

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

**TO OPERATE AIR EMISSIONS EQUIPMENT**

**THIS CERTIFIES THAT**

Cooperative Energy, a Mississippi electric cooperative, Batesville Generating Station  
200 Industrial Drive  
Batesville, Mississippi  
Panola 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 27, 2024

**Effective Date:** As specified herein.

**MISSISSIPPI ENVIRONMENTAL QUALITY PERMIT BOARD**

*Becky Simonson*

**AUTHORIZED SIGNATURE**

**MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY**

**Expires: November 30, 2029**

**Permit No.: 2100-00054**

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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).)

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

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

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

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

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

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

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

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

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

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

- 1.11 The permittee shall allow the DEQ, or an authorized representative, upon the presentation of credentials and other documents as may be required by law, to perform the following:
- (a) enter upon the permittee's premises where a Title V source is located or emissions-related activity is conducted, or where records must be kept under the conditions of this permit;
  - (b) have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
  - (c) inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit; and
  - (d) as authorized by the Federal Act, sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with the permit or applicable requirements.

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

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

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

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

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

- 1.14 Compliance with the conditions of this permit shall be deemed compliance with any applicable requirements as of the date of permit issuance where such applicable requirements are included and are specifically identified in the permit or where the permit contains a determination, or summary thereof, by the Permit Board that requirements specifically identified previously are not applicable to the source.

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

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

- (a) the provisions of Section 303 of the Federal Act (emergency orders), including the authority of the Administrator under that section;
- (b) the liability of an owner or operator of a source for any violation of applicable requirements prior to or at the time of permit issuance;
- (c) the applicable requirements of the acid rain program, consistent with Section 408(a) of the Federal Act.
- (d) the ability of EPA to obtain information from a source pursuant to Section 114 of the Federal Act.

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

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

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

1.17 Expiration of this permit terminates the permittee's right to operate unless a timely and complete renewal application has been submitted. A timely application is one which is submitted at least six (6) months prior to expiration of the Title V permit. If the permittee submits a timely and complete application, the failure to have a Title V permit is not a violation of regulations until the Permit Board takes final action on the permit application. This protection shall cease to apply if, subsequent to the completeness determination, the permittee fails to submit by the deadline specified in writing by the DEQ any additional information identified as being needed to process the application.

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

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

- (a) the changes are not modifications under any provision of Title I of the Act;
- (b) the changes do not exceed the emissions allowable under this permit;
- (c) the permittee provides the Administrator and the Department with written notification in advance of the proposed changes (at least seven (7) days, or such other time frame as provided in other regulations for emergencies) and the notification includes:

- (1) a brief description of the change(s),
  - (2) the date on which the change will occur,
  - (3) any change in emissions, and
  - (4) any permit term or condition that is no longer applicable as a result of the change;
- (d) the permit shield shall not apply to any Section 502(b)(10) change.

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

- 1.19 Should the Executive Director of the Mississippi Department of Environmental Quality declare an Air Pollution Emergency Episode, the permittee will be required to operate in accordance with the permittee's previously approved Emissions Reduction Schedule or, in the absence of an approved schedule, with the appropriate requirements specified in 11 Miss. Admin. Code Pt. 2, Ch. 3., "Regulations for the Prevention of Air Pollution Emergency Episodes" for the level of emergency declared.

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

- 1.20 Except as otherwise provided herein, a modification of the facility may require a Permit to Construct in accordance with the provisions of Regulations 11 Miss. Admin. Code Pt. 2, Ch. 2., "Permit Regulations for the Construction and/or Operation of Air Emissions Equipment," and may require modification of this permit in accordance with Regulations 11 Miss. Admin. Code Pt. 2, Ch. 6., "Air Emissions Operating Permit Regulations for the Purposes of Title V of the Federal Clean Air Act." Modification is defined as [a]ny physical change in or change in the method of operation of a facility which increases the actual emissions or the potential uncontrolled emissions of any air pollutant subject to regulation under the Federal Act emitted into the atmosphere by that facility or which results in the emission of any air pollutant subject to regulation under the Federal Act into the atmosphere not previously emitted. A physical change or change in the method of operation shall not include:

- (a) routine maintenance, repair, and replacement;
- (b) use of an alternative fuel or raw material by reason of an order under Sections 2 (a) and (b) of the Federal Energy Supply and Environmental Coordination Act of 1974 (or any superseding legislation) or by reason of a natural gas curtailment plan pursuant to the Federal Power Act;
- (c) use of an alternative fuel by reason of an order or rule under Section 125 of the Federal Act;
- (d) use of an alternative fuel or raw material by a stationary source which:



- (1) the source was capable of accommodating before January 6, 1975, unless such change would be prohibited under any federally enforceable permit condition which was established after January 6, 1975, pursuant to 40 CFR 52.21 or under regulations approved pursuant to 40 CFR 51, Subpart I, or 40 CFR 51.166; or
- (2) the source is approved to use under any permit issued under 40 CFR 52.21 or under regulations approved pursuant to 40 CFR Part 51, Subpart I, or 40 CFR 51.166;
- (e) an increase in the hours of operation or in the production rate unless such change would be prohibited under any federally enforceable permit condition which was established after January 6, 1975, pursuant to 40 CFR 52.21 or under regulations approved pursuant to 40 CFR Subpart I or 40 CFR 51.166; or
- (f) any change in ownership of the stationary source.

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

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

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

1.22 This permit is a Federally approved operating permit under Title V of the Federal Clean Air Act as amended in 1990. All terms and conditions, including any designed to limit the source's potential to emit, are enforceable by the Administrator and citizens under the Federal Act as well as the Commission.

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

1.23 Except as otherwise specified or limited herein, the open burning of residential, commercial, institutional, or industrial solid waste, is prohibited. This prohibition does not apply to infrequent burning of agricultural wastes in the field, silvicultural wastes for forest management purposes, land-clearing debris, debris from emergency clean-up operations, and ordnance. Open burning of land-clearing debris must not use starter or auxiliary fuels which cause excessive smoke (rubber tires, plastics, etc.); must not be performed if prohibited by local ordinances; must not cause a traffic hazard; must not take place where there is a High Fire Danger Alert declared by the Mississippi Forestry Commission or Emergency Air Pollution Episode Alert imposed by the Executive Director and must meet the following buffer zones.

- (a) Open burning without a forced-draft air system must not occur within 500 yards of an occupied dwelling.

- (b) Open burning utilizing a forced-draft air system on all fires to improve the combustion rate and reduce smoke may be done within 500 yards of but not within 50 yards of an occupied dwelling.
- (c) Burning must not occur within 500 yards of commercial airport property, private airfields, or marked off-runway aircraft approach corridors unless written approval to conduct burning is secured from the proper airport authority, owner or operator.

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

1.24 Except as otherwise specified herein, the permittee shall be subject to the following provision with respect to emergencies:

- (a) Except as otherwise specified herein, an “emergency” means any situation arising from sudden and reasonably unforeseeable events beyond the control of the source, including acts of God, which situation requires immediate corrective action to restore normal operation, and that causes the source to exceed a technology-based emission limitation under the permit, due to unavoidable increases in emissions attributable to the emergency. An emergency shall not include noncompliance to the extent caused by improperly designed equipment, lack of preventative maintenance, careless or improper operation, or operator error.
- (b) An emergency constitutes an affirmative defense to an action brought for noncompliance with such technology-based emission limitations if the conditions specified in (c) following are met.
- (c) The affirmative defense of emergency shall be demonstrated through properly signed contemporaneous operating logs, or other relevant evidence that include information as follows:
  - (1) an emergency occurred and that the permittee can identify the cause(s) of the emergency;
  - (2) the permitted facility was at the time being properly operated;
  - (3) during the period of the emergency the permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards, or other requirements in the permit; and
  - (4) the permittee submitted notice of the emergency to the DEQ within 2 working days of the time when emission limitations were exceeded due to the emergency. This notice must contain a description of the emergency, any steps taken to mitigate emissions, and corrective actions taken.

- (d) In any enforcement proceeding, the permittee seeking to establish the occurrence of an emergency has the burden of proof.
- (e) This provision is in addition to any emergency or upset provision contained in any applicable requirement specified elsewhere herein.

