonstrate compliance with the emission standards specified in Condition 3.14 through the following actions:
- (a) Keep a maintenance plan;
 - (b) Maintain records of conducted maintenance;
 - (c) Maintain and operate the engine in a manner consistent with good air pollution control practice for minimizing emissions (to the extent practicable); and
 - (d) Conduct an initial performance test in accordance with 40 CFR 60.4244, Subpart JJJJ within one (1) year of engine start-up.

(Ref.: 40 CFR 60.4243(a)(2)(ii), Subpart JJJJ)

- 5.10 For Emission Points AB-005 and AB-008, if the permittee does not operate and maintain the engine according to the manufacturer's emission-related written instructions, or the permittee changes emission-related settings in a way that is not permitted by the manufacturer, the permittee shall demonstrate compliance through the following actions:
- (a) Keep a maintenance plan and records of conducted maintenance and must (to the extent practicable) maintain and operate the engine in a manner consistent with good air pollution control practice for minimizing emissions; and
 - (b) Conduct an initial performance test to demonstrate compliance with the applicable emission standards within one (1) year of start-up, or within one (1) year after each engine is no longer installed, configured, operated, and maintained in accordance with the manufacturer's emission-related written instructions, or within 1 year after the permittee changes emission-related settings in a way that is not permitted by the manufacturer.

(Ref.: 40 CFR 60.4211(g)(2), Subpart IIII)

- 5.11 For Emission Points AC-003 and AC-004, the permittee shall maintain documentation in accordance with Condition 5.1 demonstrating that mouth waterproofing compounds containing methylene chloride are not used at the facility.

(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
AA-000 (Facility-Wide)	11 Miss. Admin. Code Pt. 2, R. 2.2.B(11).	6.1	Report permit deviations within five (5) working days.
	11 Miss. Admin. Code Pt. 2, R. 2.2.B(11).	6.2	Submit certified annual monitoring report.
	11 Miss. Admin. Code Pt. 2, R. 2.2.B(11).	6.3	All documents submitted to MDEQ shall be certified by a Responsible Official.

- 6.1 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(11).)

- 6.2 Except as otherwise specified herein, the permittee shall submit a certified annual synthetic minor monitoring report postmarked no later than 31st of January for the preceding calendar year. This report shall address any required monitoring specified in the permit. All instances of deviations from permit requirements must be clearly identified in the report. Where no monitoring data is required to be reported and/or there are no deviations to report, the report shall contain the appropriate negative declaration.

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

- 6.3 Any document required by this permit to be submitted to the MDEQ shall contain a certification signed by a responsible official stating that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate and complete.

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