

**STATE OF MISSISSIPPI  
AIR POLLUTION CONTROL  
TITLE V PERMIT**

**TO OPERATE AIR EMISSIONS EQUIPMENT**

**THIS CERTIFIES THAT**

North Mississippi Medical Center, Inc.  
830 South Gloster Street  
Tupelo, Lee County, Mississippi

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 Title V of the Federal Clean Air Act (42 U.S.C.A. § 7401 - 7671) and 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.

**Permit Issued: June 2, 2021**

**Modified: January 8, 2025**

**Effective Date: As specified herein.**

**MISSISSIPPI ENVIRONMENTAL QUALITY PERMIT BOARD**

*Becky Simonson*

**AUTHORIZED SIGNATURE**

**MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY**

**Expires: May 31, 2026**

**Permit No.: 1540-00026**

## **TABLE OF CONTENTS**

SECTION 1. GENERAL CONDITIONS.....	3
SECTION 2. EMISSION POINTS & POLLUTION CONTROL DEVICES.....	133
SECTION 3. EMISSION LIMITATIONS & STANDARDS .....	16
SECTION 4. COMPLIANCE SCHEDULE .....	26
SECTION 5. MONITORING, RECORDKEEPING & REPORTING REQUIREMENTS .....	27
SECTION 6. ALTERNATIVE OPERATING SCENARIOS .....	35
SECTION 7. TITLE VI REQUIREMENTS.....	36

### **APPENDIX A LIST OF ABBREVIATIONS USED IN THIS PERMIT**

#### **OTHER IMPORTANT DOCUMENTS:**

**40 CFR PART 60, SUBPART Dc -- STANDARDS OF PERFORMANCE FOR SMALL COMMERCIAL-INDUSTRIAL-INSTITUTIONAL STEAM GENERATING UNITS**

**40 CFR PART 60, SUBPART III – STANDARDS OF PERFORMANCE FOR STATIONARY COMPRESSION IGNITION INTERNAL COMBUSTION ENGINES**

**40 CFR PART 63, SUBPART WWWW – NATIONAL EMISSION STANDARDS FOR HOSPITAL ETHYLENE OXIDE STERILIZERS**

**40 CFR PART 63, SUBPART JJJJJJ – NATIONAL EMISSION STANDARDS FOR INDUSTRIAL, COMMERCIAL, AND INSTITUTIONAL BOILERS FROM AREA SOURCES**

**40 CFR PART 63, SUBPART ZZZZ – NATIONAL EMSSION STANDARDS FOR RECIPROCATING INTERNAL COMBUSTION ENGINES**

## SECTION 1. GENERAL CONDITIONS

1.1 The permittee must comply with all conditions of this permit. Any permit non-compliance constitutes a violation of the Federal Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.A(6)(a).)

1.2 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.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.A(6)(b).)

1.3 The permit and/or any part thereof may be modified, revoked, reopened, and reissued, or terminated for cause. 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. 6.3.A(6)(c).)

1.4 Prior to its expiration, this permit may be reopened in accordance with the following provisions:

(a) This permit shall be reopened and revised under any of the following circumstances:

(1) Additional applicable requirements under the Federal Act become applicable to a major Title V source with a remaining permit term of three (3) or more years. Such a reopening shall be completed no later than eighteen (18) months after promulgation of the applicable requirement. No such reopening is required if the effective date of the requirement is later than the date on which the permit is due to expire, unless the original permit or any of its terms and conditions has been extended.

(2) Additional requirements (including excess emissions requirements) become applicable to an affected source under the acid rain program. Upon approval by the Administrator, excess emissions offset plans shall be deemed to be incorporated into the permit.

(3) The Permit Board or EPA determines that the permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the permit.

(4) The Administrator or the Permit Board determines that the permit must be revised or revoked to assure compliance with the applicable requirements.

- (b) Proceedings to reopen and issue a permit shall follow the same procedures as apply to initial permit issuance and shall affect only those parts of the permit for which cause to reopen exists. Such reopening shall be made as expeditiously as practicable.
- (c) Reopenings shall not be initiated before a notice of such intent is provided to the Title V source by the Department of Environmental Quality (DEQ) at least thirty (30) days in advance of the date that the permit is to be reopened, except that the Permit Board may provide a shorter time period in the case of an emergency.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.4.G.)

- 1.5 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 permittee or, for information claimed to be confidential, the permittee shall furnish such records to 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. 6.3.A(6)(e).)

- 1.6 The permit does not convey any property rights of any sort, or any exclusive privilege.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.A(6)(d).)

- 1.7 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. 6.3.A(5).)

- 1.8 The permittee shall pay to the DEQ an annual fee based on a fee schedule established by the Mississippi Commission on Environmental Quality (i.e., the "Commission"). The fee schedule shall be set each year by order of the Commission in accordance with the procedure outlined in Regulation 11 Miss. Admin. Code Pt. 2, Ch. 6.

- (a) A portion of the fee shall be based on the permittee's annual quantity of emissions. The permittee shall elect for "actual emissions" or "allowable emissions" to be used in determining the annual quantity of emissions unless the Commission determines by order that the method chosen by the applicant for calculating actual emissions fails to reasonably represent actual emissions.
  - (i) "Actual emissions" shall be calculated using emission monitoring data or direct emissions measurements for the pollutant(s); mass balance calculations such as the amounts of the pollutant(s) entering and leaving process equipment and where mass balance calculations can be supported by direct

measurement of process parameters, such direct measurement data shall be supplied; published emission factors such as those relating release quantities to throughput or equipment type (e.g., air emission factors); or other approaches such as engineering calculations (e.g., estimating volatilization using published mathematical formulas) or best engineering judgments where such judgments are derived from process and/or emission data which supports the estimates of maximum actual emission.

- (ii) “Allowable emissions” are those emissions limited by this permit as well as those emissions not expressly limited by this permit but otherwise allowed by this permit, as represented in the Title V application.
- (iii) Notwithstanding paragraphs (i) and (ii), a minimum annual fee shall be assessed in accordance with the fee schedule established by the Commission when calculating this portion of the fee.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.6.B(1).)

- (b) A portion of the fee shall be based on the complexity of this permit, as determined by the number of air regulations applicable to the permittee on the date of the fee calculation in accordance with the fee schedule established by the Commission. Only air regulations required to be addressed by this permit may be included in the annual fee schedule.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.6.B(2).)

- (c) By July 1 of each year, the permittee shall submit a completed annual fee reporting form to the DEQ accompanied by all necessary calculations and supporting information to verify actual emissions. If the annual fee reporting form is not filled out completely and accurately or certified in accordance with Regulation 11 Miss. Admin. Code Pt. 2, R. 6.2.E., “allowable emissions” or other information necessary to determine the appropriate annual fee shall be used in the fee calculation.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.6.B(3)(c).)

- (d) If the Commission determines that there is not sufficient information available to the permittee to accurately complete and submit the annual fee reporting form by July 1, but such information becomes available and is submitted to the DEQ after July 1, the fee calculation and assessment may be altered according to the annual fee schedule. No fee actually paid to the DEQ shall be refunded due to a change in the fee calculation.

If a fee is recalculated such that the amount assessed for an annual period is reduced and the permittee has already paid all or a portion of the fee, the revised fee assessment may not be reduced to an amount less than what the permittee has already paid regardless of the results of the recalculation.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.6.B(3)(d).)