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

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

- (a) Upsets (as defined in 11 Miss. Admin. Code Pt. 2, R. 1.2.)
  - (1) For an upset, the Commission may pursue an enforcement action for noncompliance with an emission standard or other requirement of an applicable rule, regulation, or permit. In determining whether to pursue enforcement action, and/or the appropriate enforcement action to take, the Commission may consider whether the source has demonstrated through properly signed contemporaneous operating logs or other relevant evidence the following:
    - (i) An upset occurred and that the source can identify the cause(s) of the upset;
    - (ii) The source was at the time being properly operated;
    - (iii) During the upset the source took all reasonable steps to minimize levels of emissions that exceeded the emission standard or other requirement of an applicable rule, regulation, or permit;
    - (iv) That within 5 working days of the time the upset began, the source submitted a written report to the Department describing the upset, the steps taken to mitigate excess emissions or any other noncompliance, and the corrective actions taken and;
    - (v) That as soon as practicable but no later than 24 hours of becoming aware of an upset that caused an immediate adverse impact to human health or the environment beyond the source boundary or caused a general nuisance to the public, the source provided notification to the Department.
  - (2) In any enforcement proceeding by the Commission, the source seeking to establish the occurrence of an upset has the burden of proof.
  - (3) This provision is in addition to any upset provision contained in any applicable requirement.

- (4) These upset provisions apply only to enforcement actions by the Commission and are not intended to prohibit EPA or third party enforcement actions.
- (b) Startups and Shutdowns (as defined in 11 Miss. Admin. Code Pt. 2, R. 1.2.)
- (1) Startups and shutdowns are part of normal source operation. Emission limitations apply during startups and shutdowns unless source specific emission limitations or work practice standards for startups and shutdowns are defined by an applicable rule, regulation, or permit.
  - (2) Where the source is unable to comply with existing emission limitations established under the State Implementation Plan (SIP) and defined in this regulation, 11 Mississippi Administrative Code, Part 2, Chapter 1, the Department will consider establishing source specific emission limitations or work practice standards for startups and shutdowns. Source specific emission limitations or work practice standards established for startups and shutdowns are subject to the requirements prescribed in 11 Miss. Admin. Code Pt. 2, R. 1.10.B(2)(a) through (e).
  - (3) Where an upset as defined in Rule 1.2 occurs during startup or shutdown, see the upset requirements above.

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

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

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

**SECTION 2. EMISSION POINTS & POLLUTION CONTROL DEVICES**

<b>Emission Point</b>	<b>Description</b>
AA-001	185,000 kW natural gas-fired combustion turbine (CT) equipped with a heat recovery steam generator (HRSG) with supplemental heat input from a 268.0 MMBtu/hr natural gas-fired duct burner. The unit is equipped with a Selective Catalytic Reduction (SCR) system.
AA-002	185,000 kW natural gas-fired CT equipped with a HRSG with supplemental heat input from a 268.0 MMBtu/hr natural gas-fired duct burner. The unit is equipped with a SCR system.
AA-003	185,000 kW natural gas-fired CT equipped with a HRSG with supplemental heat input from a 268.0 MMBtu/hr natural gas-fired duct burner. The unit is equipped with a SCR system.
AA-012	275 HP (187 kW / 2.02 MMBtu/hr) diesel-fired Fire Protection Pump (Model Year 2006)
AA-013	1,850 HP (1,250 kW / 11.82 MMBtu/hr) diesel-fired Emergency Generator for cooling tower water supply pumps. (Model Year Pre-2006)
AA-014	545 HP (400 kW / 9.45 MMBtu/hr) diesel-fired Caterpillar Emergency Generator (Model Year 2018)

### SECTION 3. EMISSION LIMITATIONS & STANDARDS

#### A. Facility-Wide Emission Limitations & Standards

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

(a) Startup operations may produce emissions which exceed 40% opacity for up to fifteen (15) minutes per startup in any one hour and not to exceed three (3) startups per stack in any twenty-four (24) hour period.

(b) Emissions resulting from soot blowing operations shall be permitted provided such emissions do not exceed 60 percent opacity, and provided further that the aggregate duration of such emissions during any twenty-four (24) hour period does not exceed ten (10) minutes per billion BTU gross heating value of fuel in any one hour.

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

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

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

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

(a) The permittee shall not cause or permit the handling, transporting, or storage of any material in a manner which allows or may allow unnecessary amounts of particulate matter to become airborne.

(b) When dust, fumes, gases, mist, odorous matter, vapors, or any combination thereof escape from a building or equipment in such a manner and amount as to cause a nuisance to property other than that from which it originated or to violate any other provision of 11 Miss. Admin. Code Pt. 2, Ch. 1, the Commission may order such corrected in a way that all air and gases or air and gasborne material leaving the building or equipment are controlled or removed prior to discharge to the open air.

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

**B. Emission Point Specific Emission Limitations & Standards**

Emission Point(s)	Applicable Requirement	Condition Number(s)	Pollutant/Parameter	Limit/Standard
AA-001 AA-002 AA-003	11 Miss. Admin. Code Pt. 2, Ch. 5., as established in the PSD Permit to Construct issued November 25, 1997, and modified July 14, 1998, and June 25, 2012	3.B.1	NO <sub>x</sub>	≤ 9.0 ppmvd @ 15% oxygen on a dry basis, not to exceed 77.0 lbs/hr (3-hour average) and 337.3 tons/year (12-month rolling total)
			CO	≤ 30.3 ppmvd @ 75% or greater load, 200 ppmvd @ less than 75% load, not to exceed 108 lbs/hr (3-hour average) at max load and 3,264.0 tons/year (12-month rolling total)
			VOC	≤ 9.3 ppmvd @ 75% or greater load, 20 ppmvd @ less than 75% load, not to exceed 18.3 lbs/hr (3-hour average) at max load and 80.0 tons/year (12-month rolling total)
			Opacity	≤ 20 % (6-minute average), except for one 6-minute period per hour of not more than 27%
			Operating Restrictions	Definition of operating loads, startup, and shutdown
		3.B.2	Operating Restrictions	Minimize emissions during startups and shutdowns
	11 Miss. Admin. Code Pt. 2, Ch. 5., as established in the PSD Permit to Construct issued November 25, 1997, and modified July 14, 1998, and June 25, 2012  40 CFR 60.41Da, Subpart Da 40 CFR 60.331, Subpart GG	3.B.3	Fuel Restriction	Natural gas only  (≤ 20 grains sulfur per 100 scf)
	40 CFR 60, Subpart Da Standards of Performance for Electric Utility Steam Generating Units 40 CFR 60.40Da(e)(1) and (2) and 60.48Da(a), Subpart Da	3.B.4	PM (filterable) SO <sub>2</sub> NO <sub>x</sub> Opacity	Applicability
	40 CFR 60.42Da(a), (b)(2), and (f)(1), Subpart Da	3.B.5	PM (filterable) Opacity	Exemptions
	40 CFR 60.43Da(b)(2), Subpart Da	3.B.6	SO <sub>2</sub>	≤ 0.20 lbs/MMBtu
	40 CFR 60.44Da(d)(1), Subpart Da	3.B.7	NO <sub>x</sub>	≤ 1.6 lbs/MWh (determined on a 30-boiler operating day rolling average)

Emission Point(s)	Applicable Requirement	Condition Number(s)	Pollutant/Parameter	Limit/Standard
AA-001 AA-002 AA-003	40 CFR 60, Subpart GG  Standards of Performance for Stationary Gas Turbines  40 CFR 60.330, Subpart GG	3.B.8	NO <sub>x</sub> SO <sub>2</sub>	Applicability
	40 CFR 60.332(a)(1) and (b), Subpart GG	3.B.9	NO <sub>x</sub>	STD = 0.0075*(14.4/Y) + F
	40 CFR 60.333(b), Subpart GG	3.B.10	SO <sub>2</sub>	Sulfur content in fuel ≤ 0.8 % by weight (8,000 ppmw)
	11 Miss. Admin. Code Pt. 2, R. 1.3.D(1)(b).	3.B.11	PM (filterable)	$E = 0.8808 * I^{-0.1667}$
	40 CFR 72-78 Acid Rain Program 40 CFR 72.6, Subpart A	3.B.12	NO <sub>x</sub> SO <sub>2</sub>	Applicability
	40 CFR 97, Subpart EEEEE Cross State Air Pollution Rule (CSAPR) NO <sub>x</sub> Ozone Season Group 2 Trading Program 40 CFR 97.804, Subpart EEEEE	3.B.13	NO <sub>x</sub>	Applicability
AA-012 AA-014	11 Miss. Admin. Code Pt. 2, R. 1.3.(D)(1)(a).	3.B.14	PM (filterable)	0.6 lbs/MMBtu
AA-013	11 Miss. Admin. Code Pt. 2, R. 1.3.(D)(1)(b).	3.B.11	PM (filterable)	$E = 0.8808 * I^{-0.1667}$
AA-012 AA-013 AA-014	40 CFR 63, Subpart ZZZZ NESHAP for Stationary Reciprocating Internal Combustion Engines 40 CFR 63.6580, 63.6585(a) and (c), 63.6590(a)(1)(iii), (a)(2)(iii), and (c)(1), and 63.6605, Subpart ZZZZ	3.B.15	HAP	Applicability
AA-012 AA-013	40 CFR 63.6640(f)(1), (2), and (4), Subpart ZZZZ	3.B.16	HAP	Operating requirements
AA-014	40 CFR 60, Subpart IIII  Standards of Performance for Stationary Compression Ignition Internal Combustion Engines  40 CFR 60.4200(a)(2)(i), Subpart IIII	3.B.17	NMHC + NO <sub>x</sub> PM (filterable) CO SO <sub>2</sub>	Applicability



