

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

**TO OPERATE AIR EMISSIONS EQUIPMENT**

**THIS CERTIFIES THAT**

Entergy Mississippi LLC, Gerald Andrus Plant  
200 M P and L Road  
Highway 82 West  
Greenville, Mississippi  
Washington 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 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:** \_\_\_\_\_

**Effective Date:** As specified herein.

**MISSISSIPPI ENVIRONMENTAL QUALITY PERMIT BOARD**

\_\_\_\_\_  
**AUTHORIZED SIGNATURE**  
**MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY**

**Expires:** [Date not to exceed 5 years from issuance]

**Permit No.:** 2800-00048

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**APPENDIX A LIST OF ABBREVIATIONS USED IN THIS PERMIT**  
**APPENDIX B ACID RAIN PERMIT**

## SECTION 1. GENERAL CONDITIONS

1.1 The permittee must comply with all conditions of this permit. Any permit noncompliance 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 This 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 provisions listed below.

(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 3 or more years. Such a reopening shall be completed no later than 18 months after promulgation of the applicable requirement. No such reopening is required if the effective date of the requirement is later than the date on which the permit is due to expire, unless the original permit or any of its terms and conditions has been extended.
- (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 emission 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 this permit shall follow the same procedures as apply to initial permit issuance and shall only affect 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 DEQ at least 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 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 This 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 permit fee. The amount of fee shall be determined each year based on the provisions of regulated pollutants for fee purposes and the fee schedule specified in the Commission on Environmental Quality's order which shall be issued in accordance with the procedure outlined in Regulation 11 Miss. Admin. Code Pt. 2, Ch. 6.

(a) For purposes of fee assessment and collection, the permittee shall elect for actual 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. 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.

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

(b) If the Commission determines that there is not sufficient information available on a facility's emissions, the determination of the fee shall be based upon the permitted allowable emissions until such time as an adequate determination of actual emissions is made. Such determination may be made anytime within one year of the submittal of actual emissions data by the permittee.

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

- (c) If at any time within the year the Commission determines that the information submitted by the permittee on actual emissions is insufficient or incorrect, the permittee will be notified of the deficiencies and the adjusted fee schedule. Past due fees from the adjusted fee schedule will be paid on the next scheduled quarterly payment time.

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

- (d) The fee shall be due September 1 of each year. By July 1 of each year, the permittee shall submit an inventory of emissions for the previous year on which the fee is to be assessed. The permittee may elect a quarterly payment method of four (4) equal payments; notification of the election of quarterly payments must be made to the DEQ by the first payment date of September 1. The permittee shall be liable for penalty as prescribed by State Law for failure to pay the fee or quarterly portion thereof by the date due.

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

- (e) If in disagreement with the calculation or applicability of the Title V permit 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.C.)

- 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 where such applicable requirements are included and are specifically identified in the permit or where the permit contains a determination, or summary thereof, by the Permit Board that requirements specifically identified previously are not applicable to the source.

(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 pursuant to Section 112(r) of the Act to register such a plan.

(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 which is submitted at least six (6) months prior to expiration of the Title V permit. If the permittee submits a timely and complete application, the failure to have a Title V permit is not a violation of 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. 6.4.C(2)., R. 6.4.B., and R. 6.2.A(1)(c).)

1.18 The permittee is authorized to make changes within their facility without requiring a permit revision (ref: Section 502(b)(10) of the Act) if:

- (a) the changes are not modifications under any provision of Title I of the 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 (at least seven (7) days, or such other time frame as provided in other regulations for emergencies) and the notification includes:
- (1) a brief description of the change(s),
  - (2) the date on which the change will occur,
  - (3) any change in emissions, and
  - (4) 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 the permittee's previously approved Emissions Reduction Schedule or, in the absence of an approved schedule, with the appropriate requirements specified in 11 Miss. Admin. Code Pt. 2, Ch. 3., "Regulations for the Prevention of Air Pollution Emergency Episodes" for the level of emergency declared.

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

- 1.20 Except as otherwise provided herein, a modification of the facility may require a Permit to Construct in accordance with the provisions of Regulations 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 Regulations 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 [a]ny 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 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 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).)

1.21 Any change in ownership or operational control must be approved by the Permit Board.

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

1.22 This permit is a Federally approved operating permit under Title V of the Federal Clean Air Act as amended in 1990. All terms and conditions, including any designed to limit the source'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 Emergency Air Pollution Episode Alert imposed by the Executive Director 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 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 provision with respect to emergencies:

- (a) Except as otherwise specified herein, an “emergency” means any situation arising from sudden and reasonably unforeseeable events beyond the control of the source, including acts of God, which situation requires immediate corrective action to restore

normal operation, and that causes the source to exceed a technology-based emission limitation under the permit, due to unavoidable increases in emissions attributable to the emergency. An emergency shall not include noncompliance to the extent caused by improperly designed equipment, lack of preventative maintenance, careless or improper operation, or operator error.

- (b) An emergency constitutes an affirmative defense to an action brought for noncompliance with such technology-based emission limitations if the conditions specified in (c) following are met.
- (c) The affirmative defense of emergency shall be demonstrated through properly signed contemporaneous operating logs, or other relevant evidence that include information as follows:
  - (1) an emergency occurred and that the permittee can identify the cause(s) of the emergency;
  - (2) the permitted facility was at the time being properly operated;
  - (3) during the period of the emergency the permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards, or other requirements in the permit; and
  - (4) the permittee submitted notice of the emergency to the DEQ within 2 working days of the time when emission limitations were exceeded due to the emergency. This notice must contain a description of the emergency, any steps taken to mitigate emissions, and corrective actions taken.
- (d) In any enforcement proceeding, the permittee seeking to establish the occurrence of an emergency has the burden of proof.
- (e) This provision is in addition to any emergency or upset provision contained in any applicable requirement specified elsewhere herein.

