

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

TO OPERATE AIR EMISSIONS EQUIPMENT

THIS CERTIFIES THAT

Entergy Mississippi LLC., Gerald Andrus Plant
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: December 7, 2017

Effective Date: As specified herein.

MISSISSIPPI ENVIRONMENTAL QUALITY PERMIT BOARD



AUTHORIZED SIGNATURE

MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY

Modified: December 14, 2021

Expires: November 30, 2022

Permit No.: 2800-00048

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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).) 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).)
 - (c) 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.)
 - (d) 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 51.166; 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 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."

- 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 air fields, 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, shutdowns and maintenance.

- (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 or 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 standards, or other requirements of an applicable rules and regulations or permit;
 - (iv) That within 5 working days of the time the upset began, the source submitted a written report 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 part 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. Emissions 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, regulations 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 regulations, 11 Mississippi Administrative Code, Part 2, Chapter 1, the Department will consider establishing source specific emission limitations or work practice standards for startups and shutdown. 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).
 - (i) Where an upset is defined in Rule 1.2 occurs during startup or

shutdown, see the upset requirements above.

(Ref.: 11Miss. 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	7275 MMBtu/hr Babcock & Wilcox Utility Boiler. Fuel Type: Natural Gas, No.2 Fuel Oil, and No. 6 Fuel Oil (Plant Gerald Andrus Reference C1, Unit 1). <i>Emission Points AA-001, AB-001, and AC-001 exhaust emissions from fuel combustion through a single stack.</i>
AA-002	5.6 MMBtu/hr Diesel-fired Compression Ignition (CI) Internal Combustion Engine (Plant Gerald Andrus Reference C4, 800hp Diesel-fired Emergency Generator).
AA-004	1.05 MMBtu/hr Diesel-fired Internal Compression Ignition (CI) Combustion Engine (Plant Gerald Andrus Reference C6, 150hp Diesel-fired Backup Generator for AA-006 (Emergency Fire Pump)
AA-005	90 MMBtu/hr Temporary Auxiliary Boiler. Fuel Type: Natural Gas and No.2 Fuel Oil. Emission Point AA-005 will exhaust through an individual stack.
AA-006	2.14 MMBtu/hr (305 hp) Diesel-fired Emergency Fire Pump
AB-001	230 MMBtu/hr Auxiliary Boiler. Fuel Type: Natural Gas, No. 2 Fuel Oil, and No. 6 Fuel Oil (Plant Gerald Andrus Reference C1, Auxiliary Boiler No. 1). <i>Emission Points AA-001, AB-001, and AC-001 exhaust emissions from fuel combustion through a common stack.</i>
AC-001	230 MMBtu/hr Auxiliary Boiler. Fuel Type: Natural Gas, No.2 Fuel Oil, and No.6 Fuel Oil (Plant Gerald Andrus Reference C1, Auxiliary Boiler No. 2). <i>Emission Points AA-001, AB-001, and AC-001 exhaust emissions from fuel combustion through a common stack.</i>

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 Paragraph 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 No permit revision shall be required for increases in emissions that are authorized by allowances acquired pursuant to the acid rain program, provided that such increases do not require a permit revision under any other applicable requirement. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.A(4)(a).)
- 3.A.4 Where an applicable requirement of the Federal Act is more stringent than an applicable requirement of regulations promulgated under Title IV of the Federal Act, both provisions shall be incorporated into the permit and shall be enforceable by the Administrator and the DEQ. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.A(1)(b).)

B. Emission Point Specific Emission Limitations & Standards

Emission Point(s)	Applicable Requirement	Condition Number(s)	Pollutant/Parameter	Limit/Standard	
AA-001 (Unit 1 Boiler)	40 CFR 51.308(e), 40 CFR 51, Appendix Y and Site Specific BART Plan	3.B.13	NOx	Best Available Retrofit Technology (BART) Avoidance Limitation	
			SO ₂		
AB-001 and AC-001 (Auxiliary Boilers)	Mississippi Air Regulations 11 Miss. Admin. Code Pt. 2, R. 1.3. D(1)(b).	3.B.1	PM (filterable only)	E = 0.8808 * I ^{0.1667} , where E is the emission rate in pounds per million BTU per hour heat input and I is the heat input in millions of BTU per hour.	0.20 lbs/MMBTU or as otherwise limited by facility restrictions
				0.36 lbs/MMBTU or as otherwise limited by facility restrictions	
AA-001, AB-001, and AC-001 (Boilers and Emergency Generators)	Mississippi Air Regulations 11 Miss. Admin. Code Pt. 2, R. 1.4.A(1).	3.B.2	SO ₂	4.8 lbs/MMBTU or as otherwise limited by facility restrictions	
AA-002, AA-004, and AA-006 (Emergency Generators)	Mississippi Air Regulations 11 Miss. Admin. Code Pt. 2, R. 1.3. D(1)(a).	3.B.3	PM (filterable only)	0.6 lbs/MMBTU or as otherwise limited by facility restrictions	
AA-001 (Unit 1 Boiler)	40 CFR Parts 72-78	3.B.4 and 8.1	SO ₂	Acid Rain Permit and Program Regulation Requirements	
		Appendix B		Phase II Acid Rain Permit	
	40 CFR Part 97 - Subpart BBBBB	3.B.5 and Section 9	NOx	Cross State Air Pollution Rule ("CSAPR") (TR NOx Ozone Season Trading Program)	
AB-001 and AC-001 (Auxiliary Boilers)	40 CFR 63, Subpart DDDDD - NESHAP for Major Sources: Industrial, Commercial, and institutional Boilers and Process Heaters, 40 CFR 63.7485, 63.7490 and 63.7499	3.B.6	HAP	NESHAP Applicability	
AA-002, AA-004 and AA-006 (Emergency Generators)	40 CFR 63, Subpart ZZZZ - NESHAP for Stationary RICE, 40 CFR 63.6585(a) and (b), 40 CFR 63.6590(c)(7)	3.B.7		NESHAP Applicability	
AA-004 (Emergency)	40 CFR 63, Subpart ZZZZ - 40 CFR 63.6640(f)(1), (f)(2) and	3.B.8	HAP	No limit on use during emergency situations; May Operate for 100	

Emission Point(s)	Applicable Requirement	Condition Number(s)	Pollutant/Parameter	Limit/Standard
<i>Generator</i>)	(f)(3)			hours per year for Maintenance and Readiness Testing
AA-001 (Unit 1 Boiler)	40 CFR 63, Subpart UUUUU-40 CFR 63.9983(b) and 40 CFR 63.10042	3.B.9		Non-applicability
	40 CFR 63, Subpart DDDDD, 40 CFR 63.7491(a)			
AA-005 (Temporary Boiler)	40 CFR 63, Subpart DDDDD - Subpart 40 CFR 63.7491(j) and 63.7575	3.B.10		Temporary Boiler Operation and non-applicability
	40 CFR 60 - 40 CFR 60.40c(j) and 60.41c			
AA-005	Title V Permit to Operate Issued July 18, 2005	3.B.11	Hours of Operation	2880 per year based on a 12-month rolling total.
		3.B.12	Sulfur	0.25% Limit
AA-006	40 CFR, Subpart IIII – NSPS for Compression Ignition Combustion Engines, 40 CFR 60.4200(a)(2)	3.B.14	NO _x CO PM	NSPS Applicability
	40 CFR 60.4205(c)	3.B.15		Emissions Limitations
	40 CFR 60.4207(b) and 40 CFR 1090.305	3.B.16	Fuel Requirements	Sulfur content of 15 ppm max., AND Minimum cetane index of 40, OR Maximum aromatic content of 35 volume percent
	40 CFR 60.4209	3.B.17	Exhaust Emissions	Install a non-resettable hour meter prior to initial start-up
	40 CFR 60.4211(a) and (c)	3.B.18		Certified engine
	40 CFR 60.4211(f)(1-3)	3.B.19		Emergency engine requirements

3.B.1 For Emission Points AA-001, AB-001 and AC-001 (*Boilers*), the maximum permissible emission of ash and/or particulate matter when burning fossil fuels 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 million BTU per hour heat input and *I* is the heat input in millions of BTU per hour. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 1.3. D(1)(b).)