Emission Point(s)	Applicable Requirement	Condition Number(s)	Pollutant/Parameter	Limit/Standard
AA-014	40 CFR 60.4205(b), 60.4202(a)(2), and 60.4206, Subpart III and 40 CFR 1039, Appendix I	3.B.18	NMHC + NO <sub>x</sub> CO PM (filterable)	≤ 4.0 g/kW-hr ≤ 3.5 g/kW-hr ≤ 0.20 g/kW-hr
	40 CFR 60.4205(b), 60.4202(a)(2), Subpart III and 40 CFR 1039.105(b), Subpart B	3.B.19	Opacity	≤ 20 % during acceleration mode ≤ 15 % during lugging mode ≤ 50% during the peaks in either mode
	40 CFR 60.4207(b), Subpart III and 40 CFR 1090.305	3.B.20	SO <sub>2</sub> (Diesel fuel requirements)	Sulfur content of 15 ppm max <b>AND</b> Minimum cetane index of 40 <b>OR</b> maximum aromatic content of 35 volume percent
	40 CFR 60.4211(a)(1)-(3) and (c), Subpart III	3.B.21	NMHC + NO <sub>x</sub> PM (filterable)	Certified engine requirements
	40 CFR 60.4211(f)(1)-(3), Subpart III	3.B.22	CO SO <sub>2</sub>	Operating requirements

3.B.1 For Emission Points AA-001, AA-002, and AA-003, the permittee shall comply with the following emission limits for each combustion turbine:

- (a) Nitrogen Oxides (NO<sub>x</sub>) – ≤ 9.0 ppm<sub>dv</sub> at 15% Oxygen (O<sub>2</sub>) on a dry basis, not to exceed 77.0 lbs/hr (3-hour average) and 337.3 tons/year (12-month rolling total), as determined by EPA Reference Method 20 in 40 CFR 60, Appendix A.
- (b) Carbon Monoxide (CO) – ≤ 30.3 ppm<sub>dv</sub> at 75% or greater load, 200 ppm<sub>dv</sub> at less than 75% load, not to exceed 108.0 lbs/hr (3-hour average) at maximum load and 3,264.0 tons/year (12-month rolling total), as determined by EPA Reference Method 10 in 40 CFR 60, Appendix A.
- (c) Volatile Organic Compounds (VOC) - ≤ 9.3 ppm<sub>dv</sub> at 75% or greater load, 20 ppm<sub>dv</sub> at less than 75% load, not to exceed 18.3 lbs/hr (3-hour average) at maximum load and 80.0 tons/year (12-month rolling total), as determined by EPA Reference Method 18 in 40 CFR 60, Appendix A.
- (d) Opacity - ≤ 20% (6-minute average) except for one 6-minute period per hour of not more than 27%, as determined by EPA Reference Method 9 in 40 CFR 60, Appendix A.

The permittee shall comply with the short-term emission limits above at all times, except during startups and shutdowns. Emissions during startups and shutdowns shall be included when determining compliance with the ton/year limits. The combustion turbines shall not be operated below 50% load (determined by the manufacturer) except during upsets,

startups, and shutdowns. The maximum load is defined as any operation of the combustion turbines in excess of 75%.

Startup is defined as the period of time when the combustion unit initiates firing until the unit reaches 60% load, as defined by the manufacturer, not to exceed 210 minutes in duration. Shutdown is defined as the period of operation from 50% load, as defined by the manufacturer, to the cessation of the combustion turbine firing, not to exceed 70 minutes in duration per event.

(Ref.: 11 Miss. Admin. Code Pt. 2, Ch. 5., as established in the PSD Permit to Construct issued November 25, 1997, and modified July 14, 1998, and June 25, 2012)

3.B.2 The permittee shall operate Emission Points AA-001, AA-002, and AA-003 in a manner consistent with good air pollution control practices to minimize emissions during startups and shutdowns including:

- (a) Operation in accordance with the manufacturer's written instructions or other written instructions developed and maintained by the permittee, which shall include at a minimum the following measures:
  - (1) Review of operating parameters of the unit during startups or shutdowns as necessary to make adjustments to reduce or eliminate excess emissions;
  - (2) Operation of the SCR system as soon as and as long as the unit operating conditions are amenable to its effective use.
- (b) Maintenance of the SCR systems in accordance with written procedures developed and maintained by the permittee. The procedures shall be reviewed at least annually.

(Ref.: 11 Miss. Admin. Code Pt. 2, Ch. 5., as established in the PSD Permit to Construct issued November 25, 1997, and modified July 14, 1998, and June 25, 2012)

3.B.3 For Emission Points AA-001, AA-002, and AA-003, the permittee shall only burn natural gas. As defined in both Subpart Da and Subpart GG of 40 CFR 60, natural gas contains 20.0 grains or less of total sulfur per 100 standard cubic feet (scf).

(Ref.: 11 Miss. Admin. Code Pt. 2, Ch. 5., as established in the PSD Permit to Construct issued November 25, 1997, and modified July 14, 1998, and June 25, 2012; 40 CFR 60.41Da, Subpart Da; and 40 CFR 60.331, Subpart GG)

3.B.4 The duct burners associated with Emission Points AA-001, AA-002, and AA-003 are subject to and shall comply with all applicable requirements of the Standards of Performance for Electric Steam Generating Units, 40 CFR 60, Subpart Da. The applicable emission limits apply at all times except during periods of startup, shutdown, or malfunction.

(Ref.: 40 CFR 60.40Da(e)(1) and (2) and 60.48Da(a), Subpart Da)

3.B.5 The duct burners associated with Emission Points AA-001, AA-002, and AA-003 are exempt from having to meet the PM and Opacity limits since they are fired with natural gas per 40 CFR 60.42Da(b)(2) and (f)(1).

(Ref.: 40 CFR 60.42Da(a), (b)(2), and (f)(1), Subpart Da)

3.B.6 The permittee shall not allow the duct burners associated with Emission Points AA-001, AA-002, and AA-003 to emit any gases that contain sulfur dioxide (SO<sub>2</sub>) in excess of 0.20 lbs/MMBtu heat input.

(Ref.: 40 CFR 60.43Da(b)(2), Subpart Da)

3.B.7 The permittee shall not allow the duct burners associated with Emission Points AA-001, AA-002, and AA-003 to emit any gases that contain NO<sub>x</sub> in excess of 1.6 lbs/MWh as determined on a 30-boiler operating day rolling average basis.

(Ref.: 40 CFR 60.44Da(d)(1), Subpart Da)

3.B.8 Emission Points AA-001, AA-002, and AA-003 are subject to and shall comply with all applicable requirements of the Standards of Performance for Stationary Gas Turbines, 40 CFR 60, Subpart GG.

(Ref.: 40 CFR 60.330, Subpart GG)

3.B.9 For Emission Points AA-001, AA-002, and AA-003, the permittee shall meet the NO<sub>x</sub> emission limit established using the following equation:

$$STD = 0.0075*(14.4/Y) + F$$

where STD is the allowable NO<sub>x</sub> emission concentration (percent by volume on a dry basis at 15 percent oxygen), Y is the manufacturer's rated heat rate at manufacturer's rated peak load (kilojoules per watt hour), or actual measured heat rate based on lower heating value of fuel as measured at actual peak load for the facility (value of Y shall not exceed 14.4 kilojoules per watt hour), and F is the NO<sub>x</sub> emission allowance for fuel-bound nitrogen as defined in 40 CFR 60.332(a)(4).

