STATE OF MISSISSIPPI
AIR POLLUTION CONTROL
TITLE V PERMIT

TO OPERATE AIR EMISSIONS EQUIPMENT

THIS CERTIFIES THAT

TVA Magnolia Combined Cycle
352 Highway 4 West
Ashland, Mississippi
Benton 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) (i.e., the "Federal Act") 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: October 16, 2026

Effective Date: As specified herein.

MISSISSIPPI ENVIRONMENTAL QUALITY PERMIT BOARD

Jaricus Whitlock

AUTHORIZED SIGNATURE
MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY

Expires: September 30, 2031 **Permit No.:** 0200-00019

13469 PER20240001

TABLE OF CONTENTS

SECTION 1. GENERAL CONDITIONS 3

SECTION 2. EMISSION POINTS & POLLUTION CONTROL DEVICES 14

SECTION 3. EMISSION LIMITATIONS & STANDARDS 15

SECTION 4. COMPLIANCE SCHEDULE 31

SECTION 5. MONITORING, RECORDKEEPING & REPORTING REQUIREMENTS 32

SECTION 6. ALTERNATIVE OPERATING SCENARIOS 45

SECTION 7. TITLE VI REQUIREMENTS 46

SECTION 8. ACID RAIN REQUIREMENTS 48

SECTION 9. CROSS STATE AIR POLLUTION RULE 49

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

SECTION 1. GENERAL CONDITIONS

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

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

1.2 It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

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

1.3 The permit and/or any part thereof may be modified, revoked, reopened, and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition.

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

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

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

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

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

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

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

(b) Proceedings to reopen and issue a permit shall follow the same procedures as apply to initial permit issuance and shall affect only those parts of the permit for which cause to reopen exists. Such reopening shall be made as expeditiously as practicable.

(c) Reopenings shall not be initiated before a notice of such intent is provided to the Title V source by the Department of Environmental Quality (DEQ) at least thirty (30) days in advance of the date that the permit is to be reopened, except that the Permit Board may provide a shorter time period in the case of an emergency.

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

1.5 The permittee shall furnish to the DEQ within a reasonable time any information the DEQ may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to the DEQ copies of records required to be kept by the permittee or, for information claimed to be confidential, the permittee shall furnish such records to DEQ along with a claim of confidentiality. The permittee may furnish such records directly to the Administrator along with a claim of confidentiality.

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

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

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

1.7 The provisions of this permit are severable. If any provision of this permit (or the application of any provision of this permit to any circumstances) is challenged or held invalid, the validity of the remaining permit provisions and/or portions thereof (or their application to other persons or sets of circumstances) shall not be affected thereby.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.A(5).)

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

(a) A portion of the fee shall be based on the permittee's annual quantity of emissions. The permittee shall elect for "actual emissions" or "allowable emissions" to be used in determining the annual quantity of emissions unless the Commission determines by order that the method chosen by the applicant for calculating actual emissions fails to reasonably represent actual emissions.

(i) "Actual emissions" shall be calculated using emission monitoring data or direct emissions measurements for the pollutant(s); mass balance calculations such as the amounts of the pollutant(s) entering and leaving

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

(ii) "Allowable emissions" are those emissions limited by this permit as well as those emissions not expressly limited by this permit but otherwise allowed by this permit, as represented in the Title V application.

(iii) Not withstanding paragraphs (i) and (ii), a minimum annual fee shall be assessed in accordance with the fee schedule established by the Commission when calculating this portion of the fee.

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

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

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

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

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

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

If a fee is recalculated such that the amount assessed for an annual period is reduced and the permittee has already paid all or a portion of the fee, the revised

fee assessment may not be reduced to an amount less than what the permittee has already paid regardless of the results of the recalculation.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

(a) Enter upon the permittee's premises where a Title V source is located or emissions-related activity is conducted, or where records must be kept under the conditions of this permit;

(b) Have access to and copy (at reasonable times) any records that must be kept under the conditions of this permit;

(c) Inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit; and

(d) As authorized by the Federal Act, sample or monitor (at reasonable times) substances or parameters for the purpose of assuring compliance with the permit or applicable requirements.

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

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

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

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

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

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

(a) Such applicable requirements are included and are specifically identified in the permit; or

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

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

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

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

(b) The liability of an owner or operator of a source for any violation of applicable requirements prior to or at the time of permit issuance;

(c) The applicable requirements of the acid rain program, consistent with Section 408(a) of the Federal Act.