- 3.B.2 For Emission Points AA-001, AB-001, and AC-001 (*Facility-wide excluding the temporary generator*), 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 or as otherwise specified herein. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 1.4.A(1).)
- 3.B.3 For Emission Points AA-002, AA-004, and AA-006 (*Emergency Generators*), the maximum permissible emission of ash and/or particulate matter from fossil fuel burning installations of less than 10 MMBtu/hr heat input shall not exceed 0.6 pounds per MMBtu/hr heat input.
- 3.B.4 For Emission Point AA-001 (*Unit 1 Boilers*), the permittee is subject to the Acid Rain Program Regulations as specified in 40 CFR 72-78. The permittee shall comply with all applicable requirements of said standards as included in Section 8 and specified in the Acid Rain Permit attached to this permit in Appendix B. (Ref.: 40 CFR Parts 72-78 and Appendix B)
- 3.B.5 For Emission Points AA-001 (*Unit #1 Boiler*), the permittee is subject to 40 CFR Part 97, Subpart BBBBBB – Cross State Air Pollution Rule (“CSAPR”) and shall comply with the applicable provisions in Section 9.1. The permittee must ensure that the subject units have allocations equal to or greater than the emissions during the ozone season period (May 1 – September 30). (Ref.: 40 CFR Part 97, Subpart BBBBBB)
- 3.B.6 For Emission Points AB-001 and AC-001 (*Auxiliary Boilers*), the permittee is subject to and shall comply with the applicable provisions of 40 CFR 63, Subpart DDDDDD – National Emission Standards for Hazardous Air Pollutants (NESHAP) for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters. Emission Points AB-001 and AC-001 are permitted to burn natural gas, No. 2 fuel oil and No. 6 fuel oil; however, for purposes of determining applicable standards of Subpart DDDDDD, both units are considered large existing units in the “units designed to burn gas 1 fuels” subcategory. Emission Points AB-001 and AC-001 do not have any emission limits and only have to comply with the Work Practice Standards in Section 3.D of this permit. (Ref: 40 CFR 40 CFR 63.7485, 63.7490(a)(1) and (d), 63.7499(l), and 63.7500(a)(1))
- 3.B.7 Emission Points AA-002, AA-004, and AA-006 (*Emergency Generators*), are subject to the National Emission Standards for Hazardous Air Pollutants (NESHAP) for Stationary Reciprocating Internal Combustion Engines (RICE), 40 CFR 63, Subpart ZZZZ. For purposes of this subpart, Emission Point AA-002 is an existing emergency compression ignition stationary RICE with a site rating >500 HP located at a major source of HAPs that

does not operate or is not contractually obligated to be available more than 15 hours per calendar year for the purpose of 63.6640(f)(2)(ii) and (iii) and thus does not have to meet the requirements of this subpart or Subpart A. Emission Point AA-004 is an existing emergency compression ignition stationary RICE with a site rating <500 HP located at a major source of HAPs. The permittee is required to meet the applicable requirements of this standard and the applicable General Provisions, 40 CFR Part 63, Subpart A. Emission Point AA-006 is a new, emergency compression ignition stationary RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions. As such, Emission Point AA-006 shall demonstrate compliance with the requirements of Subpart ZZZZ by complying with the applicable requirements of 40 CFR Part 60, Subpart III – Standards of Performance for Stationary Compression Ignition Internal Combustion Engines. (Ref.: 40 CFR 63.6585(a) and (b)), 63.6590(a)(1), 63.6590(a), 63.6590(b)(3)(iii))

3.B.8 For Emission Point AA-004 (*Emergency Generator*), any operation other than emergency operation, maintenance and testing, and operation in non-emergency situations for 50 hours per year as described in (c) below, is prohibited. If the permittee does not operate the engine according to the requirements in (a)-(c) below, the engine will not be considered an emergency engine under 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 the engine for maintenance checks and readiness testing for a maximum of 100 hours per calendar year provided 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 insurance company associated with the engine. The permittee may petition the MDEQ for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating the federal, state, or local standards require maintenance testing of the engine beyond 100 hours per calendar year.
- (c) The permittee may operate the engine 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) of this section. The 50 hours per 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)(i), and (4))

3.B.9 For Emission Point AA-001 (*Unit 1 Boiler*), the unit is considered a natural gas-fired

Electric Utility Steam Generating Unit (EGU) as defined in 40 CFR 63, Subpart UUUUU, NESHAP for Coal and Oil-Fired Electric Utility Steam Generating Units, and not subject to the requirements of Subpart UUUUU as defined by 40 CFR 63.9983(b). Since the unit burns at least 85 percent natural gas on an annual heat input basis, then the boiler is also not subject to the requirements of 40 CFR 63, Subpart DDDDD, NESHAP for Industrial, Commercial, and Institutional Boilers and Process Heaters, 40 CFR Part 63, Subpart DDDDD. (Ref.: 40 CFR 63.9983(b), 63.10042, and 63.7491(a))

- 3.B.10 For Emission Point AA-005 (*Temporary Boiler*), the permittee shall operate the boiler according to the definition of temporary boiler is 40 CFR 63.7575 and 40 CFR 60.41c and thus the boiler is not subject to 40 CFR 63, Subpart DDDDD, or 40 CFR 60, Subpart Dc. (Ref.: 40 CFR 63.7491(j), 40 CFR 63.7575, 40 CFR 60.40c(i) and 40 CFR 60.41)3.B.13
- 3.B.11 For Emission Point AA-005 (*Temporary Boiler*), the permittee is limited to no more than 2,880 hours of operation as determined for each 12-month rolling total. (Ref.: Title V Permit to Operate issued July 18, 2005)
- 3.B.12 For Emission Point AA-005 (*Temporary Boiler*), the permittee is limited to burning only natural gas or No. 2 fuel oil with a maximum sulfur content of 0.25% weight percent. (Ref.: Title V Permit to Operate issued July 18, 2005)
- 3.B.13 For Emission Point AA-001 (*Unit 1 Boiler*), for avoiding 40 CFR 51.308(e), the Best Available Retrofit Technology (BART) provisions of the Regional Haze Rule, the permittee may burn No. 6 Fuel Oil for no more than 18 days per year on a 3 year rolling average to ensure no impacts to visibility. Oil burn days shall be defined as operating 14 or more hours per day with 1% sulfur oil (No. 6 fuel oil). Any use of No. 6 fuel oil during periods of gas curtailment or gas supply interruption does not count as an oil burn day (Ref.: 40 CFR 51.308(e), 40 CFR 51, Appendix Y and Site Specific BART Plan submitted to MDEQ on December 14, 2012)
- 3.B.14 For Emission Point AA-006, the permittee is subject to and shall comply with all applicable requirements of Standards of Performance for Stationary Compression Ignition Internal Combustion Engines (40 CFR 60, Subpart IIII). Emission Point AA-006 is a Compression Ignition (CI), emergency fire water pump with a rated power of 306 hp located at a major source of HAP emissions. (Ref.: 40 CFR 60.4200(a)(2), Subpart IIII)
- 3.B.15 For Emission Point AA-006, the permittee shall limit the emission rate of Non-Methane Hydrocarbons plus NO_x (NMHC+NO_x) to no more than 3.0 g/HP-hr, the emissions rate of CO to no more than 2.6 g/HP-hr, and the emission rate of Particulate Matter (PM) to no more than 0.15 g/HP-hr. The permittee shall meet these emission standards for the entire life of the engine. (Ref.: 40 CFR 60.4205(c), 60.4206, and Item 7 of Table 4, Subpart IIII)
- 3.B.16 For Emission Point AA-006 the permittee shall use diesel fuel that meets the following requirements:

- (a) Sulfur content:
 - (1) 15 ppm maximum for non-road diesel fuel.
 - (b) Cetane index or aromatic content:
 - (1) A minimum cetane index of 40; or
 - (2) A maximum aromatic content of 35 volume percent.
- (Ref.: 40 CFR 60.4207(b) and 40 CFR 1090.305, Subpart III.)

- 3.B.17 For Emission Point AA-006, the permittee shall install a non-resettable hour meter prior to the startup of the affected engine. (Ref.: 40 CFR 60.4209(a), Subpart III)
- 3.B.18 For Emission Point AA-006, the permittee shall install, operate, and maintain the engine according to the manufacturer's emission related written instructions, may change only those emissions related settings that are permitted by the manufacturer, and the engine must be certified to meet the emissions limitations contained in 3.B.15. (Ref.: 40 CFR 60.4211(a)(1-3) and (c), Subpart III.)
- 3.B.19 The permittee shall operate the emergency engine in accordance with (a) through (c) below so that the engines may continue to be considered "emergency engines". Any operation other than emergency operation, maintenance and testing, emergency demand response, and 50 hours of operation in non-emergency situations as described in (a) through (c) below is prohibited.
- (a) There is no time limit on the use of the engine in emergency situations.
 - (b) The engine may each be operated for a maximum of 100 hours per calendar year for maintenance checks and readiness testing, provided 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 engines. The permittee may petition the DEQ for approval of additional hours to be used for maintenance checks and readiness testing, but such a petition is not required if the permittee keeps records indicating that federal, state, or local standards require maintenance and testing of the engines for more than 100 hours per calendar year.
 - (c) The engine 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 contained in (b). 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 an electrical grid or otherwise supply power as part of a financial agreement with another entity. If the source does have a financial agreement with another entity, the

50 hours of non-emergency operation may be used as long as ALL the conditions in 40 CFR 60.4211(f)(3)(i)(A-E) are met.

If the affected engines do not operate in accordance with the requirements in (a) through (c) above, then the engine will not be considered an emergency engine and must meet all applicable requirements for non-emergency engines. (Ref.: 40 CFR 60.4211(f)(1-3), Subpart III)

C. Insignificant and/or Trivial Activities and Temporary Emission Points 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 (filterable only)	Shall not exceed 0.6 lb/MMBtu per heat input
11 Miss. Admin. Code Pt. 2, R. 1.4.A(1).	3.C.2	SO ₂	Shall not exceed 4.8 lbs/MMBtu (measured as sulfur dioxide) heat input

3.C.1 Except as otherwise specified or limited herein, 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 Except as otherwise specified or limited herein, 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 (Emergency Generator)	49 CFR 63, Subpart ZZZZ - 40 CFR 63.6625(i), 63.6640(c) and Table 2c	3.D.1	HAP	Change oil and filter every 500 hours of operation or annually, whichever comes first; Inspect air cleaner every 1,000 hours of operation or annually, whichever comes first, and replace as necessary; and Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary
	49 CFR 63, Subpart ZZZZ - 40 CFR 40.63.6605(a)	3.D.2		Operate and maintain the engines in a manner consistent with safety and good air pollution control practices for minimizing emissions.
AB-001 and AC-001 (Auxiliary Boilers)	40 CFR 63, Subpart DDDDD - 40 CFR 63.7500, 63.7540(a)(10) and Table 3	3.D.3		Tune-ups

3.D.1 For Emission Point AA-004 (Emergency Generators), the permittee shall comply with the following requirements:

- (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;
- (c) Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary (Ref.: 40 CFR 63.6625(i), 63.6640(c) and Table 2c)

3.D.2 For Emission Points AA-004 (*Emergency Generators*), the permittee shall, at all times, be in compliance with the applicable requirements of Subpart ZZZZ and shall operate and maintain the engine 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 Subpart ZZZZ have been achieved. Determination of whether such operation and maintenance procedures are being used will be based on information available to the MDEQ 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 40.63.6605(a))

3.D.3 For Emission Points AB-001 and AC-001 (*Auxiliary Boilers*), the permittee shall complete an annual tune-up of the boilers beginning from the date of the initial tune-up. Each subsequent tune-up shall be completed no more than 13 months after the previous one. If the unit is not operating on the required date of the tune-up, the tune-up must be conducted within 30 calendar days of startup. The tune-up must be completed in accordance with (a) through (f) below

- (a) As applicable, inspect the burner, and clean or replace any components of the burner as necessary (you may delay the burner inspection until the next scheduled unit shutdown not to exceed 72 months from the previous burner inspection). At units where entry into a piece of process equipment or into a storage vessel is required to complete the tune-up inspections, inspections are required only during planned entries into the storage vessel or process equipment;
- (b) Inspect the flame pattern, as applicable, and adjust the burner as necessary to optimize the flame pattern. The adjustment should be consistent with the manufacturer's specifications, if available;
- (c) Inspect the system controlling the air-to-fuel ratio, as applicable, and ensure that it is correctly calibrated and functioning properly (you may delay the inspection until the next scheduled unit shutdown).
- (d) Optimize total emissions of CO. This optimization should be consistent with the manufacturer's specifications, if available, and with any NO_x requirement to which the unit is subject;
- (e) Measure the concentrations in the effluent stream of CO in parts per million, by volume, and oxygen in volume percent, before and after the adjustments are made (measurements may be either on a dry or wet basis, as long as it is the same basis before and after the adjustments are made). Measurements may be taken using a portable CO analyzer; and
- (f) Maintain on-site and submit, if requested by MDEQ, a report containing the following information listed in (1) through (3) of this section:
 - (1) The concentrations of CO in the effluent stream in parts per million, by volume, and oxygen in volume percent, measured at high fire or typical operating load, before and after the tune-up of the boiler.

- (2) A description of any corrective actions taken as a part of the tune-up of the boiler.

- (3) The type and amount of fuel used over the 12 months prior to the tune-up of the boiler, but only if the unit was physically and legally capable of using more than one type of fuel during that period. Units sharing a fuel meter may estimate the fuel use by each unit. (Ref.: 40 CFR 63.7515(d), 63.7540(a)(10)(i)-(vi), and(13), and Table 3 of 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. 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.: APC-S-6, Section III.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.
- 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)(i)- (vi).)
- 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 March 1 and September 1 for the preceding six-month period. All instances of deviations from permit requirements must be clearly identified in such reports and all required reports must be certified by a responsible official consistent with 11 Miss. Admin. Code Pt. 2, R. 6.2.E. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)(c)(1).)
- 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) 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.
- 5.A.7 The permittee shall maintain records of any alterations, additions, or changes in equipment or operation.