(Ref.: 40 CFR 60.332(a)(1) and (b), Subpart GG)

3.B.10 For Emission Points AA-001, AA-002, and AA-003, the permittee shall not burn any fuel which contains total sulfur in excess of 0.8 percent by weight (8,000 ppmw).

(Ref.: 40 CFR 60.333(b), Subpart GG)

3.B.11 For Emission Points AA-001, AA-002, AA-003, and AA-013, the permittee shall not have particulate emissions from fossil fuel burning installations of greater than 10 million BTU

per hour heat input that exceeds the 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.12 Emission Points AA-001, AA-002, and AA-003 are subject to and shall comply with all applicable requirements of the Acid Rain Program Regulations as specified in 40 CFR 72-78. The permittee shall comply with the applicable requirements of said standards as included in Section 8.0 of this permit and as specified in the Acid Rain Permit contained in Appendix C.

(Ref.: 40 CFR 72.6, Subpart A)

- 3.B.13 Emission Points AA-001, AA-002, and AA-003 are subject to the applicable requirements of the Cross State Air Pollution Rule (CSAPR) NO<sub>x</sub> Ozone Season Group 2 Trading Program, 40 CFR 97, Subpart EEEEE and shall comply with the applicable provisions in Section 9.0 of this permit.

(Ref.: 40 CFR 97.804, Subpart EEEEE)

- 3.B.14 For Emission Points AA-012 and AA-014, the maximum permissible emission of ash and/or particulate matter from fossil fuel burning installations of less than 10 million BTU per hour heat input shall not exceed 0.6 pounds per million BTU per hour heat input.

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

- 3.B.15 Emission Points AA-012, AA-013, and AA-014 are subject to and shall comply with all applicable requirements of the NESHAP for Stationary Reciprocating Internal Combustion Engines (RICE), 40 CFR 63, Subpart ZZZZ, and the General Provisions, 40 CFR 63, Subpart A, as identified in Table 8 of Subpart ZZZZ.

For purposes of this subpart, Emission Points AA-012 and AA-013 are considered existing, emergency, compression ignition (CI) stationary RICE at an area source of HAP emissions and shall comply with all applicable requirements of Subpart ZZZZ.

Emission Point AA-014 is considered a new, emergency, CI stationary RICE at an area source of HAP emissions. As such, the permittee shall comply with Subpart ZZZZ by complying with the applicable requirements of the Standards of Performance for Stationary Compression Ignition Internal Combustion Engines, 40 CFR 60, Subpart IIII.

The permittee shall comply with the emission limits, operating limits, and all other applicable requirements at all times. The affected sources, and any associated air pollution

control equipment and monitoring equipment, shall be operated 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 this standard 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 63.6580, 63.6585(a) and (c), 63.6590(a)(1)(iii), (a)(2)(iii), and (c)(1), and 63.6605, Subpart ZZZZ)

3.B.16 Emission Points AA-012 and AA-013 shall be considered emergency stationary RICE under Subpart ZZZZ provided the engines only operate in an emergency, during maintenance and testing, and during non-emergency situations for 50 hours per year as described in (c) below. If the permittee does not operate an 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 limit on the use of an engine during an emergency situation.
- (b) The permittee may operate an 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 engines. 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 permittee maintains records indicating the federal, state, or local standards require maintenance testing of the engine beyond 100 hours per calendar year.
- (c) Emergency engines may be operated for up to 50 hours per calendar year in non-emergency situations. The 50 hours of operation in non-emergency situations are counted as part of the 100 hours per calendar year for maintenance and testing provided in paragraph (b). Except as provided in 40 CFR 60.4211(f)(4)(ii), 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 an electric grid or otherwise supply power to an electric grid or otherwise supply power as part of a financial arrangement with another entity.

(Ref.: 40 CFR 63.6640(f)(1), (2), and (4), Subpart ZZZZ)

3.B.17 Emission Point AA-014 is subject to and shall comply with the applicable requirements of the Standards of Performance for Stationary Compression Ignition Internal Combustion Engines, 40 CFR 60, Subpart IIII, and the General Provisions, 40 CFR 60, Subpart A, as specified in Table 8 of Subpart IIII.

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

3.B.18 For Emission Point AA-014, the permittee shall operate and maintain the engine such that it achieves the emission standards listed below for the life of the engine:

- (a)  $\text{NO}_x + \text{NMHC} \leq 4.0 \text{ g/KW-hr}$
- (b)  $\text{CO} \leq 3.5 \text{ g/KW-hr}$
- (c)  $\text{PM (filterable)} \leq 0.20 \text{ g/KW-hr}$

(Ref.: 40 CFR 60.4205(b), 60.4202(a)(2), and 60.4206, Subpart III and 40 CFR 1039, Appendix I)

3.B.19 For Emission Point AA-014, the permittee shall limit opacity in accordance with the following:

- (a)  $\leq 20$  percent during the acceleration mode;
- (b)  $\leq 15$  percent during lugging mode; and
- (c)  $\leq 50$  percent during the peaks in either the acceleration or lugging modes.

(Ref.: 40 CFR 60.4205(b), 60.4202(a)(2), Subpart III and 40 CFR 1039.105(b), Subpart B)

3.B.20 For Emission Point AA-014, the permittee shall use diesel fuel that has a maximum sulfur content of 15 parts per million (ppm) **AND** either a minimum cetane index of 40 **OR** a maximum aromatic content of 35 volume percent.

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

3.B.21 For Emission Point AA-014, the permittee shall comply with the applicable emission standards by purchasing, installing, operating, and maintaining an engine certified to meet the applicable emission standards. The permittee shall operate and maintain the engine in accordance with the manufacturer's emission-related written instructions and shall only change the emissions-related settings that are permitted by the manufacturer.

(Ref.: 40 CFR 60.4211(a)(1)-(3) and (c), Subpart III)

3.B.22 Emission Point AA-014 shall be considered an emergency stationary RICE under Subpart III provided the engine only operates in an emergency, during maintenance and testing, and during non-emergency situations for 50 hours per year as described in (c) below. If the permittee does not operate the engine in accordance with the requirements in (a)-(c) below, the engine will not be considered an emergency engine under Subpart III and it must then meet all applicable requirements for non-emergency engines.

- (a) There is no limit on the use of the engine during an emergency situation.

- (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 engines. 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 permittee maintains records indicating the federal, state, or local standards require maintenance testing of the engine beyond 100 hours per calendar year.
- (c) The emergency 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 provided in paragraph (b). Except as provided in 40 CFR 60.4211(f)(3)(i), 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 an electric grid or otherwise supply power to an electric grid or otherwise supply power as part of a financial arrangement with another entity.

(Ref.: 40 CFR 60.4211(f)(1)-(3), Subpart IIII)

C. Insignificant and Trivial Activity Emission Limitations & Standards

There are no other requirements applicable to the insignificant activities listed in the source's Title V permit application.

D. Work Practice Standards

Emission Point(s)	Applicable Requirement	Condition Number(s)	Pollutant/Parameter	Limit/Standard
AA-012 AA-013	40 CFR 63.6603(a), 63.6625(i), and Table 2d, Subpart ZZZZ	3.D.1	HAP	Maintenance requirements
	40 CFR 63.6625(e)(3) and (h), 63.6640(a), and Table 6, Subpart ZZZZ	3.D.2		Operating requirements

3.D.1 For Emission Points AA-012 and AA-013, the permittee shall comply with the following requirements:

- (a) Change oil and filter every 500 hours of operation or within one year plus 30 days of the previous change, whichever comes first, or perform an oil analysis at the same frequency in order to extend the oil change requirement in accordance with 40 CFR 63.6625(i).

- (b) Inspect the air cleaner every 1,000 hours of operation or within one year plus 30 days of the previous inspection, whichever comes first, and replace as necessary.
- (c) Inspect all hoses and belts every 500 hours of operation or within one year plus 30 days of the previous inspection, whichever comes first, and replace as necessary.

(Ref.: 40 CFR 63.6603(a), 63.6625(i), and Table 2d, Subpart ZZZZ)

- 3.D.2 For Emission Points AA-012 and AA-013, the permittee shall operate and maintain the engine according to the manufacturer's emission-related written instructions or develop your own maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practices for minimizing emissions. The permittee shall minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes.