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

1.25 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 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 in 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.)

- 1.26 The permittee shall comply with all applicable standards for demolition and renovation activities pursuant to the requirements of 40 CFR Part 61, Subpart M, 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-001	7,275 MMBtu/hr Steam Generating Boiler Natural gas- and No. 2 Fuel Oil-fired Construction Date: 1973
AA-002	800 hp (5.6 MMBtu/hr) Emergency Generator Ultra-Low-Sulfur Diesel-fired Compression Ignition Reciprocating Internal Combustion Engine Less than 10 liters per cylinder Construction Date: Before December 19, 2002
AA-004	150 hp (1.05 MMBtu/hr) Emergency Generator Ultra-Low-Sulfur Diesel-fired Compression Ignition Reciprocating Internal Combustion Engine Less than 10 liters per cylinder Construction Date: Before December 19, 2002
AA-005	90 MMBtu/hr Temporary Auxiliary Boiler Natural gas- and No. 2 Fuel Oil-fired To Be Installed
AA-006	305 hp (2.14 MMBtu/hr) Emergency Fire Pump Ultra-Low-Sulfur Diesel-fired Compression Ignition Reciprocating Internal Combustion Engine Less than 10 liters per cylinder Construction Date: After June 12, 2006 (2021) Engine Certified by EPA
AB-001	230 MMBtu/hr Auxiliary Boiler Natural gas- and No. 2 Fuel Oil-fired Construction Date: 1973
AC-001	230 MMBtu/hr Auxiliary Boiler Natural gas- and No. 2 Fuel Oil-fired Construction Date: 1973

## 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, permit, or allow the emission of smoke from a point source into the open air from any manufacturing, industrial, commercial or waste disposal process which exceeds forty (40) percent opacity subject to the exceptions provided in (a) & (b).

(a) Startup operations may produce emissions which exceed 40% opacity for up to fifteen (15) minutes per startup in any one hour and not to exceed three (3) startups 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 60 percent 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 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, 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 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 For the entire facility, 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 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 gasborne 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**

Emission Point(s)	Applicable Requirement	Condition Number(s)	Pollutant/Parameter	Limit/Standard
AA-001	11 Miss. Admin. Code Pt. 2, R. 1.3. D(1)(b).	3.B.1	PM (Filterable Only)	Emissions shall not exceed $E = 0.8808 * I^{0.1667}$
	11 Miss. Admin. Code Pt. 2, R. 1.4. A(1).	3.B.2	SO <sub>2</sub>	Emissions shall not exceed 4.8 lbs/MMBtu
	40 CFR 63, Subpart DDDDD (National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters) 40 CFR 63.7480, 63.7485, 63.7490(a), (d), and (e), 63.7491(a) and (j), 63.7499(l), (q), (t), and (u), 63.7500(e), and 63.7575, Subpart DDDDD	3.B.3	HAP	Applicability
	40 CFR 63, Subpart UUUUU (National Emission Standards for Hazardous Air Pollutants: Coal- and Oil-Fired Electric Utility Steam Generating Units) 40 CFR 63.9980, 63.9981, 63.9982(a)(1) and (d), 63.9983(b), and 63.10042, Subpart UUUUU	3.B.4	HAP	Applicability
	Acid Rain Program and Continuous Emission Monitoring System Regulations, 40 CFR Parts 72-78	3.B.5	NO <sub>x</sub> SO <sub>2</sub> CO <sub>2</sub>	Applicability
	40 CFR 97, Subpart EEEEE (Cross State Air Pollution Rule (CSAPR) NO <sub>x</sub> Ozone Season Group 2 Trading Program) 40 CFR 97.804, Subpart EEEEE	3.B.6	NO <sub>x</sub> Ozone	Applicability

Emission Point(s)	Applicable Requirement	Condition Number(s)	Pollutant/Parameter	Limit/Standard
AA-002 AA-004 AA-006	11 Miss. Admin. Code Pt. 2, R. 1.3. D(1)(a).	3.B.7	PM (Filterable Only)	0.6 lb/MMBTU
AA-004 AA-006	40 CFR 63, Subpart ZZZZ (National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines) 40 CFR 63.6580, 63.6585(a) and (b), 63.6590(a)(1)(i) and (ii), 63.6590(a)(2)(ii), 63.6590(b)(3)(iii), and 63.6590(c)(6) and (7), Subpart ZZZZ	3.B.8	HAP	Applicability
AA-004	40 CFR 63.6605, Subpart ZZZZ	3.B.9	HAP	Good Air Pollution Control Practices
	40 CFR 63.6625(e)(2), 63.6640(a), Item 9 to Table 6, Subpart ZZZZ	3.B.10		Minimize Emissions
	40 CFR 63.6625(f), Subpart ZZZZ	3.B.11	Hours of Operation	Install and Maintain a Non-resettable Hour Meter
	40 CFR 63.6625(h), Subpart ZZZZ	3.B.12	HAP	Minimize Idle Time
	40 CFR 63.6640(f)(1), (2)(i), (4), Subpart ZZZZ	3.B.13	Hours of Operation	Emergency Use Requirements
AA-006	40 CFR 60, Subpart IIII (Standards of Performance for Stationary Compression Ignition Internal Combustion Engines) 40 CFR 60.4200(a)(2)(ii), Subpart IIII	3.B.14	NMHC + NO <sub>x</sub> PM	Applicability
	40 CFR 60.4205(c), Table 4, 60.4206, Subpart IIII	3.B.15	NMHC + NO <sub>x</sub>	Emissions shall not exceed 4.0 g/KW-hr ( 3.0 g/HP-hr)
			PM	Emissions shall not exceed 0.20 g/KW-hr ( 0.15 g/HP-hr)
	40 CFR 60.4207(b), Subpart IIII and 40 CFR 1090, Subpart D (ULSD Standards) 40 CFR 1090.305, Subpart D	3.B.16	Fuel Usage	Ultra-Low-Sulfur Diesel (USDL) Standards
	40 CFR 60.4209(a), Subpart IIII	3.B.17	Hours of Operation	Install and Maintain a Non-resettable Hour Meter
	40 CFR 60.4211(a), Subpart IIII	3.B.18	NMHC + NO <sub>x</sub> PM	Maintain Manufacturer's Specifications.
	40 CFR 60.4211(c), Subpart IIII	3.B.19		Maintain a Certified Engine
40 CFR 60.4211(f), Subpart IIII	3.B.20	Hours of Operation	Emergency Use Requirements	