- (e) The fee shall be due September 1 of each year. However, the permittee may elect a quarterly payment method of four (4) equal payments with the payments due September 1, December 1, March 1 and June 1. The permittee shall notify the DEQ that the quarterly payment method will be used by September 1.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.6.E(1).)

- (f) If at any time within the year the Commission determines that the information submitted by the permittee is insufficient or incorrect, the DEQ will notify the permittee of the deficiencies and the adjusted fee schedule. Past due fees as a result of the adjusted fee assessment will be due at the time of the next scheduled quarterly payment.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.6.E(1)(b).)

- (g) If an annual fee is not paid within thirty (30) days after the due date, a penalty of ten (10) percent of the amount due shall at once accrue and be added thereto. If the fee is not paid in full (including any interest and penalty within sixty (60) days of the due date), the Permit Board may revoke the permit upon proper notice and hearing as required by law.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.6.E(1)(a).)

- (h) If the permittee disagrees with the calculation or applicability of an annual fee, the permittee may petition the Commission in writing for a hearing in accordance with State Law. Any disputed portion of the fee for which a hearing has been requested will not incur any penalty or interest from and after the receipt by the Commission of the hearing petition.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.6.D.)

- 1.9 No permit revision shall be required under any approved economic incentives, marketable permits, emissions trading and other similar programs or processes for changes that are provided for in this permit.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.A(8).)

- 1.10 Any document required by this permit to be submitted to the DEQ shall contain a certification by a responsible official that states 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. 6.2.E.)

- 1.11 The permittee shall allow the DEQ (or an authorized representative), upon the presentation of credentials and other documents as may be required by law, to perform the following:

- (a) Enter upon the permittee's premises where a Title V source is located or emissions-related activity is conducted, or where records must be kept under the conditions of this permit;
- (b) Have access to and copy (at reasonable times) any records that must be kept under the conditions of this permit;
- (c) Inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit; and
- (d) As authorized by the Federal Act, sample or monitor (at reasonable times) substances or parameters for the purpose of assuring compliance with the permit or applicable requirements.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.C(2).)

- 1.12 Except as otherwise specified or limited herein, the permittee shall have necessary sampling ports and ease of accessibility for any new air pollution control equipment, obtained after May 8, 1970, and vented to the atmosphere.

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

- 1.13 Except as otherwise specified or limited herein, the permittee shall provide the necessary sampling ports and ease of accessibility when deemed necessary by the Permit Board for air pollution control equipment that was in existence prior to May 8, 1970.

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

- 1.14 Compliance with the conditions of this permit shall be deemed compliance with any applicable requirements as of the date of permit issuance upon satisfying one of the following conditions:

- (a) Such applicable requirements are included and are specifically identified in the permit; or
- (b) The Permit Board, in acting on the permit application or revision, determines in writing that other requirements specifically identified are not applicable to the permittee and the permit includes such determination (or a concise summary thereof).

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.F(1).)

- 1.15 Nothing in this permit shall alter or affect the following:

- (a) The provisions of Section 303 of the Federal Act (emergency orders), including the authority of the Administrator under that section;

- (b) The liability of an owner or operator of a source for any violation of applicable requirements prior to or at the time of permit issuance;
- (c) The applicable requirements of the acid rain program, consistent with Section 408(a) of the Federal Act.
- (d) The ability of EPA to obtain information from a source pursuant to Section 114 of the Federal Act.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.F(2).)

- 1.16 The permittee shall comply with the requirement to register a Risk Management Plan if permittee's facility is required to register such a plan pursuant to Section 112(r) of the Federal Act.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.H.)

- 1.17 Expiration of this permit terminates the permittee's right to operate unless a timely and complete renewal application has been submitted. A timely application is one that is submitted at least six (6) months prior to the date of permit expiration.

If the permittee submits a timely and complete application for permit issuance (including for renewal), the failure to have a Title V permit is not a violation of the applicable regulations until the Permit Board takes final action on the permit application. This protection shall cease to apply if, subsequent to the completeness determination, the permittee fails to submit by the deadline specified in writing by the DEQ any additional information identified as being needed to process the application.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.2.A(1)(c), R. 6.4.B., and 6.4.C(2).)

- 1.18 The permittee is authorized to make changes within their facility without requiring a permit revision (Ref.: Section 502(b)(10) of the Federal Act) if the following criteria are met:

- (a) The changes are not modifications under any provision of Title I of the Federal Act;
- (b) The changes do not exceed the emissions allowable under this permit;
- (c) The permittee provides the Administrator and the Department with written notification in advance of the proposed changes [i.e., at least seven (7) days or such other time frame as provided in other regulations for emergencies] and the notification includes the following information:
  - (i) A brief description of the change(s),
  - (ii) The date on which the change will occur,
  - (iii) Any change in emissions, and

- (iv) Any permit term or condition that is no longer applicable as a result of the change;
- (d) The permit shield shall not apply to any Section 502(b)(10) change.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.4.F(1).)

- 1.19 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 either the permittee's prepared “Emission Control Action Program(s)” or, in the absence of a prepared Emission Control Action Program, the appropriate requirements and “Emission Reduction Objectives” specified in Regulation 11 Miss. Admin. Code Pt. 2, Ch. 3. – “Regulations for the Prevention of Air Pollution Emergency Episodes” – for the level of emergency declared and the permittee’s source of air contamination.

(Ref.: 11 Miss. Admin. Code Pt. 2, Ch. 3.)

- 1.20 Except as otherwise provided herein, a modification of the permittee’s facility may require a Permit to Construct in accordance with the provisions specified in Regulation 11 Miss. Admin. Code Pt. 2, Ch. 2. – “Permit Regulations for the Construction and/or Operation of Air Emissions Equipment” – and may require modification of this permit in accordance with Regulation 11 Miss. Admin. Code Pt. 2, Ch. 6. – “Air Emissions Operating Permit Regulations for the Purposes of Title V of the Federal Clean Air Act.”

“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:
  - (i) 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 Regulation 11 Miss. Admin. Code Pt. 2, Ch. 2. and/or Ch. 5.; or

- (ii) The source is approved to use under any permit issued under Regulation 11 Miss. Admin. Code Pt. 2, Ch. 2. and/or Ch. 5.;;
- (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 Regulation 11 Miss. Admin. Code Pt. 2, Ch. 2. or Ch. 5.; or
- (f) Any change in ownership of the stationary source.

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

1.21 An administrative permit amendment may be made by the Permit Board authorizing changes in ownership or operational control consistent with the following procedure:

- (a) The Permit Board shall take action within sixty (60) days after receipt of a completed request for a permit transfer, unless a public hearing is scheduled. The Permit Board may incorporate such changes without providing notice to the public or affected State(s) provided that it designates any such permit revision as having been made pursuant to this paragraph.
- (b) A permit transfer shall be approved upon satisfaction of the following:
  - (i) The applicant for transfer approval can demonstrate to the Permit Board it has the financial resources, operational expertise, and environmental compliance history over the last five (5) years to insure compliance with the terms and conditions of the permit to be transferred, except where this conflicts with State Law, and
  - (ii) The Permit Board determines that no other change in the permit is necessary, provided that a written agreement containing a specific date for transfer of permit responsibility, coverage, and liability between the current and new permittee has been submitted to the DEQ.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.4.D(4)(a) and (b).)

1.22 This permit is a Federally approved operating permit under Title V of the Federal Act. All terms and conditions in this permit, including any provisions designed to limit the permittee's potential to emit, are enforceable by the Administrator and citizens under the Federal Act as well as the Commission.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.B(1).)