(Ref.: 40 CFR 63.6625(e)(3) and (h), 63.6640(a), and Table 6, Subpart ZZZZ)



## SECTION 4. COMPLIANCE SCHEDULE

- 4.1 Unless otherwise specified herein, the permittee shall be in compliance with all requirements contained herein upon issuance of this permit.
- 4.2 Except as otherwise specified herein, the permittee shall submit to the Permit Board and to the Administrator of EPA Region IV a certification of compliance with permit terms and conditions, including emission limitations, standards, or work practices, by January 31 for the preceding calendar year. If the permit was reissued or modified during the course of the preceding calendar year, the compliance certification shall address each version of the permit. Each compliance certification shall include the following:
- (a) the identification of each term or condition of the permit that is the basis of the certification;
  - (b) the compliance status;
  - (c) whether compliance was continuous or intermittent;
  - (d) the method(s) used for determining the compliance status of the source, currently and over the applicable reporting period;
  - (e) such other facts as may be specified as pertinent in specific conditions elsewhere in this permit.

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

## SECTION 5. MONITORING, RECORDKEEPING & REPORTING REQUIREMENTS

### A. General Monitoring, Recordkeeping and Reporting Requirements

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

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

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

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

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

5.A.3 Except where a longer duration is specified in an applicable requirement, the permittee shall retain records of all required monitoring data and support information for a period of at least five (5) years from the date of the monitoring sample, measurement, report, or application. Support information includes all calibration and maintenance records, all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by the permit.

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

5.A.4 Except as otherwise specified herein, the permittee shall submit reports of any required monitoring by July 31 and January 31 for the preceding six-month period. All instances of deviations from permit requirements must be clearly identified in such reports and all required reports must be certified by a responsible official consistent with 11 Miss. Admin. Code Pt. 2, R. 6.2.E. For applicable periodic reporting requirements in 40 CFR Parts 60, 61, and 63, the permittee shall comply with the deadlines in this condition for reporting conducted on a semiannual basis. Additionally, any required quarterly reports shall be submitted by the end of the month following each calendar quarter (i.e., April 30th, July 31st, October 31st, and January 31st), and any required annual reports shall be submitted by January 31st following each calendar year.

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

- 5.A.5 Except as otherwise specified herein, the permittee shall report all deviations from permit requirements, including those attributable to upsets, the probable cause of such deviations, and any corrective actions or preventive measures taken. Said report shall be made within five (5) working days of the time the deviation began.

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

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

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

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

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

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

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

**B. Specific Monitoring and Recordkeeping Requirements**

Emission Point(s)	Applicable Requirement	Condition Number	Pollutant/Parameter Monitored	Monitoring/Recordkeeping Requirement
AA-001 AA-002 AA-003	11 Miss. Admin. Code Pt. 2, Ch. 5., as established in the PSD Permit to Construct issued November 25, 1997, and modified July 14, 1998, and June 25, 2012  11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)(a)(2). and Title V Operating Permit issued July 9, 2012	5.B.1	NO <sub>x</sub> CO	Continuous Emission Monitoring System (CEMS)
		5.B.2	VOC	Performance testing
		5.B.3	Operating restrictions	Monitor hours of operation
	40 CFR 60.48Da(i) and (k), 60.49Da (c)(2), (e), (s), and (w), and 50.50Da(d), Subpart Da	5.B.4	NO <sub>x</sub>	CEMS
	40 CFR 60.334(c), Subpart GG	5.B.5	NO <sub>x</sub>	CEMS
	40 CFR 60.334(h)(3)(i), Subpart GG and 11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)(a)(2).	5.B.6	SO <sub>2</sub>	Monitor and maintain fuel usage records
AA-012 AA-013	40 CFR 63.6625(f) and 63.6655(f)(2), Subpart ZZZZ	5.B.7	HAP	Install non-resettable hour meter and record hours of operation
	40 CFR 63.6655(a)(1), (2), and (5) and (e)(2) and 63.6660, Subpart ZZZZ	5.B.8		General recordkeeping requirements
AA-014	40 CFR 60.4209(a) and 60.4214(b), Subpart IIII	5.B.9	NMHC + NO <sub>x</sub> PM (filterable) CO SO <sub>2</sub>	Install non-resettable hour meter and record hours of operation

5.B.1 For Emission Points AA-001, AA-002, and AA-003, the permittee shall demonstrate compliance with the NO<sub>x</sub> and CO emission limitations using a Continuous Emission Monitoring System (CEMS). Demonstrating compliance with the ppm, lbs/hr, and tons per year limits using CEMS data in lieu of EPA Reference Methods is an acceptable practice provided the permittee meets the guidelines established in EPA’s general guidance on “Alternative Testing and Monitoring Procedures for Combustion Turbines Regulated Under New Source Performance Standards”. This includes the use of reference method test data collected during Relative Accuracy Test Audits (RATA) required per 40 CFR 75.

(Ref.: 11 Miss. Admin. Code Pt. 2, Ch. 5., as established in the PSD Permit to Construct issued November 25, 1997, and modified July 14, 1998, and June 25, 2012, 11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)(a)(2)., and Title V Operating Permit issued July 9, 2012)

- 5.B.2 For Emission Points AA-001, AA-002, and AA-003, the permittee shall demonstrate compliance with the VOC emission limits by performance testing using EPA Methods 18 and 25 or an EPA-approved equivalent once every five (5) years not to exceed 61 months from the previous test. All performance tests shall be performed under normal operating conditions and while operating at or near capacity, which is defined as within 5% of the maximum rated capacity (i.e., 100% load).

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

- 5.B.3 For Emission Points AA-001, AA-002, and AA-003, the permittee shall record the hours of operation on a daily basis. These records shall include a record of all startups or shutdowns of the combustion turbines, duct burners, and SCR systems. The records maintained for each startup and shutdown shall contain the date, start time, end time, duration, and confirmation that good air pollution control practices were followed during the event. These records shall be maintained onsite for a period of five (5) years and shall be made available to MDEQ personnel upon request.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)(a)(2)., and Title V Operating Permit issued July 9, 2012)

- 5.B.4 For the duct burners associated with Emission Points AA-001 through AA-003, the permittee shall demonstrate compliance with the NO<sub>x</sub> limit from Subpart Da using the CEMS installed to comply with the 40 CFR 75 monitoring requirements. The Data collected by the monitor shall be capable of demonstrating compliance with the Subpart Da limit and shall comply with the unit-specific monitoring plan.

The CEMS shall be operated and data shall be recorded during all periods of operation of the affected facility including periods of startup, shutdown, and malfunction, except for CEMS breakdowns, repairs, calibration checks, and zero span adjustments.

(Ref.: 40 CFR 60.48Da(i) and (k), 60.49Da (c)(2), (e), (s), and (w), and 50.50Da(d), Subpart Da)

- 5.B.5 For Emission Points AA-001, AA-002, and AA-003, the permittee shall use the CEMS installed to meet the 40 CFR 75 NO<sub>x</sub> monitoring requirements to demonstrate compliance with the Subpart GG emission limits except that the missing data periods shall be reported as monitor downtime in the excess emissions and monitoring performance report.

(Ref.: 40 CFR 60.334(c), Subpart GG)

- 5.B.6 For Emission Points AA-001, AA-002, and AA-003, the permittee shall keep records (purchase records/tariff sheets) that demonstrate the sulfur content of the fuel does not exceed the sulfur limits contained in Conditions 3.B.3 and 3.B.10.

(Ref.: 40 CFR 60.334(h)(3)(i), Subpart GG and 11 Miss. Admin. Code Pt. 2, R.

6.3.A(3)(a)(2).)

- 5.B.7 For Emission Points AA-012 and AA-013, the permittee shall install a non-resettable hour meter on each engine (if not already installed). The permittee shall keep records of the hours of operation of each engine that are recorded through the hour meters. The permittee shall document how many hours are spent for emergency operation, including what classified the operation as an emergency, and how many hours are spent for non-emergency operation.

(Ref.: 40 CFR 63.6625(f) and 63.6655(f)(2), Subpart ZZZZ)

- 5.B.8 For Emission Points AA-012 and AA-013, the permittee shall keep the following records:
- (a) A copy of each notification and report submitted to comply with Subpart ZZZZ.
  - (b) Records of the occurrence and duration (in hours) of each malfunction of an engine or hour meter.
  - (c) Records of actions taken during periods of malfunction to minimize emissions, including corrective actions to restore a malfunctioning engine or hour meter to its normal manner of operation.
  - (d) Records of the maintenance conducted on each engine in order to demonstrate the engines were operated and maintained in accordance to the maintenance plan.