- 3.B.1 For Emission Points AA-001, AA-005, AB-001, and AC-001, the maximum permissible emission of ash and/or particulate matter from fossil fuel burning installations of equal to or greater than 10 MMBtu/hr heat input but less than 10,000 MMBtu/hr 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 pound per MMBtu/hr 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.B.2 For Emission Points AA-001, AA-005, AB-001, and AC-001, 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 heat input.

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

- 3.B.3 For Emission Points AA-001, AA-005, AB-001, and AC-001, the permittee is subject to and shall comply with all applicable requirements of the National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters (40 CFR 63, Subpart DDDDD) and General Provisions (40 CFR 63, Subpart A).

Emission Point AA-001 is not subject to Subpart DDDDD while complying with 40 CFR 63.7491(a), Subpart DDDDD. Emission Point AA-005 is a temporary boiler and is not subject to Subpart DDDDD while complying with 40 CFR 63.7491(j) and meeting the definition of a temporary boiler as defined in 40 CFR 63.7575, Subpart DDDDD. Emission Points AB-001 and AC-001 are defined as units designed to burn gas 1 subcategory. Emission Points AB-001 and AC-001 are capable of burning liquid fuel.

(Ref.: 40 CFR 63.7480, 63.7485, 63.7490(a), (d), and (e), 63.7491(a) and (j), 63.7499(l), (q), (t), and (u), 63.7500(e), and 63.7575, Subpart DDDDD)

- 3.B.4 For Emission Points AA-001 the permittee is subject to and shall comply with all applicable requirements of the National Emission Standards for Hazardous Air Pollutants:

Coal- and Oil-Fired Electric Utility Steam Generating Units (40 CFR 63, Subpart UUUUU) and General Provisions (40 CFR 63, Subpart A).

Emission Points AA-001 are natural gas-fired electric utility steam generating units (EGU) capable of burning oil. Natural gas-fired EGUs are not subject to Subpart UUUUU.

(Ref.: 40 CFR 63.9980, 63.9981, 63.9982(a)(1) and (d), 63.9983(b), and 63.10042, Subpart UUUUU)

- 3.B.5 For Emission Point AA-001, the permittee is subject to the Acid Rain Program as specified in 40 CFR Parts 72-78. The permittee shall comply with all applicable requirements of said standards as included in Section 8.0 and specified in the Acid Rain Permit attached to this permit in Appendix B.

(Ref.: 40 CFR Parts 72-78)

- 3.B.6 For Emission Point AA-001, the permittee is subject to and shall comply with the applicable requirements of the Cross State Air Pollution Rule (CSAPR) NO<sub>x</sub> Ozone Season Group 2 Trading Program, 40 CFR 97, Subpart EEEEE and shall comply with the applicable provisions in Section 9.0 of this permit.

(Ref.: 40 CFR 97.804, Subpart EEEEE)

- 3.B.7 For Emission Points AA-002, AA-004, and AA-006, the maximum permissible emission of ash and/or particulate matter from fossil fuel burning installations of less than 10 million BTU per hour heat input shall not exceed 0.6 pounds per million BTU per hour heat input.

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

- 3.B.8 For Emission Points AA-004 and AA-006, the permittee is subject to and shall comply with all applicable requirements of the National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (40 CFR 63, Subpart ZZZZ) and General Provisions (40 CFR 63, Subpart A).

Emission Point AA-006 is a new emergency CI stationary RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions. Emission Point AA-006 shall meet the requirements of Subpart ZZZZ by meeting the requirements of 40 CFR 60, Subpart III.

(Ref.: 40 CFR 63.6580, 63.6585(a) and (b), 63.6590(a)(1)(i) and (ii), 63.6590(a)(2)(ii), 63.6590(b)(3)(iii), and 63.6590(c)(6) and (7), Subpart ZZZZ)

- 3.B.9 For Emission Point AA-004, the permittee shall comply with the applicable emission limitations, operating limitations, and other requirements in 40 CFR 60, Subpart ZZZZ at all times.

At all times, the permittee shall operate and maintain the emergency RICE, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. The general duty to minimize emissions does not require the permittee to make any further efforts to reduce emissions if levels required by the standards have been achieved. Determination of whether such operation and maintenance procedures are being used will be based on information available to the DEQ which may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source.

(Ref.: 40 CFR 63.6605, Subpart ZZZZ)

- 3.B.10 For Emission Point AA-004, the permittee shall operate and maintain the stationary RICE and after-treatment control device (if any) according to the manufacturer's emission-related written instructions or develop a RICE specific maintenance plan which shall provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions.