1.23 Except as otherwise specified or limited herein, the open burning of residential, commercial, institutional, or industrial solid waste, is prohibited. This prohibition does not apply to infrequent burning of agricultural wastes in the field, silvicultural wastes for forest management purposes, land-clearing debris, debris from emergency clean-up operations, and ordnance.

Open burning of land-clearing debris must not use starter or auxiliary fuels which cause excessive smoke (rubber tires, plastics, etc.); must not be performed if prohibited by local ordinances; must not cause a traffic hazard; must not take place where there is a High Fire Danger Alert declared by the Mississippi Forestry Commission or an Emergency Air Pollution Episode Alert imposed by the Executive Director of DEQ; and must meet the following buffer zones:

- (a) Open burning without a forced-draft air system must not occur within 500 yards of an occupied dwelling.
- (b) Open burning utilizing a forced-draft air system on all fires to improve the combustion rate and reduce smoke may be done within 500 yards of but not within fifty (50) yards of an occupied dwelling.
- (c) Burning must not occur within 500 yards of commercial airport property, private airfields, or marked off-runway aircraft approach corridors unless written approval to conduct burning is secured from the proper airport authority, owner or operator.

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

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

- (a) Upsets (as defined in 11 Miss. Admin. Code Pt. 2, R. 1.2.)
  - (1) For an upset, 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 five (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 non-compliance, and the corrective actions taken and;

- (v) That as soon as practicable but no later than twenty-four (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) Start-ups and Shutdowns (as defined in 11 Miss. Admin. Code Pt. 2, R. 1.2.)
- (i) Start-ups and shutdowns are part of normal source operation. Emission limitations apply during start-ups and shutdowns unless source specific emission limitations or work practice standards for start-ups and shutdowns are defined by an applicable rule, regulation, or permit.
  - (ii) Where the source is unable to comply with existing emission limitations established under the State Implementation Plan (SIP) and defined in Regulation 11 Mississippi Administrative Code, Part 2, Chapter 1, the Department will consider establishing source specific emission limitations or work practice standards for start-ups and shutdowns. Source specific emission limitations or work practice standards established for start-ups and shutdowns are subject to the requirements prescribed in 11 Miss. Admin. Code Pt. 2, R. 1.10.B(2)(a) through (e).
  - (iii) Where an upset as defined in Rule 1.2 occurs during start-up or shutdown, see the “Upset” requirements above.

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

- 1.25 The permittee shall comply with all applicable standards for demolition and renovation activities pursuant to the requirements specified in 40 CFR Part 61, Subpart M (National Emission Standard for Asbestos), as adopted by reference in Regulation 11 Miss Admin. Code Pt. 2, R. 1.8. The permittee shall not be required to obtain a modification of this permit in order to perform the referenced activities.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 1.8.)

## SECTION 2. EMISSION POINTS & POLLUTION CONTROL DEVICES

Emission Point	Description
AA-000	Facility-Wide (North Mississippi Medical Center)
AI-001	Facility-Wide Boilers
AA-002	16.8 MMBTU/Hour Dual Fuel-Fired Boiler No. 1 (located in the Main Unit; installed in 1995; natural gas is the primary fuel source and No. 2 fuel oil is the emergency back-up)
AA-003	16.8 MMBTU/Hour Dual Fuel-Fired Boiler No. 2 (located in the Main Unit; installed in 1995; natural gas is the primary fuel source and No. 2 fuel oil is the emergency back-up)
AA-004	16.738 MMBTU/Hour Dual Fuel-Fired Boiler No. 3 (located in the Main Unit; installed in 1990; natural gas is the primary fuel source and No. 2 fuel oil is the emergency back-up)
AA-005	6.695 MMBTU/Hour Dual Fuel-Fired Boiler No. 4 (located in the Main Unit; installed in 1976; natural gas is the primary fuel source and No. 2 fuel oil is the emergency back-up)
AA-006	10.461 MMBTU/Hour Dual Fuel-Fired Boiler No. 1 (located in the Service Center; installed in 1988; natural gas is the primary fuel source and No. 2 fuel oil is the emergency back-up)
AA-007	10.461 MMBTU/Hour Dual Fuel-Fired Boiler No. 2 (located in the Service Center; installed in 1988; natural gas is the primary fuel source and No. 2 fuel oil is the emergency back-up)
AA-008	3.25 MMBTU/Hour Dual Fuel-Fired Boiler No. 1 (located in the Behavior Center; installed in 1993)
AA-009	3.25 MMBTU/Hour Dual Fuel-Fired Boiler No. 2 (located in the Behavior Center; installed in 1993; natural gas is the primary fuel source and No. 2 fuel oil is the emergency back-up)
AA-010	3.5 MMBTU/Hour Dual Fuel-Fired Boiler No. 1 (located in the Women's Hospital; replacement-in-kind installed in 2017; natural gas is the primary fuel source and No. 2 fuel oil is the emergency back-up)
AA-011	3.5 MMBTU/Hour Dual Fuel-Fired Boiler No. 2 (located in the Women's Hospital; installed in 2000; natural gas is the primary fuel source and No. 2 fuel oil is the emergency back-up)
AA-012	4.0 MMBTU/Hour Dual Fuel-Fired Boiler No. 1 (located in the 589 Garfield Building; installed in 2001; natural gas is the primary fuel source and No. 2 fuel oil is the emergency back-up)
AA-013	4.0 MMBTU/Hour Dual Fuel-Fired Boiler No. 2 (located in the 589 Garfield Building; installed in 2001; natural gas is the primary fuel source and No. 2 fuel oil is the emergency back-up)
AA-200	12.6 MMBTU/Hour Dual Fuel-Fired Boiler No. 1 (located in the Central Sterile Processing Building; installed in 2010; natural gas is the primary fuel source and No. 2 fuel oil is the emergency back-up)
AA-201	12.6 MMBTU/Hour Dual Fuel-Fired Boiler No. 2 (located in the Central Sterile Processing Building; installed in 2010; natural gas is the primary fuel source and No. 2 fuel oil is the emergency back-up)
AI-002	Facility-Wide RICE (Reciprocating Internal Combustion Engines) – Compression Ignition
AA-016	450 HP (300 kW) Diesel Emergency Generator (located in the Main Unit Power Plant; installed in 1998)