The permittee shall keep these records in a form suitable and readily available for expeditious review. Each record shall be kept for a period of five (5) years following the date of each occurrence, measurement, maintenance, corrective action, report, or record. These records may be kept in a hard copy or electronic format.

(Ref.: 40 CFR 63.6655(a)(1), (2), and (5) and (e)(2) and 63.6660, Subpart ZZZZ)

- 5.B.9 For Emission Point AA-014, the permittee shall install a non-resettable hour meter on the engine, if one is not already installed. The permittee shall keep records of the operation of the engine in emergency and non-emergency service that are recorded through the hour meter. The permittee shall record the time of operation of the engine and the reason the engine was in operation during that time.

(Ref.: 40 CFR 60.4209(a) and 60.4214(b), Subpart IIII)

C. Specific Reporting Requirements

Emission Point(s)	Applicable Requirement	Condition Number	Pollutant/Parameter Monitored	Reporting Requirement
AA-001 AA-002 AA-003	11 Miss. Admin. Code Pt. 2, R. 6.3.A(3).	5.C.1	NO <sub>x</sub> CO VOC	Semiannual emissions report
		5.C.2	Hours of operation	Semiannual report
	11 Miss. Admin. Code Pt. 2, R. 6.3.A(3).	5.C.3	VOC	Performance test notifications and test results
	40 CFR 60.51Da(a), (b), (c), (f), (h), and (j), Subpart Da	5.C.4	NO <sub>x</sub>	Semiannual report
	40 CFR 60.334(j), Subpart GG	5.C.5	NO <sub>x</sub>	Semiannual excess emissions and monitor downtime reports
	11 Miss. Admin. Code Pt. 2, R. 6.3.A(3).	5.C.6	SO <sub>2</sub>	Semiannual report
AA-012 AA-013	40 CFR 63.6640(b), 63.6650(f), and Footnote 2 to Table 2d, Subpart ZZZZ	5.C.7	HAP	Deviation reports
AA-012 AA-013 AA-014	11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)(c)(1).	5.C.8	Hours of operation	Annual report summarizing hours of operation during the calendar year

5.C.1 For Emission Points AA-001, AA-002, and AA-003, the permittee shall submit a semiannual report in accordance with Condition 5.A.4 which contains a summary of the 12-month rolling totals for emissions for each month during the reporting period. The report shall also indicate whether there were any periods where the CEMS indicated emissions were in excess of the concentration or lbs/hr (3-hour rolling average) emission limits.

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

5.C.2 For Emission Points AA-001, AA-002, and AA-003, the permittee shall submit information detailing the operating information for all combustion units and associated control equipment for each startup and shutdown. At a minimum, this information shall include the number of startups and shutdowns, duration of each, and the time the combustion units were in operation until such time the control equipment began to operate. The information shall be submitted in accordance with Condition 5.A.4.

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

5.C.3 For Emission Points AA-001, AA-002, and AA-003, the permittee shall submit the following notifications and reports for all required performance tests:

- (a) The permittee shall submit a written test protocol at least thirty (30) days prior to the scheduled test date to ensure all test methods and procedures are acceptable to the MDEQ. After the first successful submittal of a written test protocol, the permittee may request that the submittal of a testing protocol be waived for subsequent testing by certifying in writing at least thirty (30) days prior to the subsequent testing that all conditions for testing remain unchanged such that the original protocol can and will be followed.
- (b) The permittee shall submit a notification of the intent to conduct a performance test at least ten (10) days prior to the intended test date so that an observer may be scheduled to witness the test.
- (c) The results from all performance tests shall be submitted to the MDEQ within sixty (60) days following completion of the performance test.

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

5.C.4 For the duct burners associated with Emission Points AA-001, AA-002, and AA-003, the permittee shall submit the following information for each 24-hour period in the semiannual report required by Condition 5.A.4.

- (a) Calendar date.
- (b) The average NO<sub>x</sub> emission rate (lb/MMBtu) for each 30 successive boiler operating days, ending with the last 30-day period in the quarter; reasons for non-compliance with the emission standards, and description of corrective actions taken.
- (c) Identification of the boiler operating days for which pollutant or diluent data have not been obtained by an approved method for at least 75 percent of the hours of operation of the facility; justification for not obtaining sufficient data; and description of corrective actions taken.
- (d) Identification of the times when emissions data have been excluded from the calculation of average emission rates because of startup, shutdown, or malfunction.
- (e) Identification of "F" factor used for calculations, method of determination, and type of fuel combusted.
- (f) Identification of the times when the pollutant concentration exceeded full span of the CEMS.
- (g) If the minimum quantity of emissions data required in (c) above is not obtained for any 30 successive boiler operating days, the permittee shall report the required information form 40 CFR 60.51Da(c)(1)-(5).
- (h) For any periods for which NO<sub>x</sub> emissions data are not available, the permittee shall submit a signed statement indicating if any changes were made in operation of the



emission control system during the period of unavailability. Operations of the control system and affected facility during periods of data unavailability are to be compared with operation of the control system and affected facility before and following the period of data unavailability.

- (i) The report shall contain a signed statement indicating whether:
  - (1) The required CEMS calibration, span, and drift checks or other periodic audits have or have not been performed as specified.
  - (2) The data used to show compliance was or was not obtained in accordance with approved methods and procedures of this part and is representative of plant performance.
  - (3) The minimum data requirements have or have not been met; or the minimum data requirements have not been met for errors that were avoidable.
  - (4) Compliance with the standards has or has not been achieved during the reporting period.

(Ref.: 40 CFR 60.51Da(a), (b), (c), (f), (h), and (j), Subpart Da)

- 5.C.5 For Emission Points AA-001, AA-002, and AA-003, the permittee shall submit a semiannual report in accordance with Condition 5.A.4 which contains excess emissions and monitor downtime information for each CEMS. Each report shall include all required information from 40 CFR 60.7(c) and (d) and a clearly calculated corresponding emission limitation calculated from the applicable equation found in 40 CFR 60.332(a).

(Ref.: 40 CFR 60.334(j)(1)(iii), Subpart GG and 11 Miss. Admin. Code Pt. 2, R. 6.3.A(3).)

- 5.C.6 For Emission Points AA-001, AA-002, and AA-003, the permittee shall submit a semiannual report in accordance with Condition 5.A.4 which contains information identifying any operating periods in which the sulfur content of the fuel being fired exceeded 0.8 percent by weight (8,000 ppmw). If no such exceedances existed, such should be stated in the report.

(Ref.: 40 CFR 60.334(j)(2), Subpart GG and 11 Miss. Admin. Code Pt. 2, R. 6.3.A(3).)

- 5.C.7 For Emission Points AA-012 and AA-013, the permittee shall submit a semiannual report in accordance with Condition 5.A.4 which identifies all deviations from any emission or operating limitation of Subpart ZZZZ. Such deviations shall include any failure to perform the work practice on the required schedule. In the event a work practice is delayed because an engine is operating during an emergency or if performing the work practice on the required schedule posed an unacceptable risk under federal, state, or local law, the permittee shall include the reason for the delay in the report.

(Ref.: 40 CFR 63.6640(b), 63.6650(f), and Footnote 2 to Table 2d, Subpart ZZZZ)

5.C.8 For Emission Points AA-012, AA-013, and AA-014, the permittee shall report the annual hours each engine operated in emergency use, included what constituted the emergency, and the annual hours operated in non-emergency use. The annual hours shall be submitted for each calendar year in the semiannual report due January 31<sup>st</sup> of each year.

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

**SECTION 6. ALTERNATIVE OPERATING SCENARIOS**

None permitted.

## SECTION 7. TITLE VI REQUIREMENTS

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

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

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

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

## SECTION 8. ACID RAIN REQUIREMENTS

The permittee shall comply with all requirements of the Phase II Acid Rain Permit attached as Appendix C of this permit. All conditions of the Phase II Acid Rain Permit are effective for the dates specified in the Acid Rain Permit; however, these conditions may be revised by the MDEQ during the permitted period.