B. Specific Monitoring and Recordkeeping Requirements

Emission Point(s)	Pollutant/Parameter Monitored	Monitoring/Recordkeeping Requirement	Condition Number	Applicable Requirement
AA-001, AB-001, and AC-001 (Boilers)	Fuel Usage	Monitoring and Recordkeeping Requirements	5.B.1	11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)(a)(2).
AB-001 and AC-001 (Boilers)		Alternative fuel requirements	5.B.2	11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)(a)(2).
AA-001 (Unit 1 Boiler)	SO ₂	Comply with Monitoring Provisions of Acid Rain Permit	5.B.3	Acid Rain Regulations, 40 CFR 72-78, 11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)(a)(2).
AB-001 and AC-001 (Auxiliary Boilers)	Opacity		Visual observations of emissions on a weekly basis when operating for more than 24 consecutive hours and combusting fuel oil	
AA-001 (Unit 1 Boiler)	NO _x	Monitoring, Recordkeeping, Testing, and Reporting	5.B.18 and Section 9.1	CSAPR, 40 CFR Part 97 - Subpart BBBBB
AA-004 (Emergency Generator)	HAP	40 CFR 63, Subpart ZZZZ - Install a non-resettable hour meter if one is not already installed	5.B.5	40 CFR 63.6625(f)
		40 CFR 63, Subpart ZZZZ -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	5.B.6	40 CFR 63.6602, 40 CFR 63.6625(e)(2), (h), and Table 2c
		40 CFR 63, Subpart ZZZZ - Operate and maintain the engine according to the manufacturer's emission-related written instructions or develop and follow a maintenance plan	5.B.7	40 CFR 63.6625(e), 40 CFR 63.6640(a), and Table 6
		40 CFR 63, Subpart ZZZZ - Operate and maintain the engines in a manner consistent with safety and good air pollution control practices for minimizing emissions.	5.B.8	40 CFR 40 63.6605(a)
AA-004 (Emergency Generator)	Recordkeeping Requirements	40 CFR 63, Subpart ZZZZ - Maintain records of notification and reports submitted, maintenance performed, the occurrence and duration of malfunctions, and actions taken to minimize emissions during malfunctions.	5.B.9	40 CFR 63.6655(a), (e), and (f)

Emission Point(s)	Pollutant/Parameter Monitored	Monitoring/Recordkeeping Requirement	Condition Number	Applicable Requirement
	Recordkeeping Requirements	40 CFR 63, Subpart ZZZZ - Must keep records in a form readily available for review.	5.B.10	40 CFR 63.6660
AB-001 and AC-001 (Auxiliary Boilers)	HAP	40 CFR 63, Subpart DDDDD - Continuous Compliance	5.B.11	40 CFR 63.7540(a)(10) and (13)
		40 CFR 63, Subpart DDDDD - Natural Gas Curtailment	5.B.12	40 CFR 63.7545(f)
		40 CFR 63, Subpart DDDDD - Fuel Change	5.B.13	40 CFR 63.7510(k), 63.7495(h) and 63.7545(h)
		40 CFR 63, Subpart DDDDD - Recordkeeping	5.B.14	40 CFR 63.7555(a)(1) and (h), 63.7560, and 63.10(b)(2)
AA-005 (Temporary Boiler)	Hours	Hours of Operation	5.B.15	Title V Permit to Operate Issued July 18, 2005
	Sulfur Content	Monitoring and Recordkeeping	5.B.16	
AA-001 (Unit 1 Boiler)	BART Avoidance	Record Type, Amount, and Duration	5.B.17	40 CFR 51.308(e) and 40 CFR 51, Appendix Y
AA-006	Exhaust Emissions	40 CFR 60, Subpart IIII – Maintain records of the operation of engine in emergency and non-emergency situations	5.B.19	40 CFR 60.4214(b)

5.B.1 For Emission Points AA-001, AB-001, and AC-001 (*Boilers*), the permittee shall record and maintain records of the following:

- (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/gal or BTU/ft³
- (c) Fuel oil sulfur content (% by weight); and
- (d) The method for determining the sulfur content of the fuel.

The records shall be kept in log form or in a similar manner and maintained in accordance with Condition 5.A.3, and the records shall be made available upon request by MDEQ

personnel. The permittee shall submit a summarized report in accordance with Condition 5.A.4. (Ref.: Mississippi Air Regulations, 11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)(a)(2))

- 5.B.2 For Emission Points AB-001, and AC-001 (*Boilers*), if the permittee burns No.2 and No.6 fuel oil such that the permittee will no longer be classified as a Gas 1 Fuel Subcategory the permittee shall notify the MDEQ within 48 hours of burning these alternative fuels and keeps records of the type, amount, and duration of event for each unit. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)(a)(2).)
- 5.B.3 For Emission Points AA-001 (Unit 1 Boiler), 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.

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.B.4 For Emission Points AA-001 (Unit 1 Boiler), the permittee shall monitor opacity utilizing continuous opacity monitors (COMs), installed and operated to comply with the Acid Rain Program – Title IV (if applicable), to demonstrate compliance with the opacity limitations. If the COM is not applicable, the permittee shall perform visual observations on a weekly basis while the emission points are operating for more than 24 consecutive hours and combusting No. 6 or No. 2 fuel oil. If any visible emissions are detected during the observation period of six (6) consecutive minutes, a visible emission evaluation (VEE) shall be performed in accordance with EPA Reference Method 9. If a VEE is performed using EPA Reference Method 9, then the observation period shall consist of a minimum of eighteen (18) consecutive minutes. Further, the permittee shall maintain a record and/or a log documenting all visual observations/tests, the nature and cause of any visible emissions, any corrective actions (s) taken to prevent or minimize the emissions, and the date and time when visible emission observations were conducted. These records and/or log shall be maintained in accordance with Conditions 5.A.3, and the records shall be made available upon request

by MDEQ personnel. The permittee shall submit a summarized report in accordance with Condition 5.A.4. (Ref.: Acid Rain Regulation 40 CFR Part 72-78 and 11 Miss. Admin. Code Pt. 2, R.6.3.A (3))

For Emission Points AB-001 and AC-001, the permittee shall perform visual observations on a weekly basis while the emission points are operating for more than 24 consecutive hours and combusting No. 2 fuel oil. If any visible emissions are detected during the observation period of six (6) consecutive minutes, a visible emission evaluation (VEE) shall be performed in accordance with EPA Reference Method 9. If a VEE is performed using EPA Reference Method 9, then the observation period shall consist of a minimum of eighteen (18) consecutive minutes. Further, the permittee shall maintain a record and/or a log documenting all visual observations/tests, the nature and cause of any visible emissions, any corrective actions(s) taken to prevent or minimize the emissions, and the date and time when visible emission observations were conducted. These records and/or log shall be maintained in accordance with Conditions 5.A.3, and the records shall be made available upon request by MDEQ personnel. The permittee shall submit a summarized report in accordance with Condition 5.A.4. (Ref.: 11 Miss. Admin. Code Pt. 2, R.6.3.A (3))