(d) The ability of EPA to obtain information from a source pursuant to Section 114 of the Federal Act.

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

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

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

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

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

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

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

(a) The changes are not modifications under any provision of Title I of the Federal Act;

(b) The changes do not exceed the emissions allowable under this permit;

(c) The permittee provides the Administrator and the Department with written notification in advance of the proposed changes [i.e., at least seven (7) days or such other time frame as provided in other regulations for emergencies] and the notification includes the following information:

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

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

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

"Modification" is defined as any physical change in or change in the method of operation of a facility which increases the actual emissions or the potential uncontrolled emissions of any air pollutant subject to regulation under the Federal Act emitted into the atmosphere by that facility or which results in the emission of any air pollutant subject to regulation under the Federal Act into the atmosphere not previously emitted. A physical change or change in the method of operation shall not include:

(a) Routine maintenance, repair, and replacement;

(b) Use of an alternative fuel or raw material by reason of an order under Sections 2 (a) and (b) of the "Federal Energy Supply and Environmental Coordination Act of 1974" (or any superseding legislation) or by reason of a natural gas curtailment plan pursuant to the "Federal Power Act";

(c) Use of an alternative fuel by reason of an order or rule under Section 125 of the Federal Act;

(d) Use of an alternative fuel or raw material by a stationary source which:

(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 Regulation 11 Miss. Admin. Code Pt. 2, Ch. 2. and/or Ch. 5.; or

(2) The source is approved to use under any permit issued under Regulation 11 Miss. Admin. Code Pt. 2, Ch. 2. and/or Ch. 5.;

(e) An increase in the hours of operation or in the production rate unless such change would be prohibited under any federally enforceable permit condition which was established after January 6, 1975, pursuant to Regulation 11 Miss. Admin. Code Pt. 2, Ch. 2. or Ch. 5.; or

(f) Any change in ownership of the stationary source.

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

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

(a) The Permit Board shall take action within sixty (60) days after receipt of a completed request for a permit transfer, unless a public hearing is scheduled. The Permit Board may incorporate such changes without providing notice to the public or affected State(s) provided that it designates any such permit revision as having been made pursuant to this paragraph.

(b) A permit transfer shall be approved upon satisfaction of the following:

(1) The applicant for transfer approval can demonstrate to the Permit Board it has the financial resources, operational expertise, and environmental compliance history over the last five (5) years to insure compliance with the terms and conditions of the permit to be transferred, except where this conflicts with State Law, and

(2) The Permit Board determines that no other change in the permit is necessary, provided that a written agreement containing a specific date for transfer of permit responsibility, coverage, and liability between the current and new permittee has been submitted to the DEQ.

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

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

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

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

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

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

(b) Open burning utilizing a forced-draft air system on all fires to improve the combustion rate and reduce smoke may be done within 500 yards of but not within fifty (50) yards of an occupied dwelling.

(c) Burning must not occur within 500 yards of commercial airport property, private airfields, or marked off-runway aircraft approach corridors unless written approval to conduct burning is secured from the proper airport authority, owner or operator.

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

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

(a) Upsets (as defined in 11 Miss. Admin. Code Pt. 2, R. 1.2.)

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

(i) An upset occurred and that the source can identify the cause(s) of the upset;

(ii) The source was at the time being properly operated;

(iii) During the upset the source took all reasonable steps to minimize levels of emissions that exceeded the emission standard or other requirement of an applicable rule, regulation, or permit;

(iv) That within five (5) working days of the time the upset began, the source submitted a written report to the Department describing the upset, the steps taken to mitigate excess emissions or any other non-compliance, and the corrective actions taken and;

(v) That as soon as practicable but no later than twenty-four (24) hours of becoming aware of an upset that caused an immediate adverse impact to human health or the environment beyond the source boundary or caused a general nuisance to the public, the source provided notification to the Department.

(2) In any enforcement proceeding by the Commission, the source seeking to establish the occurrence of an upset has the burden of proof.

(3) This provision is in addition to any upset provision contained in any applicable requirement.

(4) These upset provisions apply only to enforcement actions by the Commission and are not intended to prohibit EPA or third-party enforcement actions.

(b) Start-ups and Shutdowns (as defined in 11 Miss. Admin. Code Pt. 2, R. 1.2.)

(1) Start-ups and shutdowns are part of normal source operation. Emission limitations apply during start-ups and shutdowns unless source specific emission limitations or work practice standards for start-ups and shutdowns are defined by an applicable rule, regulation, or permit.