(Ref.: 40 CFR 63.6625(e)(2), 63.6640(a), Item 9 to Table 6, Subpart ZZZZ)

- 3.B.11 For Emission Point AA-004, the permittee shall install, operate, and maintain a non-resettable hour meter.

(Ref.: 40 CFR 63.6625(f), Subpart ZZZZ)

- 3.B.12 For Emission Point AA-004, the permittee shall minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes.

(Ref.: 40 CFR 63.6625(h), Subpart ZZZZ)

3.B.13 For Emission Point AA-004, the permittee shall operate the emergency stationary RICE according to the requirements in paragraphs (a) through (c) below. In order for the engine to be considered an emergency stationary RICE under 40 CFR 63, Subpart ZZZZ, any operation other than emergency operation, maintenance and testing, emergency demand response, and operation in non-emergency situations for 50 hours per year, as described in paragraphs (a) through (c) below, is prohibited. If the permittee does not operate the engine according to the requirements in paragraphs (a) through (c) below, the engine will not be considered an emergency engine under 40 CFR 63, Subpart ZZZZ and must meet all requirements for non-emergency engines.

- (a) There is no time limit on the use of emergency stationary RICE in emergency situations.
- (b) The permittee may operate emergency stationary RICE for the purposes specified in the following paragraph for a maximum of 100 hours per calendar year. Any operation for non-emergency situations as allowed by paragraph (c) counts as part of the 100 hours per calendar year allowed by paragraph (b).

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

- (c) Emergency stationary RICE located at major sources of HAP may be operated for up to 50 hours per calendar year in non-emergency situations. The 50 hours of operation in non-emergency situations are counted as part of the 100 hours per calendar year for maintenance and testing and emergency demand response provided in paragraph (b) above.

(Ref.: 40 CFR 63.6640(f)(1), (2)(i), (3), Subpart ZZZZ)

3.B.14 For Emission Point AA-006, the permittee is subject to and shall comply with all applicable requirements of the Standards of Performance for Stationary Compression Ignition Internal Combustion Engines (40 CFR 60, Subpart IIII) and General Provisions (40 CFR 60, Subpart A).

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

3.B.15 For Emission Point AA-006, the permittee shall limit Non-Methane Hydrocarbon plus Nitrogen Oxide (NMHC + NO<sub>x</sub>) emissions to 4.0 g/KW-hr (3.0 g/HP-hr) and Particulate Matter (PM) emissions to 0.20 g/KW-hr (0.15 g/HP-hr). The permittee shall operate and maintain the stationary CI ICE so that the engine achieves these emission standards over the entire life of the engine.

(Ref.: 40 CFR 60.4205(c), Table 4, 60.4206, Subpart IIII)

3.B.16 For Emission Point AA-006, the permittee shall use diesel fuel that meets the following requirements for nonroad diesel fuel:

- (a) Diesel fuel shall meet the ultra-low-sulfur diesel (ULSD) standards.
- (b) Maximum sulfur content of 15 parts per million (ppm).
- (c) Diesel fuel shall meet one of the following:
  - (1) Minimum cetane index of 40.
  - (2) Maximum aromatic content of 35 volume percent.

(Ref.: 40 CFR 60.4207(b), Subpart IIII and 40 CFR 1090.305, Subpart D)

3.B.17 For Emission Point AA-006, the permittee shall install, operate, and maintain a non-resettable hour meter.

(Ref.: 40 CFR 60.4209(a), Subpart IIII)

3.B.18 For Emission Point AA-006, the permittee shall comply with the following 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 applicable requirements of 40 CFR part 1068.

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

3.B.19 For Emission Point AA-006, the permittee shall purchase, operate, and maintain an engine certified to the emission standards of Condition 3.B.15 (40 CFR 60.4205(c), Table 4, 60.4206, Subpart III) for the same engine class and National Fire Protection Association (NFPA) nameplate. The permittee shall install and configure the fire pump engine according to the manufacturer's emission-related specifications.

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

3.B.20 For Emission Point AA-006, the permittee shall operate the emergency stationary RICE according to the requirements in paragraphs (a) through (c) below. In order for the engine to be considered an emergency stationary RICE under 40 CFR 60, Subpart III, any operation other than emergency operation, maintenance and testing, emergency demand response, and operation in non-emergency situations for 50 hours per year, as described in paragraphs (a) through (c) below, is prohibited. If the permittee does not operate the engine according to the requirements in paragraphs (a) through (c) below, the engine will not be considered an emergency engine under 40 CFR 60, Subpart III and must meet all requirements for non-emergency engines.

(a) There is no time limit on the use of emergency stationary RICE in emergency situations.

(b) The permittee may operate the emergency stationary RICE for the purposes specified in the following paragraph for a maximum of 100 hours per calendar year. Any operation for non-emergency situations as allowed by paragraph (c) counts as part of the 100 hours per calendar year allowed by paragraph (b).

Each emergency stationary RICE may be operated for maintenance checks and readiness testing, provided that the tests are recommended by federal, state or local government, the manufacturer, the vendor, the regional transmission organization or equivalent balancing authority and transmission operator, or the insurance company associated with the engine. The permittee may petition the DEQ for approval of additional hours to be used for maintenance checks and readiness testing, but a



petition is not required if the permittee maintains records indicating that federal, state, or local standards require maintenance and testing of emergency RICE beyond 100 hours per calendar year.

- (c) Emergency stationary ICE may be operated for up to 50 hours per calendar year in non-emergency situations. The 50 hours of operation in non-emergency situations are counted as part of the 100 hours per calendar year for maintenance and testing provided in paragraph (b) above.