- 5.B.5 For Emission Point AA-004 (*Emergency Generators*), the permittee shall install a non-resettable hour meter if one is not already installed for determining compliance with 40 CFR 63.6625(f). (Ref.: 40 CFR 63.6625(f))
- 5.B.6 For Emission Point AA-004 (*Emergency Generators*), the permittee must 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, Subpart ZZZZ, 40 CFR 63.6602, 40 CFR 63.6625(e)(2) and (h), and Table 2c)
- 5.B.7 For Emission Point AA-004 (*Emergency Generators*), the permittee must operate and maintain the engine according to the manufacturer's emission-related written instructions or develop and follow a maintenance plan which provides to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution practice for minimizing emissions. (Ref.: 40 CFR 63, Subpart ZZZZ 63.6640(a), 63.6625(e) and Table 6)
- 5.B.8 For Emission Point AA-004 (*Emergency Generators*), the permittee shall, at all times, be in compliance with the applicable requirements of Subpart ZZZZ and shall operate and maintain the engine 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 Subpart ZZZZ have been achieved. Determination of whether such operation and maintenance procedures are being used will be based on information available to the MDEQ 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 40.63.6605(a))

5.B.9 For Emission Point AA-004 (*Emergency Generators*), the permittee shall keep the following records:

- (a) If the permittee must comply with emission and operating limitations, the permittee shall keep records described in paragraphs (a)(1) through (a)(5), (b) and (c).
 - (1) A copy of each notification and report that the permittee submitted to comply with 40 CFR 63, Subpart ZZZZ, including all documentation supporting any Initial Notification or Notification of Compliance Status that you submitted, according to the requirement in 40 CFR 63.10(b)(2)(xiv).
 - (2) Records of the occurrence and duration of each malfunction of operation (i.e., process equipment) or the air pollution control and monitoring equipment.
 - (3) Records of all required maintenance performed on the air pollution control and monitoring equipment.
 - (4) Records of actions taken during periods of malfunction to minimize emissions in accordance with 40 CFR 63.6605(b), including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation. A copy of each report submitted to comply with 40 CFR 63, Subpart ZZZZ;
- (b) The permittee shall maintain records of the maintenance conducted on the stationary RICE in order to demonstrate that you operated and maintained the stationary RICE according to your own maintenance plan;
- (c) The permittee shall keep records of the hours of operation of the engine that is recorded through the non-resettable hour meter. The permittee shall 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(a), (e), and (f))

5.B.10 For Emission Point AA-004 (*Emergency Generators*), the permittee must keep records in a form suitable and readily available for expeditious review according to 40 CFR 63.10(b)(1). The permittee must keep readily accessible records in hard copy or electronic form for five (5) years following the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to 40 CFR 63.10(b)(1). (Ref.: 40 CFR 63.6660)

- 5.B.11 For Emission Points AB-001 and AC-001 (*Auxiliary Boilers*), the permittee shall demonstrate continuous compliance with the applicable work practice standards by conducting a tune-up in accordance with Condition 3.D.3. (Ref.: 40 CFR 63.7540(a)(10))
- 5.B.12 For Emission Points AB-001 and AC-001 (*Auxiliary Boilers*), if the permittee burns an alternative fuel during a period of natural gas curtailment or supply interruption, then the permittee must submit a notification to the MDEQ of the alternative fuel use within 48 hours of the declaration of each period of natural gas curtailment or supply interruption as defined by 63.7575. The notification must include (a) through (e) below:
- (a) Company name and address.
 - (b) Identification of the affected units
 - (c) Reason the permittee is unable to use natural gas, including the date when the natural gas curtailment was declared or the natural gas supply interruption began.
 - (d) Type of alternative fuel that the permittee intends to use.
 - (e) Dates that the alternative fuel use is expected to begin and end. (Ref.: 40 CFR 63.7545(f))
- 5.B.13 For Emission Points AB-001 and AC-001 (*Auxiliary Boilers*), if the permittee switches fuels, such that the boilers would no longer be considered in the “units designed to burn gas 1 fuels” subcategory under Subpart DDDDD, the permittee must determine which subcategory applies to the boilers and must demonstrate compliance with all applicable requirements of Subpart DDDDD within 60 days of the effective fuel switch. The permittee shall submit a notice to the MDEQ within 30 days of the date upon which the fuel switch occurs. The notice must include (a) through (c) below:
- (a) The name of the owner, location, the boilers that have switched fuels and the date of the notice.
 - (b) Which subcategory the boilers are in now after the fuel change.
 - (c) The date upon which the fuel switch occurred.

The permittee must also be in compliance with the applicable existing source provisions of Subpart DDDDD for the new applicable subcategory on the effective date of the fuel switch. (Ref.: 40 CFR 63.7510(k), 63.7495(h), and 63.7545(h))

- 5.B.14 For Emission Points AB-001 and AC-001 (*Auxiliary Boilers*), the permittee must keep all

records readily available for review. The permittee shall keep a copy each notification and report submitted to comply with Subpart DDDDD, including all documentation supporting the Notification of Compliance Status or compliance report. The permittee shall keep records of the total hours per calendar year that an alternative fuel is burned in accordance with 5.B.1 and the total hours per calendar year that the boilers operated during those times. These records shall be retained for 5 years following the date of each occurrence, measurement, maintenance, corrective action, report or record. The permittee is required to keep the records on site for a period of 2 years after the event and then they may be kept offsite for the remaining three years. (Ref.: 40 CFR 63.7555(a)(1) and (h), 63.7560, and 63.10(b)(2))

5.B.15 For Emission Point AA-005 (*Temporary Boiler*), the permittee shall monitor and record the total hours of operation on a daily basis and on a 12-month rolling total. The permittee shall also record whenever a temporary unit is brought onsite and when the temporary boiler is removed from the site. All records requested by this permit shall be maintained for review by Office of Pollution Control personnel for at least five (5) years from the date of operation. (Ref.: Title V Permit to Operate Issued July 18, 2005 and Mississippi Air Regulations, 11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)(a)(2))

5.B.16 For Emission Point AA-005 (*Temporary Boiler*), the permittee shall sample the existing fuel oil bulk storage tank for percent sulfur and also sample the fuel tank after each new shipment to demonstrate that the oil contains 0.25% weight percent sulfur or less. These records shall consist of fuel type, quality and quantity, and the heating value (BTU/gal or BTU/ft³). Additionally, when burning fuel oil, the permittee shall maintain records to document the sulfur content (% by weight) for fuel oil burned on a daily basis or for each lot or shipment received. (Ref.: Title V Permit to Operate Issued July 18, 2005)

5.B.17 For Emission Point AA-001 (*Unit 1 Boiler*), if the permittee burns No. 6 Fuel Oil, the permittee shall record the following for determining compliance with 40 CFR 51.308(e), the Best Available Retrofit Technology (BART) provisions of the Regional Haze Rule:

- (a) The type, amount, and quality of fuel(s) combusted;
- (b) The number of days, number of consecutive days, and yearly average that the fuel(s) were combusted;
- (c) Heating value in BTU/gal or BTU/ft³;
- (d) Fuel oil sulfur content (% by weight); and
- (e) The method for determining the sulfur content of the fuel. (Ref.: 40 CFR 51.308(e), 40 CFR 51, Appendix Y and Title V Permit to Operate Issued Issuance Date)

5.B.18 For Emission Point AA-001 (*Unit #1 Boilers*), the permittee shall comply with all applicable

monitoring, recordkeeping, and testing requirements of CSAPR as defined in Section 9.1. The permittee shall maintain files on site of all measurements, monitoring, and data and other relative information required by CSAPR in accordance with Condition 5.A.3, and the records shall be made available upon request by MDEQ personnel. (Ref.: Cross State Air Pollution Rule, 40 CFR 97, Subpart BBBBB and Section 9.1)