**SECTION 9. CROSS-STATE AIR POLLUTION RULE**

**9.1 Description of Cross-State Air Pollution Rule (CSAPR) Monitoring Provisions**

The CSAPR subject units and the unit-specific monitoring provisions at this source are identified in the following Table. These units are subject to the requirements for the CSAPR NO<sub>x</sub> Ozone Season Group 2 Trading Program.

<b>Unit ID: Emission Points AA-001, AA-002, and AA-003</b>					
Parameter	CEMS requirements pursuant to 40 CFR part 75, subpart B (for SO <sub>2</sub> monitoring) and 40 CFR part 75, subpart H (for NO <sub>x</sub> 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
SO <sub>2</sub>		X			
NO <sub>x</sub>	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 97.830 through 97.835. The monitoring, recordkeeping and reporting requirements applicable to each unit are included below in the standard conditions for the applicable CSAPR 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.
- 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 97.835. The Administrator's response approving or disapproving any petition for an alternative monitoring system is available on the EPA's website at <https://www.epa.gov/airmarkets/part-75-petition-responses>.
- 9.5 The permittee that wants to use an alternative to any monitoring, recordkeeping, or reporting requirement under 40 CFR 97.830 through 97.834 must submit to the Administrator a petition requesting approval of the alternative in accordance with 40 CFR 75.66 and 97.835. The Administrator's response approving or disapproving any petition for an alternative to a monitoring, recordkeeping, or reporting requirement is available on EPA website at <https://www.epa.gov/airmarkets/part-75-petition-responses>.
- 9.6 The descriptions of monitoring applicable to the unit included above meet the requirement of 40 CFR 97.830 through 97.834, 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 CSAPR NO<sub>x</sub> Ozone Season Group 2 Trading Program Requirements (40 CFR 97.806)
- (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 97.813 through 97.818.
  - (b) Emissions monitoring, reporting, and recordkeeping requirements.
    - (1) The permittee, and the designated representative, of each CSAPR NO<sub>x</sub> Ozone Season Group 2 source and each CSAPR NO<sub>x</sub> Ozone Season Group 2 unit at the source shall comply with the monitoring, reporting, and recordkeeping requirements of 40 CFR 97.830 (general requirements, including installation, certification, and data accounting, compliance deadlines, reporting data, prohibitions, and long-term cold storage), 97.831 (initial monitoring system certification and recertification procedures), 97.832 (monitoring system out-of-control periods), 97.833 (notifications concerning monitoring), 97.834 (recordkeeping and reporting, including monitoring plans, certification applications, quarterly reports, and compliance certification), and 97.835



(petitions for alternatives to monitoring, recordkeeping, or reporting requirements).

- (2) The emissions data determined in accordance with 40 CFR 97.830 through 97.835 shall be used to calculate allocations of CSAPR NO<sub>x</sub> Ozone Season Group 2 allowances under 40 CFR 97.811(a)(2) and (b) and 97.812 and to determine compliance with the CSAPR NO<sub>x</sub> Ozone Season Group 2 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 97.830 through 97.835 and rounded to the nearest ton, with any fraction of a ton less than 0.50 being deemed to be zero.

(c) NO<sub>x</sub> emissions requirements.

(1) CSAPR NO<sub>x</sub> Ozone Season Group 2 emissions limitation.

- (i) As of the allowance transfer deadline for a control period in a given year, the owners and operators of each CSAPR NO<sub>x</sub> Ozone Season Group 2 source and each CSAPR NO<sub>x</sub> Ozone Season Group 2 unit at the source shall hold, in the source's compliance account, CSAPR NO<sub>x</sub> Ozone Season Group 2 allowances available for deduction for such control period under 40 CFR 97.824(a) in an amount not less than the tons of total NO<sub>x</sub> emissions for such control period from all CSAPR NO<sub>x</sub> Ozone Season Group 2 units at the source.
- (ii) If total NO<sub>x</sub> emissions during a control period in a given year from the CSAPR NO<sub>x</sub> Ozone Season Group 2 units at a CSAPR NO<sub>x</sub> Ozone Season Group 2 source are in excess of the CSAPR NO<sub>x</sub> Ozone Season Group 2 emissions limitation set forth in paragraph (c)(1)(i) above, then:
  - (A) The owners and operators of the source and each CSAPR NO<sub>x</sub> Ozone Season Group 2 unit at the source shall hold the CSAPR NO<sub>x</sub> Ozone Season Group 2 allowances required for deduction under 40 CFR 97.824(d); and
  - (B) The owners and operators of the source and each CSAPR NO<sub>x</sub> Ozone Season Group 2 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 EEEEE and the Clean Air Act.

(2) CSAPR NO<sub>x</sub> Ozone Season Group 2 assurance provisions.

- (i) If total NO<sub>x</sub> emissions during a control period in a given year from all CSAPR NO<sub>x</sub> Ozone Season Group 2 units at CSAPR NO<sub>x</sub> Ozone Season Group 2 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<sub>x</sub> 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) CSAPR NO<sub>x</sub> Ozone Season Group 2 allowances available for deduction for such control period under 40 CFR 97.825(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 97.825(b), of multiplying—
  - (A) The quotient of the amount by which the common designated representative's share of such NO<sub>x</sub> 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<sub>x</sub> emissions exceeds the respective common designated representative's assurance level; and
  - (B) The amount by which total NO<sub>x</sub> emissions from all CSAPR NO<sub>x</sub> Ozone Season Group 2 units at CSAPR NO<sub>x</sub> Ozone Season Group 2 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 CSAPR NO<sub>x</sub> Ozone Season Group 2 allowances required under paragraph (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<sub>x</sub> emissions from all CSAPR NO<sub>x</sub> Ozone Season Group 2 units at CSAPR NO<sub>x</sub> Ozone Season Group 2 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<sub>x</sub> emissions exceed the sum, for such control period, of the State NO<sub>x</sub> Ozone Season Group 2 trading budget under 40 CFR 97.810(a) and the state's variability limit under 40 CFR 97.810(b).
- (iv) It shall not be a violation of 40 CFR part 97, subpart EEEEE or of the Clean Air Act if total NO<sub>x</sub> emissions from all CSAPR NO<sub>x</sub> Ozone Season Group 2 units at CSAPR NO<sub>x</sub> Ozone Season Group 2 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<sub>x</sub> emissions from the CSAPR NO<sub>x</sub> Ozone Season Group 2 units at CSAPR NO<sub>x</sub> Ozone Season Group 2 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 CSAPR NO<sub>x</sub> Ozone Season Group 2 allowances for a control period in a given year in accordance with paragraphs (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 CSAPR NO<sub>x</sub> Ozone Season Group 2 allowance that the permittee fails to hold for such control period in accordance with paragraphs (c)(2)(i) through (iii) above and each day of such control period shall constitute a separate violation of 40 CFR part 97, subpart EEEEE and the Clean Air Act.

(3) Compliance periods.

- (i) A CSAPR NO<sub>x</sub> Ozone Season Group 2 unit shall be subject to the requirements under paragraph (c)(1) 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 97.830(b) and for each control period thereafter.
- (ii) A base CSAPR NO<sub>x</sub> Ozone Season Group 2 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 97.830(b) and for each control period thereafter.

(4) Vintage of allowances held for compliance.