(Ref.: 40 CFR 60.4211(f), Subpart III)

C. Insignificant and Trivial Activity Emission Limitations & Standards

Applicable Requirement	Condition Number(s)	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 from fossil fuel burning installations of less than 10 million BTU per hour heat input shall not exceed 0.6 pounds per million BTU 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 million BTU heat input.

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

D. Work Practice Standards

Emission Point(s)	Applicable Requirement	Condition Number(s)	Pollutant/Parameter	Limit/Standard
AA-004	40 CFR 63.6602, Item 1 of Table 2c, 63.6625(i), Subpart ZZZZ	3.D.1	Maintenance	Change oil and filter every 500 hours of operation. Inspect air cleaner every 1,000 hours of operation. Inspect all hoses and belts every 500 hours of operation.
AB-001 AC-001	40 CFR 63.7500(a)(1) and Item 3 of Table 3, Subpart DDDDD	3.D.2	Maintenance	Conduct an annual tune-up.

3.D.1 For Emission Point AA-004, the permittee shall comply with the following work practice standards, except during periods of startup:

- (a) Change oil and filter every 500 hours of operation or annually, whichever comes first;
- (b) Inspect air cleaner every 1,000 hours of operation or annually, whichever comes first, and replace as necessary, and;
- (c) Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.

The permittee has the option of utilizing an oil analysis program in order to extend the specified oil change requirement in paragraph (a) of this condition. The oil analysis must be performed at the same frequency specified for changing the oil in paragraph (a) of this condition. The analysis program must at a minimum analyze the following three parameters: Total Base Number, viscosity, and percent water content. The condemning limits for these parameters are as follows: Total Base Number is less than 30 percent of the Total Base Number of the oil when new; viscosity of the oil has changed by more than 20 percent from the viscosity of the oil when new; or percent water content (by volume) is greater than 0.5. If all of these condemning limits are not exceeded, the permittee is not required to change the oil. If any of the limits are exceeded, the permittee must change the oil within 2 business days of receiving the results of the analysis; if the engine is not in operation when the results of the analysis are received, the permittee must change the oil within 2 business days or before commencing operation, whichever is later. The permittee must keep records of the parameters that are analyzed as part of the program, the results of

the analysis, and the oil changes for the engine. The analysis program must be part of the maintenance plan for the engine.

During periods of startup, the permittee shall minimize the engine's time spent at idle and minimize the engine's startup time at startup to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes, after which time the non-startup emission limitations apply.

(Ref.: 40 CFR 63.6602, Item 1 of Table 2c, 63.6625(i), Subpart ZZZZ)

- 3.D.2 For Emission Points AB-001 and AC-001, the permittee shall conduct a tune-up of the boilers annually, not to exceed 13 months from the previous tune-up. If the units are not operating on the required date for a tune-up, the tune-up must be conducted within 30 calendar days of startup. The permittee shall conduct the tune-up in accordance with 40 CFR 63.7540(a)(10), Subpart DDDDD.

(Ref.: 40 CFR 63.7500(a)(1) and Item 3 of Table 3, 63.7515(d), 63.7540(a)(10), Subpart DDDDD)

## 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 for the preceding calendar year. If the permit was reissued or modified during the course of the preceding calendar year, the compliance certification shall address each version of the permit. 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).)

## 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 and January 31 for the preceding six-month period. All instances of deviations from permit requirements must be clearly identified in such reports and all required reports must be certified by a responsible official consistent with 11 Miss. Admin. Code Pt. 2, R. 6.2.E. For applicable periodic reporting requirements in 40 CFR Parts 60,

61, and 63, the permittee shall comply with the deadlines in this condition for reporting conducted on a semiannual basis. Additionally, any required quarterly reports shall be submitted by the end of the month following each calendar quarter (i.e., April 30th, July 31st, October 31st, and January 31st), and any required annual reports shall be submitted by January 31st following each calendar year.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)(c)(1)., 40 CFR 60.19(c), 61.10(g), and 63.10(a)(5))

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. Said 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 DEQ 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, upon permit issuance, the monitoring, testing, recordkeeping, and reporting requirements of Section 5 herein supersede the requirements of any preceding permit to construct and/or operate.

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

**B. Specific Monitoring and Recordkeeping Requirements**

Emission Point(s)	Applicable Requirement	Condition Number	Pollutant/Parameter Monitored	Monitoring/Recordkeeping Requirement
AA-001	40 CFR Parts 72-78	5.B.1	NO <sub>x</sub> SO <sub>2</sub> CO <sub>2</sub>	Applicability
	40 CFR Part 75 and Appendix B	5.B.2		CEMS Requirement
AA-001 AA-005 AB-001 AC-001	11 Miss. Admin. Code Pt. 2, R. 6.3.A(3).	5.B.3	Fuel Usage	Monitor and Record Fuel Combustion
AA-004	40 CFR 63.6655(a)(1), (2), (4), and (5), Subpart ZZZZ	5.B.4	HAP	Recordkeeping Requirement
	40 CFR 63.6655(e)(3), Subpart ZZZZ	5.B.5	Maintenance	Recordkeeping Requirement
	40 CFR 63.6655(f)(1), Subpart ZZZZ	5.B.6	Hours of Operation	Recordkeeping Requirement
	40 CFR 63.6660, Subpart ZZZZ	5.B.7	Records	Recordkeeping Standards
AA-005	11 Miss. Admin. Code Pt. 2, R. 6.3.A(3).	5.B.8	Operation	Temporary Boiler Recordkeeping Requirement
AA-006	40 CFR 60.4214(b), Subpart IIII	5.B.9	Hours of Operation	Recordkeeping Requirement
AB-001 AC-001	40 CFR 63.7555(a)(1) and (2) and 63.7560, Subpart DDDDD	5.B.10	HAP	Recordkeeping Requirement

5.B.1 For Emission Point AA-001, the permittee is subject to and shall comply with all applicable monitoring and recordkeeping requirements of the Acid Rain Program as specified in 40 CFR Parts 72-78.