- 5.B.19 For Emission Point AA-006, the permittee shall keep records of the operation of the engine in emergency and non-emergency service that is recorded through the non-resettable hour meter. The permittee shall record the time and reason that the engine is being operated. (Ref.: 40 CFR 60.4214(b))

C. Specific Reporting Requirements

Emission Point(s)	Pollutant/ Parameter Monitored	Reporting Requirement	Condition Number	Applicable Requirement
AA-004 <i>(Emergency Generator)</i>	HAP	40 CFR 63, Subpart ZZZZ - Reporting Requirements	5.C.1	40 CFR 63.6640(b) and Table 2c
			5.C.2	40 CFR 63.6650(a) and (c)
			5.C.3	40 CFR 6640(e)
AB-001 and AC-001 <i>(Auxiliary Boilers)</i>		40 CFR 63, Subpart DDDDD - Compliance Report	5.C.4	40 CFR 63.7550(a)(b), and (c)(5)(i)-(iii),(xiv), and (xvii) and Table 9
AA-005	Hours	Hours of Operation and Notification of Usage	5.C.5	Title V Permit to Operate Issued July 18, 2005
AA-001, AB-001, and AC-001 <i>(Boilers)</i>	BART Avoidance	Report any event (type, amount, and duration)	5.C.6	40 CFR 51.308(e), 40 CFR 51, Appendix Y, and Title V Permit to Operate issued December 7, 2017
AA-001 <i>(Unit #1)</i>	CSAPR	Cross State Air Pollution Rule Reporting Provisions	5.C.7	40 CFR 97, Subpart BBBBB and Section 9.1
AA-006	Hours	Report hours of operation	5.C.8	11 Miss. Admin. Code Pt. 2, R. 2.2.B(11).

- 5.C.1 For Emission Point AA-004 (*Emergency Generators*), the permittee shall report each instance in which the maintenance practices listed in Condition 3.D.1 were not met. These instances are deviations and must be reported within five (5) business days in accordance with Condition 5.A.5. If the maintenance practices were not performed on the required schedule because it poses an unacceptable risk under Federal, State, or local law at the time of the required scheduled maintenance, the report must include the Federal, State, or local law under which the risk was deemed unacceptable. (Ref.: 40 CFR 63.6640(b) and Table 2c of Subpart ZZZZ)
- 5.C.2 For Emission Point AA-004 (*Emergency Generators*), the permittee shall submit compliance reports that include all applicable information in 40 CFR 63.6650(c) semiannually, in accordance with Condition 5.A.4. (Ref.: 40 CFR 63.6650(a) and (c))

- 5.C.3 For Emission Point AA-004 (*Emergency Generators*), the permittee shall report each instance when the applicable requirements of Table 8 of Subpart ZZZZ were not met, in accordance with Condition 5.A.4. (Ref.: 40 CFR 63.6640(e))
- 5.C.4 For Emission Points AB-001 and AC-001 (*Auxiliary Boilers*), the permittee shall submit the information listed in (a) through (e) in accordance with the next required report per Condition 5.A.4 once the tune-up required in Condition 3.D.3 has been completed.
- (a) Company and Facility name and address
 - (b) Process unit information
 - (c) Date of report and beginning and ending dates of reporting period.
 - (d) The date of the most recent tune-up for Emission Points AB-001 and AC-001. Include the date of the most recent burner inspection, if it was not done annually and 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. (Ref.: 40 CFR 63.7550(a), (b), and (c)(5)(i)-(iii), (xiv), and (xvii) and Table 9 of Subpart DDDDD). (Ref.: 40 CFR 63.7555(a)(1) and (h), 63.7560, and 63.10(b)(2))
- 5.C.5 For Emission Point AA-005 (*Temporary Boilers*), the permittee shall submit semi-annual reports showing the hours of operation on a daily basis and a 12-month rolling total, and the sulfur content of fuel as determined from the supplier after each new shipment. The permittee shall also document each time a temporary boiler is brought onsite and when it is removed. The permittee shall submit these reports on the semi-annual in accordance with Condition 5.A.4. (Ref.: Title V Permit to Operate Issued July 18, 2005 and Issuance Date)
- 5.C.6 For Emission Point AA-001 (*Unit #1 Boiler*), for determining compliance with 40 CFR 51.308(e), the Best Available Retrofit Technology (BART) provisions of the Regional Haze Rule,, the permittee shall report to the MDEQ within 48 hours the beginning of any burn utilizing No. 6 Fuel Oil and submit a report within 30 days upon the completion of a burn utilizing No. 6 Fuel Oil containing the information in 5.C.17. (Ref.: 40 CFR 51.308(e), 40 CFR 51, Appendix Y and Title V Permit to Operate Issuance Date)
- 5.C.7 For Emission Point AA-001 (*Unit #1 Boiler*), the permittee shall comply with all applicable reporting requirements of CSAPR as defined in Section 9.1. The permittee shall submit a summarized report in accordance with Condition 5.A.4. (Ref.: Cross State Air Pollution Rule, 40 CFR 97, Subpart BBBBB and Section 9.1)

- 5.C.8 For Emission Point AA-006, the permittee shall submit a summary report of the hours of operation that includes all the information required by Condition 5.B.9. (Ref.: 11 Miss. Admin Code Pt. 2, R. 2.2.B(11).)

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://ecfr.gpoaccess.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, persons selling class I or class II refrigerants or offering class I or class II refrigerants for sale, and persons purchasing class I or class II 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.

SECTION 8. ACID RAIN (TITLE IV) REQUIREMENTS

The permittee shall comply with all requirements of the Phase II Acid Rain Permit attached as Appendix B of this permit. All conditions of the Phase II Acid Rain Permit are effective from the dates specified in the Acid Rain Permit; however, these conditions may be revised by the MDEQ during the permit period. (Ref.: 40 CFR 72)

SECTION 9. CROSS STATE AIR POLLUTION RULE

9.1. Description of Transport Rule (TR) Monitoring Provisions

The TR subject units and the unit-specific monitoring provisions at this source are identified in the following Tables. These units are subject to the requirements for the TR NOx Ozone Season Trading Program

Unit ID: AA-001					
Parameter	Continuous emission monitoring system or systems (CEMS) requirements pursuant to 40 CFR part 75, subpart B (for SO ₂ monitoring) and 40 CFR part 75, subpart H (for NO _x monitoring)	Excepted monitoring system requirements for gas- and oil-fired units pursuant to 40 CFR part 75, appendix D	Excepted monitoring system requirements for gas- and oil-fired peaking units pursuant to 40 CFR part 75, appendix E	Low Mass Emissions excepted monitoring (LME) requirements for gas- and oil-fired units pursuant to 40 CFR 75.19	EPA-approved alternative monitoring system requirements pursuant to 40 CFR part 75, subpart E
NO _x	X				
Heat input		X			

9.2. The above description of the monitoring used by a unit does not change, create an exemption from, or otherwise affect the monitoring, recordkeeping, and reporting requirements applicable to the unit under 40 CFR 97.530 through 97.535. The monitoring, recordkeeping and reporting requirements applicable to each unit are included below in the standard conditions for the applicable TR trading programs.

9.3. The permittee must submit to the Administrator a monitoring plan for each unit in accordance with 40 CFR 75.53, 75.62 and 75.73, as applicable. The monitoring plan for each unit is available at the EPA's website at <http://www.epa.gov/airmarkets/emissions/monitoringplans.html>.