Emission Point	Description
AA-017	225 HP (150 kW) Diesel Emergency Generator (located in the Behavior Center; installed in 1993)
AA-018	438 HP (400 kW) Diesel Emergency Generator (located in the 589 Garfield Building; installed in 2001)
AA-019	225 HP (150 kW) Diesel Emergency Generator (located in the Service Center; installed in 1995)
AA-021B	750 HP (500 kW) Diesel Emergency Generator (located in the Main Unit East No. 1; installed in October 2010)
AA-022B	750 HP (500 kW) Diesel Emergency Generator (located in the Main Unit East No. 2; installed in 2009)
AA-023	1,125 HP (750 kW) Diesel Emergency Generator (located in the Main Unit East Tower No. 1; installed in 1995)
AA-024	1,125 HP (750 kW) Diesel Emergency Generator (located in the Main Unit East Tower No. 2; installed in 1995)
AA-025	1,125 HP (750 kW) Diesel Emergency Generator (located in the Main Unit South Ex. No. 1; installed in 2001)
AA-026	1,125 HP (750 kW) Diesel Emergency Generator (located in the Main Unit South Ex. No. 2; installed in 2001)
AA-028	219 HP (125 kW) Diesel Emergency Generator (located in Longtown; installed in 2006)
AA-029	277 HP (150 kW) Diesel Emergency Generator (located in Emergency Response; installed in 2006)
AA-030	277 HP (150 kW) Diesel Emergency Generator (located in United Blood Services; installed in 2006)
AA-031A	1,125 HP (750 kW) Diesel Emergency Generator (located in the Women's Hospital Unit No. 1; installed in April 2008)
AA-031B	1,125 HP (750 kW) Diesel Emergency Generator (located in the Women's Hospital Unit No. 2; installed in April 2008)
AA-032	120 HP (80 kW) Diesel Emergency Generator (located in the Weaver Warehouse Unit; installed in January 2007)
AA-033	1,073 HP (800 kW) Diesel Emergency Generator (located in the Central Sterile Processing Building; installed January 2010)
AA-034	1,341 HP (1,000 kW) Diesel Emergency Generator (located in the Main Unit WBT No. 1; installed in October 2012)
AA-035	1,341 HP (1,000 kW) Diesel Emergency Generator (located in the Main Unit WBT No. 2; installed in October 2012)
AI-003	Facility-Wide RICE (Reciprocating Internal Combustion Engines) – Spark Ignition
AA-036	57.5 HP Natural Gas Emergency Generator (located in the Cancer Center; installed in 2012)
AA-037	126 HP Natural Gas Emergency Generator (located in the Med Service; installed in 2006)

<b>Emission Point</b>	<b>Description</b>
AI-004	Miscellaneous Equipment
AA-027	20,000 Gallon Diesel Underground Storage Tank
AB-002	Ethylene Oxide Sterilization Facility located at central sterile processing (CSP) – emissions routed to abator to control VOC and HAPs
IA-000	Insignificant Activities (includes Natural Gas Fuel Burning Equipment and Storage Tanks)

### **SECTION 3. EMISSION LIMITATIONS & STANDARDS**

#### **A. FACILITY-WIDE EMISSION LIMITATIONS & STANDARDS**

3.A.1 Except as otherwise specified or limited herein, the permittee shall not cause or allow the emission of smoke from a point source into the open air from any manufacturing, industrial, commercial or waste disposal process that exceeds forty percent (40%) opacity subject to the exceptions provided below:

- (a) Start-up operations may produce emissions, which exceed 40% opacity for up to fifteen (15) minutes per start-up in any one (1) hour and not to exceed three (3) start-ups per stack in any twenty-four (24) hour period.
- (b) Emissions resulting from soot blowing operations shall be permitted provided such emissions do not exceed sixty percent (60%) opacity and provided further that the aggregate duration of such emissions during any twenty-four (24) hour period does not exceed ten (10) minutes per billion BTU gross heating value of fuel in any one (1) hour.

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

3.A.2 Except as otherwise specified or limited herein, the permittee shall not cause or allow the discharge into the ambient air from any point source any air contaminant of such opacity as to obscure an observer's view to a degree in excess of 40% opacity equivalent to that provided in Condition 3.A.1. This shall not apply to vision obscuration caused by uncombined water droplets.

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

3.A.3 The permittee shall not cause, permit, or allow the emission of particles or any contaminants in sufficient amounts or of such duration from any process as to be injurious to humans, animals, plants, or property, or to be a public nuisance, or create a condition of air pollution.

- (a) The permittee shall not cause or permit the handling, transporting, or storage of any material in a manner which allows or may allow unnecessary amounts of particulate matter to become airborne.
- (b) When dust, fumes, gases, mist, odorous matter, vapors, or any combination thereof escape from a building or equipment in such a manner and amount as to cause a nuisance to property other than that from which it originated or to violate any other provision of Regulation 11 Miss. Admin. Code Pt. 2, Ch. 1, the Commission may order such corrected in a way that all air and gases or air and gas-borne material leaving the building or equipment are controlled or removed prior to discharge to the open air.

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

**B. EMISSION POINT SPECIFIC EMISSION LIMITATIONS & STANDARDS**

<b>Emission Point(s)</b>	<b>Applicable Requirement</b>	<b>Condition Number</b>	<b>Pollutant / Parameter</b>	<b>Limit / Standard</b>
AA-000	11 Miss. Admin. Code Pt. 2, R. 1.3.D(1)(a) – (b).	3.B.1	PM (filterable only)	0.6 lbs. / MMBTU, or $E = 0.8808(I^{-0.1667})$ (As Applicable)
AI-001	11 Miss. Admin. Code Pt. 2, R. 1.4.A(1).	3.B.2	SO <sub>2</sub>	4.8 lbs. / MMBTU
	11 Miss. Admin. Code Pt. 2, R. 2.2.B.(10). 40 CFR 63.11237, Subpart JJJJJ	3.B.3	Fuel Oil Usage	Limit to No More Than 48 Hours Per Calendar Year (for Each Boiler)
AA-002 AA-003 AA-004 AA-200 AA-201	40 CFR Part 60, Subpart Dc – Standards of Performance for Small Commercial-Industrial-Institutional Steam Generating Units 40 CFR 60.40c(a), Subpart Dc	3.B.4	SO <sub>2</sub>	Applicability
	40 CFR 60.42c(d), Subpart Dc	3.B.5		0.5 Weight Percent Sulfur
AA-016 AA-017 AA-018 AA-019 AA-023 AA-024 AA-025 AA-026 AA-028 AA-029 AA-030 AA-037	40 CFR Part 63, Subpart ZZZZ – National Emission Standards for Reciprocating Internal Combustion Engines 40 CFR 63.6585(f)(3), Subpart ZZZZ	3.B.6	HAPs	Exemption
AA-021B AA-022B AA-031A AA-031B AA-032 AA-033 AA-034 AA-035	40 CFR Part 60, Subpart IIII – Standards of Performance for Stationary Compression Ignition Internal Combustion Engines 40 CFR 60.4200(a), Subpart IIII 40 CFR 63.6590(c)(1), Subpart ZZZZ	3.B.7	NO <sub>x</sub> + HC CO PM	Applicability
AA-021B AA-022B AA-031A AA-031B AA-032 AA-033	40 CFR 60.4207(b), Subpart IIII	3.B.8	Fuel Limits	15 ppm Sulfur Content (Max.); and 40 Cetane Index (Min.) or 35% Aromatic Content (Max. – by volume)

Emission Point(s)	Applicable Requirement	Condition Number	Pollutant / Parameter	Limit / Standard
AA-034 AA-035	40 CFR 60.4207(d), Subpart IIII	3.B.9	Fuel Limits	1,000 ppm Sulfur Content (Max.)
AA-021B AA-022B AA-031A AA-031B AA-033	40 CFR 60.4202(e)(1), 60.4205(b), and 60.4206, Subpart IIII	3.B.10	THC + NO <sub>x</sub> CO PM	Applicable Emission Standards
AA-032	40 CFR 60.4202(a)(2), 60.4205(b), and 60.4206, Subpart IIII	3.B.11	NMHC + NO <sub>x</sub>	4.0 Grams / Kilowatt-Hour
			CO	5.0 Grams / Kilowatt-Hour
			PM	0.30 Grams / Kilowatt-Hour
AA-034 AA-035	40 CFR 60.4205(d)(2), 60.4205(d)(3), and 60.4206, Subpart IIII	3.B.12	NO <sub>x</sub> PM	Applicable Emission Standards
AA-036	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 40 CFR 63.6590(c)(1), Subpart ZZZZ	3.B.13	NO <sub>x</sub> + HC CO	Applicability
	40 CFR 60.4233(d) and Table 1, Subpart JJJJ	3.B.14	NO <sub>x</sub> + HC CO	10 Grams / Horsepower-Hour 387 Grams / Horsepower-Hour
AI-002 AI-003	40 CFR 63.6640(f)(1), (2), and (4), Subpart ZZZZ 40 CFR 60.4211(f)(1) – (3), Subpart IIII 40 CFR 60.4243(d)(1) – (3), Subpart JJJJ	3.B.15	Non-Emergency Operation	100 Hours / Calendar Year (for Each Engine)
AB-002	40 CFR Part 63, Subpart WWWW – National Emission Standards for Hospital Ethylene Oxide Sterilizers 40 CFR 63.10382(a) and 63.10384(c), Subpart WWWW	3.B.16	HAPs	Applicability