(Ref.: 40 CFR Parts 72-78)

5.B.2 For Emission Point AA-001, the permittee shall conduct all monitoring, recording, testing, and reporting of emissions and emissions monitors (e.g., CEMS, COMS) in accordance with 40 CFR Part 75 (e.g., 40 CFR 75.10-67, etc.) for each affected unit. This includes continuous monitoring, calibration, and the annual Relative Accuracy Test Audits (RATA) required under the standard. The permittee shall maintain a file on site of all measurements, data, reports, and other information required by the Acid Rain Regulations in accordance with Condition 5.A.3, and the records shall be made available upon request by MDEQ personnel.

(Ref.: 40 CFR Part 75 and Appendix B)



5.B.3 For Emission Points AA-001, AA-005, AB-001, and AC-001, the permittee shall monitor and record the following fuel combustion parameters:

- (a) The type, quantity, and quality of fuels combusted on a daily basis or for each new lot or shipment received.
- (b) Heating value in BTU/gallon or BTU/ft<sup>3</sup>.
- (c) The method for determining the sulfur content of the fuel.

The permittee shall keep record in log form or in a similar manner and maintained in accordance with Condition 5.A.3, and the records shall be available upon request by the DEQ.

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

5.B.4 For Emission Point AA-004, the permittee shall keep the following records:

- (a) A copy of each notification and report submitted to comply with 40 CFR 63, Subpart ZZZZ, including all documentation supporting any Initial Notification or Notification of Compliance Status submitted, according to the requirement in 40 CFR 63.10(b)(2)(xiv), Subpart A.
- (b) Records of the occurrence and duration of each malfunction of operation (*i.e.*, process equipment) or the air pollution control and monitoring equipment.
- (c) Records of all required maintenance performed on the air pollution control and monitoring equipment.
- (d) Records of actions taken during periods of malfunction to minimize emissions in accordance with Condition 3.B.9 (40 CFR 63.6605, Subpart ZZZZ), including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation.

(Ref.: 40 CFR 63.6655(a)(1), (2), (4), and (5), Subpart ZZZZ)

5.B.5 For Emission Point AA-004, the permittee shall keep records of the maintenance conducted on the stationary RICE in order to demonstrate that the permittee operated and maintained

the stationary RICE and after-treatment control device (if any) according to the maintenance plan.

(Ref.: 40 CFR 63.6655(e)(3), Subpart ZZZZ)

- 5.B.6 For Emission Points AA-004, the permittee shall keep records of the hours of operation of the engine that is recorded through the non-resettable hour meter. The permittee must document how many hours are spent for emergency operation, including what classified the operation as emergency and how many hours are spent for non-emergency operation.

(Ref.: 40 CFR 63.6655(f)(1), Subpart ZZZZ)

- 5.B.7 For Emission Point AA-004, the permittee shall keep records in a form suitable and readily available for expeditious review according to 40 CFR 63.10(b)(1), Subpart A. The permittee shall keep each record for 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record. The permittee shall keep each record readily accessible in hard copy or electronic form for at least 5 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to 40 CFR 63.10(b)(1), Subpart A.

(Ref.: 40 CFR 63.6660, Subpart ZZZZ)

- 5.B.8 For Emission Point AA-005, the permittee shall keep records to document the use of the temporary boiler. The log shall include the date the temporary boiler arrives, removal date, and total days the temporary boiler is on site.

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

- 5.B.9 For Emission Point AA-006, the permittee shall demonstrate compliance with Condition 3.B.17 (40 CFR 60.4209(a), Subpart IIII) by keeping records of the operation of the engine in emergency and non-emergency service that are recorded through the non-resettable hour meter. The permittee shall record the time of operation of the engine and the reason the engine was in operation during that time.

(Ref.: 40 CFR 60.4214(b), Subpart IIII)

- 5.B.10 For Emission Points AB-001 and AC-001, the permittee shall keep the following records:

- (a) A copy of each report required by Condition 5.C.5 and Condition 5.C.7 (40 CFR 63.7545(h), Subpart DDDDD) submitted to comply with Subpart DDDDD.
- (b) Records of tune ups and other performance evaluations as required in 40 CFR 63.10(b)(2)(viii), Subpart A.

The permittee shall keep records in a form suitable and readily available for expeditious review, according to 40 CFR 63.10(b)(1), Subpart A. The permittee shall keep each record for 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record. The permittee shall keep each record on site, or the records shall be accessible from on site (for example, through a computer network), for at least 2 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to 40 CFR 63.10(b)(1), Subpart A. The permittee may keep the records off site for the remaining 3 years.