9.4. The permittee that wants to use an alternative monitoring system must submit to the Administrator a petition requesting approval of the alternative monitoring system in

accordance with 40 CFR part 75, subpart E and 40 CFR 75.66 and 97.535. The Administrator's response approving or disapproving any petition for an alternative monitoring system is available on the EPA's website at <http://www.epa.gov/airmarkets/emissions/petitions.html>.

- 9.5. The permittee that wants to use an alternative to any monitoring, recordkeeping, or reporting requirement under 40 CFR 97.530 through 97.534 must submit to the Administrator a petition requesting approval of the alternative in accordance with 40 CFR 75.66 and 97.535. The Administrator's response approving or disapproving any petition for an alternative to a monitoring, recordkeeping, or reporting requirement is available on EPA's website at <http://www.epa.gov/airmarkets/emissions/petitions.html>.
- 9.6. The descriptions of monitoring applicable to the unit included above meet the requirement of 40 CFR 97.530 through 97.534, and therefore minor permit modification procedures, in accordance with 40 CFR 70.7(e)(2)(i)(B) or 71.7(e)(1)(i)(B), may be used to add to or change this unit's monitoring system description.
- 9.7. TR NO_x Ozone Season Trading Program Requirements (40 CFR 97.506)
 - (a) Designated representative requirements - The permittee shall comply with the requirement to have a designated representative, and may have an alternate designated representative, in accordance with 40 CFR 97.513 through 97.518.
 - (b) Emissions monitoring, reporting, and recordkeeping requirements.
 - (1) The permittee, and the designated representative, of each TR NO_x Ozone Season source and each TR NO_x Ozone Season unit at the source shall comply with the monitoring, reporting, and recordkeeping requirements of 40 CFR 97.530 (general requirements, including installation, certification, and data accounting, compliance deadlines, reporting data, prohibitions, and long-term cold storage), 97.531 (initial monitoring system certification and recertification procedures), 97.532 (monitoring system out-of-control periods), 97.533 (notifications concerning monitoring), 97.534 (recordkeeping and reporting, including monitoring plans, certification applications, quarterly reports, and compliance certification), and 97.535 (petitions for alternatives to monitoring, recordkeeping, or reporting requirements).
 - (2) The emissions data determined in accordance with 40 CFR 97.530 through 97.535 shall be used to calculate allocations of TR NO_x Ozone Season allowances under 40 CFR 97.511(a)(2) and (b) and 97.512 and to determine compliance with the TR NO_x Ozone Season emissions limitation and assurance provisions under paragraph (c) below, provided that, for each monitoring location from which mass emissions are reported, the mass emissions amount used in calculating such allocations and determining such compliance shall be

the mass emissions amount for the monitoring location determined in accordance with 40 CFR 97.530 through 97.535 and rounded to the nearest ton, with any fraction of a ton less than 0.50 being deemed to be zero.

(c) NO_x emissions requirements.

(1) TR NO_x Ozone Season emissions limitation.

(i) As of the allowance transfer deadline for a control period in a given year, the owners and operators of each TR NO_x Ozone Season source and each TR NO_x Ozone Season unit at the source shall hold, in the source's compliance account, TR NO_x Ozone Season allowances available for deduction for such control period under 40 CFR 97.524(a) in an amount not less than the tons of total NO_x emissions for such control period from all TR NO_x Ozone Season units at the source.

(ii) If total NO_x emissions during a control period in a given year from the TR NO_x Ozone Season units at a TR NO_x Ozone Season source are in excess of the TR NO_x Ozone Season emissions limitation set forth in paragraph (c)(1)(i) above, then:

(A) The owners and operators of the source and each TR NO_x Ozone Season unit at the source shall hold the TR NO_x Ozone Season allowances required for deduction under 40 CFR 97.524(d); and

(B) The owners and operators of the source and each TR NO_x Ozone Season unit at the source shall pay any fine, penalty, or assessment or comply with any other remedy imposed, for the same violations, under the Clean Air Act, and each ton of such excess emissions and each day of such control period shall constitute a separate violation of 40 CFR part 97, subpart BBBB and the Clean Air Act.

(2) TR NO_x Ozone Season assurance provisions.

(i) If total NO_x emissions during a control period in a given year from all TR NO_x Ozone Season units at TR NO_x Ozone Season sources in the state (and Indian country within the borders of such state) exceed the state assurance level, then the owners and operators of such sources and units in each group of one or more sources and units having a common designated representative for such control period, where the common designated representative's share of such NO_x emissions during such control period exceeds the common designated representative's assurance

level for the state and such control period, shall hold (in the assurance account established for the owners and operators of such group) TR NO_x Ozone Season allowances available for deduction for such control period under 40 CFR 97.525(a) in an amount equal to two times the product (rounded to the nearest whole number), as determined by the Administrator in accordance with 40 CFR 97.525(b), of multiplying—

- (A) The quotient of the amount by which the common designated representative's share of such NO_x emissions exceeds the common designated representative's assurance level divided by the sum of the amounts, determined for all common designated representatives for such sources and units in the state (and Indian country within the borders of such state) for such control period, by which each common designated representative's share of such NO_x emissions exceeds the respective common designated representative's assurance level; and
 - (B) The amount by which total NO_x emissions from all TR NO_x Ozone Season units at TR NO_x Ozone Season sources in the state and Indian country within the borders of such state) for such control period exceed the state assurance level.
- (ii) The permittee shall hold the TR NO_x Ozone Season allowances required under paragraph 93.7 (c)(2)(i) above, as of midnight of November 1 (if it is a business day), or midnight of the first business day thereafter (if November 1 is not a business day), immediately after such control period.
 - (iii) Total NO_x emissions from all TR NO_x Ozone Season units at TR NO_x Ozone Season sources in the state (and Indian country within the borders of such state) during a control period in a given year exceed the state assurance level if such total NO_x emissions exceed the sum, for such control period, of the State NO_x Ozone Season trading budget under 40 CFR 97.510(a) and the state's variability limit under 40 CFR 97.510(b).
 - (iv) It shall not be a violation of 40 CFR part 97, subpart BBBBBB or of the Clean Air Act if total NO_x emissions from all TR NO_x Ozone Season units at TR NO_x Ozone Season sources in the state (and Indian country within the borders of such state) during a control period exceed the state assurance level or if a common designated representative's share of total NO_x emissions from the TR NO_x Ozone Season units at TR NO_x Ozone Season sources in the state (and Indian country within the borders of such

state) during a control period exceeds the common designated representative's assurance level.

- (v) To the extent the permittee fails to hold TR NO_x Ozone Season allowances for a control period in a given year in accordance with paragraphs 9.7(c)(2)(i) through (iii) above,
 - (A) The permittee shall pay any fine, penalty, or assessment or comply with any other remedy imposed under the Clean Air Act; and
 - (B) Each TR NO_x Ozone Season allowance that the permittee fails to hold for such control period in accordance with paragraphs 9.7(c)(2)(i) through (iii) above and each day of such control period shall constitute a separate violation of 40 CFR part 97, subpart BBBBBB and the Clean Air Act.

(3) Compliance periods.

- (i) A TR NO_x Ozone Season unit shall be subject to the requirements under paragraph 9.7(c)(1) above for the control period starting on the later of May 1, 2015 or the deadline for meeting the unit's monitor certification requirements under 40 CFR 97.530(b) and for each control period thereafter.
- (ii) A TR NO_x Ozone Season unit shall be subject to the requirements under paragraph (c)(2) above for the control period starting on the later of May 1, 2017 or the deadline for meeting the unit's monitor certification requirements under 40 CFR 97.530(b) and for each control period thereafter.