3.B.1 For Emission Point AA-000 (Facility-Wide), the permittee shall comply with one of the following particulate matter (PM) emission standards (as applicable):

(a) The maximum permissible emission of ash and/or PM (filterable only) from fossil

fuel burning installations of less than ten (10) million BTU (MMBTU) per hour heat input shall not exceed 0.6 pounds per MMBTU per hour heat input; or

- (b) The maximum permissible emission of ash and/or PM (filterable only) from fossil fuel burning installations equal to or greater than 10 MMBTU per hour heat input but less than 10,000 MMBTU per hour heat input shall not exceed an emission rate as determined by the relationship:

$$E = 0.8808(I^{-0.1667})$$

Where “E” is the emission rate in pounds per MMBTU per hour heat input and “I” is the heat input in MMBTU per hour.

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

- 3.B.2 For Emission Point AI-001 (Facility-Wide Boilers), the maximum discharge of sulfur oxides 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) per million BTU (MMBTU) heat input.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 1.1.A(1).)

- 3.B.3 For Emission Point AI-001 (Facility-Wide Boilers), the permittee shall limit individual boiler operation while combusting fuel oil to only periodic testing, maintenance, or operator training that pertains to liquid fuel usage for a combined duration of no more than forty-eight (48) hours during any calendar year in order for a boiler to be classified as a “*gas-fired boiler*”. Periods of start-up, natural gas curtailment, and/or natural gas supply emergencies do not count towards the referenced fuel usage restrictions for a boiler.

In the event that the permittee fails to adhere to the referenced fuel usage restrictions for a boiler, the permittee shall be subject to and shall immediately comply with applicable requirements for an “*oil-fired boiler*” found in 40 CFR Part 63, Subpart JJJJJ – National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers Area Sources.

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

(Ref.: 40 CFR 63.11237; Subpart JJJJJ – “*Gas-fired boiler*”)

- 3.B.4 For Emission Points AA-002, AA-003, AA-004, AA-200, and AA-201, the permittee is subject to and shall comply with all applicable requirements found in 40 CFR 60, Subpart Dc – Standards of Performance for Small Commercial-Industrial-Institutional Steam Generating Unit and 40 CFR 60, Subpart A – General Provisions.

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

- 3.B.5 For Emission Points AA-002, AA-003, AA-004, AA-200, and AA-201, the permittee shall not combust oil that contains greater than 0.5 weight percent sulfur.

(Ref.: 40 CFR 60.42c(d), Subpart Dc)

- 3.B.6 For Emission Points AA-016 through AA-019, AA-023 through AA-026, AA-028, AA-029, AA-030, and AA-037, which are existing institutional emergency stationary reciprocating internal combustion engines (RICE) located at an area source for hazardous air pollutant (HAP) emissions, the permittee is not subject to requirements found in 40 CFR Part 63 – Subpart ZZZZ contingent upon each engine complying with the requirements outlined in Condition 3.B.14.

(Ref.: 40 CFR 63.6585(f)(3), Subpart ZZZZ)

- 3.B.7 For Emission Points AA-021B, AA-022B, AA-031A, AA-031B, AA-032, AA-033, AA-034, and AA-035, the permittee is subject to and shall comply with the applicable provisions found in 40 CFR 60, Subpart IIII – Standards of Performance for Stationary Compression Ignition Internal Combustion Engines and 40 CFR 60, Subpart A – General Provisions.

By complying with the applicable requirements of Subpart IIII, the denoted engines are demonstrating compliance with 40 CFR Part 63, Subpart ZZZZ – National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines.

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

(Ref.: 40 CFR 63.6590(c)(1), Subpart ZZZZ)

- 3.B.8 For Emission Points AA-021B, AA-022B, AA-031A, AA-031B, AA-032, and AA-033, the permittee shall only combust diesel fuel within the each engine 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.

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

- 3.B.9 For Emission Points AA-034 and AA-035, the permittee shall only combust diesel fuel that meets a maximum per-gallon sulfur content of 1,000 parts per million (ppm).

(Ref.: 40 CFR 60.4207(d); Subpart IIII)

- 3.B.10 For Emission Points AA-021B, AA-022B, AA-031A, AA-031B, and AA-033, the permittee shall comply with the applicable emission standards found in 40 CFR 94.8 that

correspond with each engine's rated power and cylinder displacement.

The permittee shall operate and maintain each engine in such a manner to achieve the referenced emission standards over the entire life of the engine.

(Ref.: 40 CFR 60.4202(e)(1), 60.4205(b), and 60.4206, Subpart III)

3.B.11 For Emission Point AA-032, the permittee shall comply with the following emission standards (in grams per kilowatt-hour):

- (a) Nonmethane Hydrocarbons + Nitrogen Oxides (NMHC + NO<sub>x</sub>): 4.0 grams per kilowatt-hour;
- (b) Carbon Monoxide (CO): 5.0 grams per kilowatt-hour; and
- (c) Particulate Matter (PM): 0.30 grams per kilowatt-hour.

Additionally, the permittee shall not discharge into the atmosphere any smoke exhaust that exceeds the following opacity standards:

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

The permittee shall operate and maintain the engine in such a manner to achieve the referenced emission standards over the entire life of the engine.

(Ref.: 40 CFR 60.4202(a)(2), 60.4205(b), and 60.4206, Subpart III)

3.B.12 For Emission Points AA-034 and AA-035, the permittee shall comply with the following emission standards:

- (a) The permittee shall limit the emission of nitrogen oxides (NO<sub>x</sub>) from the exhaust of each engine to the following standards (as applicable):
  - (1) 14.4 grams per kilowatt-hour (or 10.7 grams per horsepower-hour) when the maximum engine speed is less than 130 rpm;
  - (2)  $44 \cdot n^{-0.23}$  grams per kilowatt-hour (or  $33 \cdot n^{-0.23}$  grams per horsepower-hour) when maximum engine speed is greater than or equal to 130 but less than 2,000 rpm and where "n" is maximum engine speed;
  - (3) 7.7 grams per kilowatt-hour (or 5.7 grams per horsepower-hour) when the maximum engine speed is greater than or equal to 2,000 rpm.

- (b) The permittee shall limit the emission of particulate matter (PM) from the exhaust of each engine to no more than 0.40 grams per kilowatt-hour (or 0.30 grams per horsepower-hour).

The permittee shall operate and maintain each engine in such a manner to achieve the applicable emission standards over the entire life of the engine.