(Ref.: 40 CFR 63.7555(a)(1) and (2) and 63.7560, Subpart DDDDD)

C. Specific Reporting Requirements

Emission Point(s)	Applicable Requirement	Condition Number	Pollutant/Parameter Monitored	Reporting Requirement
AA-001	40 CFR Parts 72-78	5.C.1	NO <sub>x</sub> SO <sub>2</sub> CO <sub>2</sub>	Applicability
	40 CFR Part 75 and Appendix B	5.C.2		RATA Reporting
AA-004	11 Miss. Admin. Code Pt. 2, R. 6.3.A(3).	5.C.3	Hours of Operation	Semiannual Report of Emergency and Non-Emergency Usage
	40 CFR 63.6640(b), 63.6650(a) through (d), and Footnote 2 to Table 2d of Subpart ZZZZ, Subpart ZZZZ and 11 Miss. Admin. Code Pt. 2, R. 6.3.A(3).	5.C.4	Work Practices	Deviation Report
AA-005	11 Miss. Admin. Code Pt. 2, R. 6.3.A(3).	5.C.5	Usage	Arrival and Removal of Temporary Boiler Notifications
AA-006	11 Miss. Admin. Code Pt. 2, R. 6.3.A(3).	5.C.6	Hours of Operation	Semiannual Report of Emergency and Non-Emergency Usage
AB-001 AC-001	40 CFR 63.7545(f), Subpart DDDDD	5.C.7	Fuel Usage	Natural gas Curtailment Notification
	40 CFR 63.7545(h), Subpart DDDDD	5.C.8	Applicability	Fuel Switch or Physical Change Notification
	40 CFR 63.7550(a), (b), (c)(5)(i) through (iii), (c)(5)(xiv) and (xvii) , Subpart DDDDD	5.C.9	Work Practices	Annual Tune-up Report

5.C.1 For Emission Point AA-001, the permittee is subject to and shall comply with all applicable notification and reporting requirements of the Acid Rain Program as specified in 40 CFR Parts 72-78.

(Ref.: 40 CFR Parts 72-78)

5.C.2 For Emission Point AA-001, when a RATA is required, the permittee shall submit a written test protocol at least thirty (30) days prior to the proposed test date(s) to obtain approval for test methods and procedures. Also, the permittee shall notify MDEQ in writing at least ten (10) days prior to the intended test date(s) so that an observer may be afforded the opportunity to witness the test(s). After the first successful submittal of a written test protocol, the permittee may request that the re-submittal of the testing protocol be waived for subsequent testing by certifying in writing at least ten (10) days prior to subsequent testing that all conditions for testing remain unchanged such that the original protocol can

and will be followed. The permittee shall submit test reports within sixty (60) days of completion of RATA.

(Ref.: 40 CFR Part 75 and Appendix B)

- 5.C.3 For Emission Point AA-004, the permittee shall submit semiannual reports, in accordance with Condition 5.A.4, summarizing the hours of operation for each engine in the calendar year. This report shall also include what hours were for emergency use and what constituted the emergency and what hours were for non-emergency use.

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

- 5.C.4 For Emission Point AA-004, the permittee shall submit semiannual reports, in accordance with Condition 5.A.4, in each instance in which the work practices listed in Condition 3.D.1 (40 CFR 63.6602, Item 1 of Table 2c, 63.6625(i), Subpart ZZZZ) were not met. These deviations shall be reported according to the following requirements:

- (a) If there were no deviations from any applicable emission limitations or operating limitations, a statement shall be included that there were no deviations from the emission limitations or operating limitations during the reporting period; or
- (b) If there was a deviation from any emission limitation or operating limitation during the reporting period, then the compliance report shall contain the following information:
  - (1) Company name and address.
  - (2) Statement by a responsible official, with that official's name, title, and signature, certifying the accuracy of the content of the report.
  - (3) Date of report and beginning and ending dates of the reporting period.
  - (4) The total operating time of the stationary RICE at which the deviation occurred during the reporting period.
  - (5) Information on the number, duration, and cause of deviations (including unknown cause, if applicable), as applicable, and the corrective action taken.

- (c) If there was a malfunction during the reporting period, the compliance report shall include the number, duration, and a brief description for each type of malfunction which occurred during the reporting period and which caused or may have caused any applicable emission limitation to be exceeded. The report shall also include a description of actions taken by the permittee during a malfunction of an affected source to minimize emissions in accordance with Condition 3.B.9 (40 CFR 63.6605, Subpart ZZZZ), including actions taken to correct a malfunction.

(Ref.: 40 CFR 63.6640(b), 63.6650(a) through (d), and Footnote 2 to Table 2d of Subpart ZZZZ, Subpart ZZZZ and 11 Miss. Admin. Code Pt. 2, R. 6.3.A(3).)

- 5.C.5 For Emission Point AA-005, the permittee shall notify DEQ when the temporary boiler is brought on site, and when the permittee removes the temporary boiler from the site. The two notifications shall be submitted within 10 days of arrival and removal.

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

- 5.C.6 For Emission Point AA-006, the permittee shall submit a semiannual report, in accordance with Condition 5.A.4, summarizing the hours of operation for each engine in the calendar year. This report shall also include what hours were for emergency use and what constituted the emergency and what hours were for non-emergency use.

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

- 5.C.7 For Emission Points AB-001 and AC-001, the permittee shall submit a notification to the DEQ containing the following information in the event of a period of natural gas curtailment or supply interruption, as defined in 40 CFR 63.7575, Subpart DDDDD:

- (a) Company name and address.
- (b) Identification of the affected unit.
- (c) Reason natural gas is unavailable, including the date when the natural gas curtailment was declared or the natural gas supply interruption began.
- (d) Type of alternative fuel to be used.
- (e) Dates when the alternative fuel use is expected to begin and end.

The permittee shall submit the notification of alternative fuel use within 48 hours of the declaration of each period of natural gas curtailment or supply interruption.

(Ref.: 40 CFR 63.7545(f), Subpart DDDDD)

5.C.8 For Emission Points AB-001 and AC-001, if the permittee switches fuels or makes a physical change to a boiler that results in the applicability of a different subcategory, the permittee shall provide notice within 30 days of the switch/change. The notification must identify:

- (a) The name of the owner or operator of the affected source, as defined in 40 CFR 63.7490, Subpart DDDDD, the location of the source, the boiler(s) that have switched fuels, were physically changed, and the date of the notice.
- (b) The currently applicable subcategory under Subpart DDDDD.
- (c) The date upon which the fuel switch or physical change occurred.