(4) Vintage of allowances held for compliance.

- (i) A TR NO_x Ozone Season allowance held for compliance with the requirements under paragraph 9.7(c)(1)(i) above for a control period in a given year must be a TR NO_x Ozone Season allowance that was allocated for such control period or a control period in a prior year.
- (ii) A TR NO_x Ozone Season allowance held for compliance with the requirements under paragraphs 9.7(c)(1)(ii)(A) and (2)(i) through (iii) above for a control period in a given year must be a TR NO_x Ozone Season allowance that was allocated for a control period in a prior year or the control period in the given year or in the immediately following year.

- (5) Allowance Management System requirements. Each TR NO_x Ozone Season allowance shall be held in, deducted from, or transferred into, out of, or between Allowance Management System accounts in accordance with 40 CFR part 97, subpart BBBBB.
 - (6) Limited authorization. A TR NO_x Ozone Season allowance is a limited authorization to emit one ton of NO_x during the control period in one year. Such authorization is limited in its use and duration as follows:
 - (i) Such authorization shall only be used in accordance with the TR NO_x Ozone Season Trading Program; and
 - (ii) Notwithstanding any other provision of 40 CFR part 97, subpart BBBBB, the Administrator has the authority to terminate or limit the use and duration of such authorization to the extent the Administrator determines is necessary or appropriate to implement any provision of the Clean Air Act.
 - (7) Property right. A TR NO_x Ozone Season allowance does not constitute a property right.
- (d) Title V permit revision requirements.
- (1) No title V permit revision shall be required for any allocation, holding, deduction, or transfer of TR NO_x Ozone Season allowances in accordance with 40 CFR part 97, subpart BBBBB.
 - (2) This permit incorporates the TR emissions monitoring, recordkeeping and reporting requirements pursuant to 40 CFR 97.530 through 97.535, and the requirements for a continuous emission monitoring system (pursuant to 40 CFR part 75, subparts B and H), an excepted monitoring system (pursuant to 40 CFR part 75, appendices D and E), a low mass emissions excepted monitoring methodology (pursuant to 40 CFR 75.19), and an alternative monitoring system (pursuant to 40 CFR part 75, subpart E). Therefore, the Description of TR Monitoring Provisions table for units identified in this permit may be added to, or changed, in this title V permit using minor permit modification procedures in accordance with 40 CFR 97.506(d)(2) and 70.7(e)(2)(i)(B) or 71.7(e)(1)(i)(B).
- (e) Additional recordkeeping and reporting requirements.
- (1) Unless otherwise provided, the permittee of each TR NO_x Ozone Season source and each TR NO_x Ozone Season unit at the source shall keep on site at the source each of the following documents (in hardcopy or electronic format) for a

period of 5 years from the date the document is created. This period may be extended for cause, at any time before the end of 5 years, in writing by the Administrator.

- (i) The certificate of representation under 40 CFR 97.516 for the designated representative for the source and each TR NO_x Ozone Season unit at the source and all documents that demonstrate the truth of the statements in the certificate of representation; provided that the certificate and documents shall be retained on site at the source beyond such 5-year period until such certificate of representation and documents are superseded because of the submission of a new certificate of representation under 40 CFR 97.516 changing the designated representative.
 - (ii) All emissions monitoring information, in accordance with 40 CFR part 97, subpart BBBBB.
 - (iii) Copies of all reports, compliance certifications, and other submissions and all records made or required under, or to demonstrate compliance with the requirements of, the TR NO_x Ozone Season Trading Program.
- (2) The designated representative of a TR NO_x Ozone Season source and each TR NO_x Ozone Season unit at the source shall make all submissions required under the TR NO_x Ozone Season Trading Program, except as provided in 40 CFR 97.518. This requirement does not change, create an exemption from, or otherwise affect the responsible official submission requirements under a title V operating permit program in 40 CFR parts 70 and 71.
- (f) Liability.
- (1) Any provision of the TR NO_x Ozone Season Trading Program that applies to a TR NO_x Ozone Season source or the designated representative of a TR NO_x Ozone Season source shall also apply to the permittee of such source and of the TR NO_x Ozone Season units at the source.
 - (2) Any provision of the TR NO_x Ozone Season Trading Program that applies to a TR NO_x Ozone Season unit or the designated representative of a TR NO_x Ozone Season unit shall also apply to the permittee of such unit.
- (g) Effect on other authorities - No provision of the TR NO_x Ozone Season Trading Program or exemption under 40 CFR 97.505 shall be construed as exempting or excluding the permittee, and the designated representative, of a TR NO_x Ozone Season source or TR NO_x Ozone Season unit from compliance with any other

provision of the applicable, approved state implementation plan, a federally enforceable permit, or the Clean Air Act.

- (h) Effect on units in Indian country. Notwithstanding the provisions of paragraphs (a) through (g) above, paragraphs (a) through (g) shall be deemed not to impose any requirements on any source or unit, or any owner, operator, or designated representative with regards to any source or unit, in Indian country within the borders of the state.

APPENDIX A

LIST OF ABBREVIATIONS USED IN THIS PERMIT

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.	Regulations for the Prevention of Air Pollution Emergency Episodes
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 _x	Nitrogen Oxides
NSPS	New Source Performance Standards, 40 CFR 60
O&M	Operation and Maintenance
PM	Particulate Matter
PM ₁₀	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 ₂	Sulfur Dioxide
TPY	Tons per Year
TRS	Total Reduced Sulfur
VEE	Visible Emissions Evaluation
VHAP	Volatile 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.
Effective: December 7, 2017 through November 30, 2022

Summary of Previous Actions:

This page will be replaced to document new actions each time a new action is taken by the DEQ. This is the initial permitting action being undertaken:

- | | | |
|----|---|--------------------|
| 1) | Draft permit: | May 30, 1997 |
| 2) | Initial Permit Issuance: | September 12, 1997 |
| 3) | Draft permit for public and EPA comment for permit renewal: | June 8, 2004 |
| 4) | Permit Renewal: | September 7, 2004 |

Present Action:

- | | | |
|----|---|------------------|
| 1) | Draft permit for facility review: | July 12, 2017 |
| 2) | Draft Permit for public and EPA comment for permit renewal: | October 6, 2017 |
| 3) | Permit Renewal: | December 7, 2017 |

Signature	Date
Krystal Rudolph, P.E., BCCE Chief, Environmental Permits Division Mississippi Department of Environmental Quality P.O. Box 2261 Jackson, MS 39225-2261 Telephone: (601) 961-5096 Fax: (601) 961-5742	

PHASE II ACID RAIN PERMIT

Issued to: Entergy Mississippi, Inc., Plant Gerald
Andrus Operated by: Entergy Mississippi, Inc.
ORIS code: 8054
Effective: December 7, 2017 through November 30, 2022

ACID RAIN PERMIT CONTENTS:

- 1. Statement of Basis.**
- 2. SO₂ allowances allocated under this permit and NO_x 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 source must comply with the standard requirements and special provisions set forth in the application.**

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) SO₂ ALLOWANCE ALLOCATIONS AND NO_x REQUIREMENTS FOR EACH AFFECTED UNIT:

Calendar Years		2010 and Beyond
Unit 1 (Emission Point AA-001)	SO ₂ allowances, under Tables 2 of 40 CFR Part 73.	3287
	NO _x limit	NA

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_x requirements outlined in 40 CFR Part 76.

4) PHASE II PERMIT APPLICATION: Attached