(Ref.: 40 CFR 60.4205(d)(2), 60.4205(d)(3), and 60.4206, Subpart IIII)

- 3.B.13 For Emission Point AA-036, the permittee is subject to and shall comply with the applicable requirements found in 40 CFR 60, Subpart JJJJ – Standards of Performance for Stationary Spark Ignition Internal Combustion Engines and 40 CFR 60, Subpart A – General Provisions.

By complying with the applicable requirements of Subpart JJJJ, the denoted engines are demonstrating compliance with 40 CFR Part 63, Subpart ZZZZ – National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines.

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

(Ref.: 40 CFR 63.6590(c)(1), Subpart ZZZZ)

- 3.B.14 For Emission Point AA-036, the permittee shall not exceed the following emission standards:

- (a) Nitrogen Oxides + Hydrocarbons (NO<sub>x</sub> + HC): 10 grams per horsepower-hour; and
- (b) Carbon Monoxide (CO): 387 grams per horsepower-hour.

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

- 3.B.15 For Emission Points AI-002 (RICE – Compression Ignition) and AI-003 (RICE – Spark Ignition), any operation of the 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 Parts (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 one hundred (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 63.6640(f)(1), (2), and (4); Subpart ZZZZ)

(Ref.: 40 CFR 60.4211(f)(1 – 3); Subpart IIII)

(Ref.: 40 CFR 60.4243(d)(1 – 3); Subpart JJJJ)

- 3.B.16 For Emission Point AB-002, the permittee is subject to and shall comply with the applicable provisions found in 40 CFR Part 63, Subpart WWWW – National Emission Standards for Hospital Ethylene Oxide Sterilizers and 40 CFR Part 63, Subpart A – General Provisions. Additionally, the permittee shall comply with all applicable requirements upon start-up of new unit.

(Ref.: 40 CFR 63.10382 and 63.10384(c), Subpart WWWW)

C. INSIGNIFICANT AND TRIVIAL ACTIVITY EMISSION LIMITATIONS & STANDARDS

Applicable Requirement	Condition Number	Pollutant / Parameter	Limit / Standard
11 Miss. Admin. Code Pt. 2, R. 1.3.D(1)(a).	3.C.1	PM	0.6 lbs. / MMBTU
11 Miss. Admin. Code Pt. 2, R. 1.4.A(1).	3.C.2	SO <sub>2</sub>	4.8 lbs. / MMBTU

3.C.1 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. 2, R. 1.3.D(1)(a).)

3.C.2 The maximum discharge of sulfur oxides 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) per MMBTU heat input.

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

D. Work Practice Standards

<b>Emission Point(s)</b>	<b>Applicable Requirement</b>	<b>Condition Number(s)</b>	<b>Pollutant/Parameter</b>	<b>Limit/Standard</b>
AB-002	40 CFR 63.10390 and 63.10448, Subpart WWWW	3.D.1	HAPs	Sterilize Full Loads of Items Having a Common Aeration Time

3.D.1 For Emission Point AB-002, the permittee shall sterilize full loads of items having a common aeration time, except under medically necessary circumstances.

For the purpose of this permit, “medically necessary” means that hospital central services staff, a hospital administrator, or a physician conclude (based on generally accepted medical practices) circumstances necessitate sterilizing without a full load in order to protect human health.

(Ref.: 40 CFR 63.10390 and 63.10448, Subpart WWWW)

## **SECTION 4. COMPLIANCE SCHEDULE**

4.1 Unless otherwise specified herein, the permittee shall be in compliance with all requirements contained herein upon issuance of this permit.

4.2 Except as otherwise specified herein, the permittee shall submit to the Permit Board and to the Administrator of EPA Region IV a certification of compliance with permit terms and conditions (including emission limitations, standards, or work practices) by January 31<sup>st</sup> for the preceding calendar year. Each compliance certification shall include the following:

- (a) The identification of each term or condition of the permit that is the basis of the certification;
- (b) The compliance status;
- (c) Whether compliance was continuous or intermittent;
- (d) The method(s) used for determining the compliance status of the source, currently and over the applicable reporting period;
- (e) Such other facts as may be specified as pertinent in specific conditions elsewhere in this permit.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.C(5)(a), (c), & (d).)

4.3 The permittee shall submit progress reports consistent with an applicable schedule of compliance and Mississippi Administrative Code, Title 11, Part 2, Chapter 6, Rule 6.2.C(8) semi-annually, or at such other frequency as is specified in an applicable requirement or by the Permit Board. Such progress reports shall contain the following:

- (a) Dates for achieving the activities, milestone(s), or compliance required in the schedule of compliance, and dates when such activities, milestone(s) or compliance were achieved; and
- (b) An explanation of why any dates in the schedule of compliance were not or will not be met, and any preventive or corrective measures adopted.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.2.C(8).)

## **SECTION 5. MONITORING, RECORDKEEPING & REPORTING REQUIREMENTS**

### **A. GENERAL MONITORING, RECORDKEEPING, AND REPORTING REQUIREMENTS**

5.A.1 The permittee shall install, maintain, and operate equipment and/or institute procedures as necessary to perform the monitoring and recordkeeping specified below.

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

5.A.2 In addition to the recordkeeping specified below, the permittee shall include with all records of required monitoring information the following:

- (a) The date, place as defined in the permit, and time of sampling or measurements;
- (b) The date(s) analyses were performed;
- (c) The company or entity that performed the analyses;
- (d) The analytical techniques or methods used;
- (e) The results of such analyses; and
- (f) The operating conditions existing at the time of sampling or measurement.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)(b)(1).)

5.A.3 Except where a longer duration is specified in an applicable requirement, the permittee shall retain records of all required 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 strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by the permit.

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

5.A.4 Except as otherwise specified herein, the permittee shall submit reports of any required monitoring by July 31<sup>st</sup> and January 31<sup>st</sup> 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 Mississippi Administrative Code, Title 11, Part 2, Chapter 6, Rule 6.2.E.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)(c)(1).)

5.A.5 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. The report shall be made within five (5) working days of the time the deviation began.

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

- 5.A.6 Except as otherwise specified herein, the permittee shall perform emissions sampling and analysis in accordance with EPA Test Methods and with any continuous emission monitoring requirements, if applicable. All test methods shall be those versions or their equivalents approved by the MDEQ and the EPA.

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

- 5.A.7 The permittee shall maintain records of any alterations, additions, or changes in equipment or operation.

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

- 5.A.8 Unless otherwise specified in Section 4 of this permit, the monitoring, testing, recordkeeping, and reporting requirements specified in Section 5 herein supersede the requirements of any preceding permit to construct and/or operate upon permit issuance.