(Ref.: 40 CFR 63.7545(h), Subpart DDDDD)

5.C.9 For Emission Points AB-001 and AC-001, the permittee shall submit an annual compliance report detailing the tune-up and corrective maintenance performed. The report shall be postmarked no later than January 31<sup>st</sup> for the preceding calendar year. The compliance report shall address the following:

- (a) Company and Facility name and address.
- (b) Process unit information, emissions limitations, and operating parameter limitations.
- (c) Date report and beginning and ending dates of the reporting period.
- (d) Include the date of the most recent tune-up for each. Include the date of the most recent burner inspection if it was not done annually or was delayed until the next scheduled or unscheduled unit shutdown.
- (e) Statement by a responsible official with that official's name, title, and signature, certifying the truth, accuracy, and completeness of the content of the report.

If there are no deviations, submit a statement that there were no deviations from the work practice standards during the reporting period. If there was a deviation from a work practice

standard for periods of startup and shutdown, during the reporting period, the report must contain the information in 40 CFR 63.7550(d), Subpart DDDDD.

(Ref.: 40 CFR 63.7550(a), (b), (c)(5)(i) through (iii), (c)(5)(xiv) and (xvii) , Subpart DDDDD)



## 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 containing class I, class II or non-exempt substitute refrigerants;
- (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

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
lb/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
PM <sub>2.5</sub>	Particulate Matter less than 2.5 µm in diameter
ppm	Parts per Million
PSD	Prevention of Significant Deterioration
SIP	State Implementation Plan
SO <sub>2</sub>	Sulfur Dioxide
SSM	Startup, Shutdown, and Malfunction
TPY	Tons per Year
TRS	Total Reduced Sulfur
VEE	Visible Emissions Evaluation
VHAP	Volatile Hazardous Air Pollutant
VOHAP	Volatile Organic Hazardous Air Pollutant
VOC	Volatile Organic Compound

**APPENDIX B**  
**Phase II Acid Rain Permit**

## PHASE II ACID RAIN PERMIT

**Issued to:** Entergy Mississippi, Inc. - Plant Gerald Andrus  
**Operated by:** Entergy Mississippi, Inc.  
**ORIS code:** 8054  
**Effective:** DATE through DATE

### Summary of Previous Actions:

This page will be replaced to document new actions each time a new action is taken by the Mississippi Department of Environmental Quality.

<b>1) Draft permit.</b>	<b>May 30, 1997</b>
<b>2) Final Permit issued.</b>	<b>September 12, 1997</b>
<b>3) Draft Permit sent to Public Notice and EPA Review.</b>	<b>June 8, 2004</b>
<b>4) Permit finalized and issued.</b>	<b>September 7, 2004</b>
<b>5) Draft renewal Title V Permit for public and EPA review.</b>	<b>October 6, 2017</b>
<b>6) Permit finalized and issued</b>	<b>December 7, 2017</b>
<b>7) Draft permit for public and EPA comment</b>	

### Present Action:

<b>8) Permit finalized and issued</b>	
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\_\_\_\_\_  
Signature

\_\_\_\_\_  
Date

Krystal Rudolph, P.E.  
Chief, Environmental Permits Division  
Mississippi Department of Environmental Quality  
P.O. Box 2261  
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Telephone (601) 961-5171  
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## PHASE II ACID RAIN PERMIT

**Issued to:** Entergy Mississippi, Inc. - Plant Gerald Andrus  
**Operated by:** Entergy Mississippi, Inc.  
**ORIS code:** 8054  
**Effective:** DATE through DATE

### ACID RAIN PERMIT CONTENTS:

- 1) Statement of Basis.
- 2) SO<sub>2</sub> allowances allocated under this permit and NO<sub>x</sub> requirements for each affected unit.
- 3) Comments, notes, and justifications regarding permit decisions and changes made to the permit application forms during the review process, and any additional requirements or conditions.
- 4) The permit application submitted for this source. The owners and operators of the sources must comply with the standard requirements and special provisions set forth in the application.

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### 1) STATEMENT OF BASIS:

Statutory and Regulatory Authorities: In accordance with the Mississippi Air and Water Pollution Control Law, specifically Miss. Code Ann. §§ 49-17-1 through 49-17-43, and any subsequent amendments, and Titles IV and V of the Clean Air Act, the Mississippi Department of Environmental Quality issues this permit pursuant to the State of Mississippi Air Emissions Operating Permit Regulations for the Purposes of Title V of the Federal Clean Air Act, 11 Miss. Admin. Code Pt. 2, Ch. 6, and the State of Mississippi Acid Rain Program Permit Regulations for Purposes of Title IV of the Federal Clean Air Act, 11 Miss. Admin. Code Pt. 2, Ch. 7.

### 2) SO<sub>2</sub> ALLOWANCE ALLOCATIONS AND NO<sub>x</sub> REQUIREMENTS FOR EACH AFFECTED UNIT:

		2020	2021	2022	2023	2024
AA-001	SO <sub>2</sub> allowances, under Table 2 of 40 CFR Part 73.	NA	NA	NA	NA	NA
	NO <sub>x</sub> limit	N/A				

### 3) COMMENTS, NOTES AND JUSTIFICATIONS:

All affected units are natural gas-fired units (85% of the time), with the capability to burn #2 fuel oil and #6; therefore, the affected units are not subject to the NO<sub>x</sub> requirements outlined in 40 CFR Part 76.

4) **PHASE II PERMIT APPLICATION:**

Attached.