- (i) A CSAPR NO<sub>x</sub> Ozone Season Group 2 allowance held for compliance with the requirements under paragraph (c)(1)(i) above for a control period in a given year must be a CSAPR NO<sub>x</sub> Ozone Season Group 2 allowance that was allocated for such control period or a control period in a prior year.
- (ii) A CSAPR NO<sub>x</sub> Ozone Season Group 2 allowance held for compliance with the requirements under paragraphs (c)(1)(ii)(A) and (2)(i) through (iii) above for a control period in a given year must be a CSAPR NO<sub>x</sub> Ozone Season Group 2 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 CSAPR NO<sub>x</sub> Ozone Season Group 2 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 EEEEE.
  - (6) Limited authorization. A CSAPR NO<sub>x</sub> Ozone Season Group 2 allowance is a limited authorization to emit one ton of NO<sub>x</sub> 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 CSAPR NO<sub>x</sub> Ozone Season Group 2 Trading Program; and
    - (ii) Notwithstanding any other provision of 40 CFR part 97, subpart EEEEE, 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 CSAPR NO<sub>x</sub> Ozone Season Group 2 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 CSAPR NO<sub>x</sub> Ozone Season Group 2 allowances in accordance with 40 CFR part 97, subpart EEEEE.
  - (2) This permit incorporates the CSAPR emissions monitoring, recordkeeping and reporting requirements pursuant to 40 CFR 97.830 through 97.835, 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 CSAPR Monitoring Provisions table for units identified in this permit may be added to, or changed, in this Title V permit using once permit modification procedures in accordance with 40 CFR 97.806(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 CSAPR NO<sub>x</sub> Ozone Season Group 2 source and each CSAPR NO<sub>x</sub> Ozone Season Group 2 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 97.816 for the designated representative for the source and each CSAPR NO<sub>x</sub> Ozone Season Group 2 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 97.816 changing the designated representative.
  - (ii) All emissions monitoring information, in accordance with 40 CFR part 97, subpart EEEEE.
  - (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 CSAPR NO<sub>x</sub> Ozone Season Group 2 Trading Program.
- (2) The designated representative of a CSAPR NO<sub>x</sub> Ozone Season Group 2 source and each CSAPR NO<sub>x</sub> Ozone Season Group 2 unit at the source shall make all submissions required under the CSAPR NO<sub>x</sub> Ozone Season Group 2 Trading Program, except as provided in 40 CFR 97.818. 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 CSAPR NO<sub>x</sub> Ozone Season Group 2 Trading Program that applies to a CSAPR NO<sub>x</sub> Ozone Season Group 2 source or the designated representative of a CSAPR NO<sub>x</sub> Ozone Season Group 2 source shall also apply to the permittee of such source and of the CSAPR NO<sub>x</sub> Ozone Season Group 2 units at the source.
  - (2) Any provision of the CSAPR NO<sub>x</sub> Ozone Season Group 2 Trading Program that applies to a CSAPR NO<sub>x</sub> Ozone Season Group 2 unit or the designated representative of a CSAPR NO<sub>x</sub> Ozone Season Group 2 unit shall also apply to the permittee of such unit.
- (g) Effect on other authorities - No provision of the CSAPR NO<sub>x</sub> Ozone Season Group 2 Trading Program or exemption under 40 CFR 97.805 shall be construed as exempting or excluding the permittee, and the designated representative, of a CSAPR NO<sub>x</sub> Ozone Season Group 2 source or CSAPR NO<sub>x</sub> Ozone Season Group 2 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

BACT	Best Available Control Technology
CEM	Continuous Emission Monitor
CEMS	Continuous Emission Monitoring System
CFR	Code of Federal Regulations
CO	Carbon Monoxide
COM	Continuous Opacity Monitor
COMS	Continuous Opacity Monitoring System
DEQ	Mississippi Department of Environmental Quality
EPA	United States Environmental Protection Agency
gr/dscf	Grains Per Dry Standard Cubic Foot
HP	Horsepower
HAP	Hazardous Air Pollutant
lb/hr	Pounds per Hour
M or K	Thousand
MACT	Maximum Achievable Control Technology
MM	Million
MMBTUH	Million British Thermal Units per Hour
NA	Not Applicable
NAAQS	National Ambient Air Quality Standards
NESHAP	National Emissions Standards for Hazardous Air Pollutants, 40 CFR 61, or National Emission Standards for Hazardous Air Pollutants for Source Categories, 40 CFR 63
NMVOC	Non-Methane Volatile Organic Compounds
NO <sub>x</sub>	Nitrogen Oxides
NSPS	New Source Performance Standards, 40 CFR 60
O&M	Operation and Maintenance
PM	Particulate Matter
PM <sub>10</sub>	Particulate Matter less than 10 µm in diameter
PM <sub>2.5</sub>	Particulate Matter less than 2.5 µm in diameter
ppm	Parts per Million
PSD	Prevention of Significant Deterioration
SIP	State Implementation Plan
SO <sub>2</sub>	Sulfur Dioxide
SSM	Startup, Shutdown, and Malfunction
TPY	Tons per Year
TRS	Total Reduced Sulfur
VEE	Visible Emissions Evaluation
VHAP	Volatile Hazardous Air Pollutant
VOHAP	Volatile Organic Hazardous Air Pollutant
VOC	Volatile Organic Compound

## **APPENDIX B**

### **List of Regulations Referenced In this Permit**

11 Miss. Admin. Code, Part 2, Ch. 1. – Air Emission Regulations for the Prevention, Abatement, and Control of Air Contaminants (Amended May 24, 2018)

11 Miss. Admin. Code, Part 2, Ch. 2. – Permit Regulations for the Construction and/or Operation of Air Emissions Equipment (Amended February 22, 2024)

11 Miss. Admin. Code, Part 2, Ch. 5. - Regulations for the Prevention of Significant Deterioration of Air Quality (Amended February 22, 2024)

11 Miss. Admin. Code, Part 2, Ch. 6. – Air Emission Operating Permit Regulations for the Purposes of Title V of the Federal Clean Air Act (Amended June 27, 2024)

40 CFR 60, Subpart Da, Standards of Performance for Electric Utility Steam Generating Units

40 CFR 60, Subpart GG, Standards of Performance for Stationary Gas Turbines

40 CFR 60, Subpart IIII, Standards of Performance for Stationary Compression Ignition Internal Combustion Engines

40 CFR 63, Subpart ZZZZ, NESHAP for Stationary Reciprocating Internal Combustion Engines

40 CFR 72-78, Acid Rain Program General Provisions

40 CFR 82, Protection of Stratospheric Ozone

40 CFR 97, Subpart EEEEE, Cross State Air Pollution Rule (CSAPR) NO<sub>x</sub> Ozone Season Group 2 Trading Program



# **APPENDIX C**

## **PHASE II ACID RAIN PERMIT**

## PHASE II ACID RAIN PERMIT

Issued to: Batesville Generation Station  
Operated by: Cooperative Energy, a Mississippi electric cooperative  
ORIS code: 55063  
Effective: December 27, 2024. to November 30, 2029

### Summary of Previous Actions:

This page will be replaced to document new actions each time a new action is taken by the MDEQ. These are the permitting actions that have been undertaken:

1) Draft permit for public and EPA comment.	November 13, 1998
2) Permit finalized and issued.	December 29, 1998
3) Draft permit for public comment (permit renewal).	October 10, 2003
4) Draft permit for EPA comment (permit renewal).	November 11, 2003
5) Permit finalized and issued.	December 30, 2003
6) Draft permit for public and EPA comment.	May 18, 2012
7) Permit finalized and issued.	July 9, 2012
8) Modified permit finalized and issued.	December 10, 2012

### Present Action:

9) Draft permit for public and EPA comment (permit renewal).	November 6, 2024
10) Permit finalized and issued	December 27, 2024



Signature

December 27, 2024

Date

Becky Simonson, P.E.  
Chief, Environmental Permits Division  
Mississippi Department of Environmental Quality  
P.O. Box 2261  
Jackson, MS 39225-2261  
Telephone: (601) 961-5171 Fax: (601) 961-5742

## **PHASE II ACID RAIN PERMIT**

Issued to: Batesville Generation Station  
Operated by: Cooperative Energy, a Mississippi electric cooperative  
ORIS code: 55063  
Effective: *December 27, 2024. to November 30, 2029*

### **ACID RAIN PERMIT CONTENTS:**

- 1) Statement of Basis.
  - 2) SO<sub>2</sub> allowances allocated under this permit and NO<sub>x</sub> requirements for each affected unit.
  - 3) Comments, notes and justifications regarding permit decisions and changes made to the permit application forms during the review process, and any additional requirements or conditions.
  - 4) The permit application submitted for this source. The owners and operators of the 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) SO<sub>2</sub> ALLOWANCE ALLOCATIONS AND NO<sub>x</sub> REQUIREMENTS FOR EACH AFFECTED UNIT:**

		2025	2026	2027	2028	2029
AA-001 AA-002 AA-003	SO <sub>2</sub> allowances, under Table 2 of 40 CFR Part 73.	NA	NA	NA	NA	NA
	NO <sub>x</sub> limit	NA				

**3) COMMENTS, NOTES AND JUSTIFICATIONS:**

All affected units are natural gas/fuel oil fired units; therefore, the affected units are not subject to the NO<sub>x</sub> requirements outlined in 40 CFR Part 76. Additionally, these are units that were not listed in 40 CFR 73, Tables 2, 3, or 4, and have not been allocated any SO<sub>2</sub> allowances.

**4) PHASE II PERMIT APPLICATION:**

Attached