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

**B. Specific Monitoring and Recordkeeping Requirements**

<b>Emission Point(s)</b>	<b>Applicable Requirement</b>	<b>Condition Number</b>	<b>Pollutant / Parameter Monitored</b>	<b>Monitoring / Recordkeeping Requirement</b>
AA-000	11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)(a)(2).	5.B.1	Fuel Usage	Maintain Monthly Records on the Type and Volume of Each Fuel Used
AA-002 AA-003 AA-004 AA-200 AA-201	40 CFR 60.48c(g)(2), Subpart Dc	5.B.2	Fuel Usage	Record and Maintain Monthly Records on the Volume of Each Fuel Combusted
	40 CFR 60.42c(h)(1); Subpart Dc	5.B.3	Sulfur Content	Maintain Fuel Certification Records (Fuel Oil)
AI-002 AI-003	40 CFR 63.6655(f)(2), Subpart ZZZZ 40 CFR 60.4214(b), Subpart IIII 40 CFR 60.4245(b), Subpart JJJJ 11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)(a)(2).	5.B.4	Hours of Operation	Monitor and Record Hours of Operation (for Emergencies and Non-Emergencies)
AA-021B AA-022B AA-031A AA-031B AA-032	40 CFR 60.4211(a), Subpart IIII	5.B.5	NO <sub>x</sub> + HC	Operation and Maintenance Requirements
AA-033 AA-034 AA-035	40 CFR 60.4211(c), Subpart IIII	5.B.6	CO PM	Maintain Documentation for Purchased Certified Engine
AA-036	40 CFR 60.4243(a) and (b), Subpart JJJJ	5.B.7	NO <sub>x</sub> + HC	Compliance Demonstration Options
	40 CFR 60.4245(a), Subpart JJJJ	5.B.8	CO	Recordkeeping
AB-002	40 CFR 63.10432(a), 63.10400(a), (c), 63.10430(a), Subpart WWWW	5.B.9	HAPs	Recordkeeping

5.B.1 For Emission Point AA-000 (Facility-Wide), the permittee shall monitor and maintain the total volume (in gallons or cubic feet) of each fuel used on a monthly basis.

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

5.B.2 For Emission Points AA-002, AA-003, AA-004, AA-200, and AA-201, the permittee shall record and maintain records of the amount of each fuel combusted during each calendar month.

(Ref.: 40 CFR 60.48c(g)(2), Subpart Dc)

- 5.B.3 For Emission Points AA-002, AA-003, AA-004, AA-200, and AA-201, the permittee shall demonstrate compliance with the sulfur content restriction specified in Condition 3.B.5 by maintaining documentation from the fuel oil supplier(s) that certifies both the sulfur content and the information required by Condition 5.C.3.

(Ref.: 40 CFR 60.42c(h)(1); Subpart Dc)

- 5.B.4 For Emission Points AI-002 (RICE – Compression Ignition) and AI-003 (RICE – Spark Ignition), the permittee shall monitor and record (via a non-resettable hour meter) the hours of operation for each engine 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 63.6655(f)(2), Subpart ZZZZ and 40 CFR 60.4214(b), Subpart IIII)

(Ref.: 40 CFR 60.4245(b), Subpart JJJJ)

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

- 5.B.5 For Emission Points AA-021B, AA-022B, AA-031A, AA-031B, AA-032, AA-033, AA-034, and AA-035, the permittee shall comply with the following operational and maintenance requirements:

- (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 parts 89, 94 and/or 1068, as they apply.

(Ref.: 40 CFR 60.4211(a), Subpart IIII)

- 5.B.6 For Emission Points AA-021B, AA-022B, AA-031A, AA-031B, AA-032, AA-033, AA-034, and AA-035, the permittee shall demonstrate compliance with the applicable emission standards specified in Conditions 3.B.9 through 3.B.11 by maintaining documentation that the engine purchased is certified to the corresponding emission standards for the same model year and maximum engine power. The engine must be installed and configured according to the manufacturer's emission-related specifications.

(Ref.: 40 CFR 60.4211(c), Subpart IIII)

- 5.B.7 For Emission Point AA-036, the permittee shall demonstrate compliance with the emission standards specified in Condition 3.B.13 through one of the following methods:

- (a) Purchase an engine certified in accordance to the procedures specified in 40 CFR Part 60 – Subpart JJJJ for the same model year; or

- (b) Purchase a non-certified engine and demonstrate compliance with the specified emission standards as follows:
  - (1) The permittee shall keep a maintenance plan and records of conducted maintenance;
  - (2) The permittee must (to the extent practicable) maintain and operate the engine in a manner consistent with good air pollution control practice for minimizing emissions.
  - (3) The permittee shall conduct an initial performance test in accordance with the requirements specified in 40 CFR 60.4244, Subpart JJJJ to demonstrate compliance.

(Ref.: 40 CFR 60.4243(a) and (b), Subpart JJJJ)

5.B.8 For Emission Point AA-036, the permittee shall maintain records with the following information:

- (a) Any maintenance conducted on the engine;
- (b) If a certified engine, documentation from the manufacturer that the engine is certified to meet the emission standards specified in Condition 3.B.13 and information as required in 40 CFR Parts 90, 1048, 1054, and 1060 (as applicable).
- (c) If a non-certified engine or a certified engine operating in a non-certified manner and subject to Condition 5.B.7(b), documentation that the engine meets the specified emission standards.

(Ref.: 40 CFR 60.4245(a), Subpart JJJJ)

5.B.9 For Emission Point AB-002, the permittee shall maintain a copy of the Initial Notification of Compliance Status that is submitted in accordance with Condition 5.C.5. The notification shall include the following information:

- (a) The name and address of the permittee.
- (b) The address (i.e., physical location) of the ethylene oxide sterilization facility.
- (c) An identification of the standard and other applicable requirements in Subpart WWWW that serve as the basis of the notification and the source's compliance date.
- (d) A brief description of the sterilization facility, including the number of ethylene oxide sterilizers, the size (volume) of each, the number of aeration units, if any, the

amount of annual ethylene oxide usage at the facility, the control technique used for each sterilizer, and typical number of sterilization cycles per year.

- (e) A statement that the facility is an area source.
- (f) Except as provided in paragraphs (g) of this condition, the permittee shall certify that the permittee is sterilizing full loads of items having a common aeration time except under medically necessary circumstances.
- (g) If operating the sterilization unit(s) with an air pollution control device (but are not subject to any State or local regulation), the permittee shall certify that ethylene oxide emissions from each sterilization unit are vented to an add-on air pollution control device. The permittee shall certify that the control device is operated during all sterilization processes and in accordance with manufacturer's recommended procedures.

(Ref.: 40 CFR 63.10432(a), 63.10400(a), (c), 63.10430(a), Subpart WWWW)

**C. SPECIFIC REPORTING REQUIREMENTS**

<b>Emission Point(s)</b>	<b>Applicable Requirement</b>	<b>Condition Number</b>	<b>Pollutant / Parameter Monitored</b>	<b>Reporting Requirement</b>
AI-001	11 Miss. Admin. Code Pt. 2, R. 2.2.B(11).	5.C.1	Fuel Oil Usage	Submit an Annual Summary on Fuel Oil Usage in Each Boiler
	11 Miss. Admin. Code Pt. 2, R. 2.2.B(11).	5.C.2	HAPs	Submit a Notification on Subpart JJJJJ Applicability (As Needed)
AA-002 AA-003 AA-004 AA-200 AA-201	40 CFR 60.48c(d), (e), and (f), Subpart Dc	5.C.3	Fuel Oil Specifications	Submit Semi-Annual Monitoring Reports on Fuel Oil Specifications
AI-002 AI-003	11 Miss. Admin. Code Pt. 2, R. 2.2.B(11).	5.C.4	Hours of Operation	Submit an Annual Summary on the Hours of Operation for Each Engine
AB-002	40 CFR 63.10430, Subpart WWWW	5.C.5	HAPs	Submit Notification of Compliance Status

5.C.1 For Emission Point AI-001 (Facility-Wide Boilers), the permittee shall submit a summary within the semi-annual monitoring report (SMR) postmarked by January 31<sup>st</sup> of each calendar year that details the usage (in gallons) of fuel oil in each boiler for the preceding calendar year. Additionally, the summary shall include an explanation as to why fuel oil was used in each instance.

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

5.C.2 For Emission Point AI-001 (Facility-Wide Boilers), when an exceedance of the fuel usage restriction specified in Condition 3.B.3 occurs, the permittee shall submit a written notification to the MDEQ that indicates the date in which a boiler became subject to 40 CFR Part 63, Subpart JJJJJ. The notification shall be submitted no later than thirty (30) days after the applicability determination was made.

Additionally, the notification shall outline any emission limitations, monitoring requirements, and/or reporting requirements within the subpart applicable to an affected boiler.

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

5.C.3 For Emission Points AA-002, AA-003, AA-004, AA-200, and AA-201, the permittee submit a semi-annual monitoring report in accordance with Condition 5.A.4 that details the fuel oil supplier certification information required by Condition 5.B.4 and the following information:

- (a) The name of the oil supplier;

(b) A statement from the oil supplier that the oil complies with the specifications under the definition of distillate oil in 40 CFR 60.41c, Subpart Dc; and

(c) The sulfur content or maximum sulfur content of the oil.

(Ref.: 40 CFR 60.48c(e)(11), (f)(1), and (j), Subpart Dc)

5.C.4 For Emission Points AI-002 (RICE – Compression Ignition) and AI-003 (RICE – Spark Ignition), the permittee shall submit a summary within the semi-annual monitoring report (SMR) postmarked by January 31<sup>st</sup> that details the hours of operation for each engine during the preceding calendar year. The report shall include how many hours are spent for emergency operation, what classified the operation as an emergency, how many hours are spent for non-emergency operation, and the reason for the non-emergency operation.

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

5.C.5 For Emission Point AB-002, the permittee shall submit an Initial Notification of Compliance Status containing the information outlined in Condition 5.B.9 no later than 180 calendar days after start-up of the new unit.

(Ref: 40 CFR 63.10430, Subpart WWWW)

**SECTION 6. ALTERNATIVE OPERATING SCENARIOS**

6.1 None permitted.

## **SECTION 7. TITLE VI REQUIREMENTS**

The following are applicable or potentially applicable requirements originating from Title VI of the Clean Air Act – Stratospheric Ozone Protection. The full text of the referenced regulations may be found on-line at <http://www.ecfr.gov/> under Title 40, or DEQ shall provide a copy upon request from the permittee.

- 7.1 If the permittee produces, transforms, destroys, imports or exports a controlled substance or imports or exports a controlled product, the permittee shall comply with the applicable requirements of 40 CFR Part 82, Subpart A – Production and Consumption Controls.
- 7.2 If the permittee performs service on a motor vehicle for consideration when this service involves the refrigerant in the motor vehicle air conditioner (MVAC), the permittee shall comply with the applicable requirements of 40 CFR Part 82, Subpart B – Servicing of Motor Vehicle Air Conditioners.
- 7.3 The permittee shall comply with the applicable requirements of 40 CFR Part 82, Subpart E – The Labeling of Products Using Ozone-Depleting Substances for the following containers and products:
  - (a) All containers in which a class I or class II substance is stored or transported;
  - (b) All products containing a class I substance; and
  - (c) All products directly manufactured with a process that uses a class I substance, unless otherwise exempted by this subpart or, unless EPA determines for a particular product that there are no substitute products or manufacturing processes for such product that do not rely on the use of a class I substance, that reduce overall risk to human health and the environment, and that are currently or potentially available. If the EPA makes such a determination for a particular product, then the requirements of this subpart are effective for such product no later than January 1, 2015.
- 7.4 If the permittee performs any of the following activities, the permittee shall comply with the applicable requirements of 40 CFR Part 82, Subpart F – Recycling and Emissions Reduction:
  - (a) Servicing, maintaining, or repairing appliances;
  - (b) Disposing of appliances, including small appliances and motor vehicle air conditioners; or
  - (c) Refrigerant reclaimers, technician certifying programs, appliance owners and operators, manufacturers of appliances, manufacturers of recycling and recovery equipment, approved recycling and recovery equipment testing organizations, as

well as persons selling, offering for sale, and/or purchasing class I, class II, or non-exempt substitute refrigerants.

- 7.5 The permittee shall be allowed to switch from any ozone-depleting substance to any acceptable alternative that is listed in the Significant New Alternatives Policy (SNAP) program promulgated pursuant to 40 CFR Part 82, Subpart G – Significant New Alternatives Policy Program. The permittee shall also comply with any use conditions for the acceptable alternative substance.
- 7.6 If the permittee performs any of the following activities, the permittee shall comply with the applicable requirements of 40 CFR Part 82, Subpart H – Halon Emissions Reduction:
- (a) Any person testing, servicing, maintaining, repairing, or disposing of equipment that contains halons or using such equipment during technician training;
  - (b) Any person disposing of halons;
  - (c) Manufacturers of halon blends; or
  - (d) Organizations that employ technicians who service halon-containing equipment.

# APPENDIX A

## List of Abbreviations Used In this Permit

11 Miss. Admin. Code Pt. 2, Ch. 1.	Air Emission Regulations for the Prevention, Abatement, and Control of Air Contaminants
11 Miss. Admin. Code Pt. 2, Ch. 2.	Permit Regulations for the Construction and/or Operation of Air Emissions Equipment
11 Miss. Admin. Code Pt. 2, Ch. 3. Episodes	Regulations for the Prevention of Air Pollution Emergency
11 Miss. Admin. Code Pt. 2, Ch. 4.	Ambient Air Quality Standards
11 Miss. Admin. Code Pt. 2, Ch. 5.	Regulations for the Prevention of Significant Deterioration of Air Quality
11 Miss. Admin. Code Pt. 2, Ch. 6.	Air Emissions Operating Permit Regulations for the Purposes of Title V of the Federal Clean Air Act
11 Miss. Admin. Code Pt. 2, Ch. 7.	Acid Rain Program Permit Regulations for Purposes of Title IV of the Federal Clean Air Act
BACT	Best Available Control Technology
CEM	Continuous Emission Monitor
CEMS	Continuous Emission Monitoring System
CFR	Code of Federal Regulations
CO	Carbon Monoxide
COM	Continuous Opacity Monitor
COMS	Continuous Opacity Monitoring System
DEQ	Mississippi Department of Environmental Quality
EPA	United States Environmental Protection Agency
gr/dscf	Grains Per Dry Standard Cubic Foot
HP	Horsepower
HAP	Hazardous Air Pollutant
lbs/hr	Pounds per Hour
M or K	Thousand
MACT	Maximum Achievable Control Technology
MM	Million
MMBTUH	Million British Thermal Units per Hour
NA	Not Applicable
NAAQS	National Ambient Air Quality Standards
NESHAP	National Emissions Standards for Hazardous Air Pollutants, 40 CFR 61 or National Emission Standards for Hazardous Air Pollutants for Source Categories, 40 CFR 63
NMVOC	Non-Methane Volatile Organic Compounds
NO <sub>x</sub>	Nitrogen Oxides
NSPS	New Source Performance Standards, 40 CFR 60
O&M	Operation and Maintenance
PM	Particulate Matter
PM <sub>10</sub>	Particulate Matter less than 10 µm in diameter
ppm	Parts per Million
PSD	Prevention of Significant Deterioration, 40 CFR 52
SIP	State Implementation Plan
SO <sub>2</sub>	Sulfur Dioxide
TPY	Tons per Year
TRS	Total Reduced Sulfur
VEE	Visible Emissions Evaluation
VHAP	Volatile Hazardous Air Pollutant
VOC	Volatile Organic Compound