(2) Where the source is unable to comply with existing emission limitations established under the State Implementation Plan (SIP) and defined in Regulation 11 Mississippi Administrative Code, Part 2, Chapter 1, the Department will consider establishing source specific emission limitations or work practice standards for start-ups and shutdowns. Source specific emission limitations or work practice standards established for start-ups and shutdowns are subject to the requirements prescribed in 11 Miss. Admin. Code Pt. 2, R. 1.10.B(2)(a) through (e).

(3) Where an upset as defined in Rule 1.2 occurs during start-up or shutdown, see the "Upset" requirements above.

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

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

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

SECTION 2. EMISSION POINTS & POLLUTION CONTROL DEVICES

Emission Point	Reference Number	Description
AA-001	MCC01	2,336 MMBtu/hr (170 MW) natural gas-fired Combined Cycle Combustion Turbine with a Heat Recovery Steam Generator (HRSG) equipped with a 610.5 MMBtu/hr duct burner. The combustion turbine is equipped with dry low-NO_x burners and a Selective Catalytic Reduction (SCR) system which uses aqueous ammonia as a reducing agent to control NO_x emissions from the exhaust of the combined cycle system. (1,726.1 MMBtu/hr for the combustion turbine and 610.5 MMBtu/hr for the duct burner)
AA-002	MCC02	2,336 MMBtu/hr (170 MW) natural gas-fired Combined Cycle Combustion Turbine with a HRSG equipped with a 610.5 MMBtu/hr duct burner. The combustion turbine is equipped with dry low-NO_x burners and a SCR system which uses aqueous ammonia as a reducing agent to control NO_x emissions from the exhaust of the combined cycle system. (1,726.1 MMBtu/hr for the combustion turbine and 610.5 MMBtu/hr for the duct burner)
AA-003	MCC03	2,336 MMBtu/hr (170 MW) natural gas-fired Combined Cycle Combustion Turbine with a HRSG equipped with a 610.5 MMBtu/hr duct burner. The combustion turbine is equipped with dry low-NO_x burners and a SCR system which uses aqueous ammonia as a reducing agent to control NO_x emissions from the exhaust of the combined cycle system. (1,726.1 MMBtu/hr for the combustion turbine and 610.5 MMBtu/hr for the duct burner)
AA-004	AB01	69.8 MMBtu/hr natural gas-fired Auxiliary Boiler
AA-009	----	1.89 MMBtu/hr (270 hp) diesel-fired Emergency Fire Pump Engine (Manufactured: 2002)
AA-010	AC01	0.84 MMBtu/hr (115 hp) diesel-fired engine for the Air Compressor (Manufactured: 2014)
AA-011	----	22.6 MMBtu/hr (3,352 hp/2,500 kW) diesel-fired Emergency Generator Engine (Manufactured 2025)

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) and (b):

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

(b) Emissions resulting from soot blowing operations shall be permitted provided such emissions do not exceed sixty (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 The permittee shall not cause, permit, or allow the emission of particles or any contaminants in sufficient amounts or of such duration from any process as to be injurious to humans, animals, plants, or property, or to be a public nuisance, or create a condition of air pollution.

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

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

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

B. EMISSION POINT SPECIFIC EMISSION LIMITATIONS & STANDARDS

Emission Point(s)	Applicable Requirement	Condition Number	Pollutant / Parameter	Limit / Standard
AA-001 AA-002 AA-003	Acid Rain Program Regulations, 40 CFR 72-78	3.B.1	NO_x SO_2 CO	General Applicability
	40 CFR 60, Subpart Da Standards of Performance for Electric Utility Steam Generating Units 40 CFR 60.40Da(a), (e)(1) and (2), Subpart Da	3.B.2	NO_x SO_2	General Applicability
	40 CFR 60.42Da(b)(2) and (f)(1), 60.43Da(b)(1) and (2), 60.44Da(d)(1), Subpart Da	3.B.3	SO_2	Emissions shall not exceed 0.80 lbs/MMBtu and 10 percent of the potential combustion concentration or 0.20 lbs/MMBtu and 100 percent of the combustion concentration
			NO_x	≤ 1.6 lbs/MWh gross energy output
			PM Opacity	Exemption
	40 CFR 60, Subpart GG Standards of Performance for Stationary Gas Turbines 40 CFR Part 60.330(a), Subpart GG	3.B.4	NO_x SO_2	General Applicability
	11 Miss. Admin. Code Pt. 2, Ch. 5, as established in the PSD Permit to Construct issued on May 31, 2001, and modified on June 13, 2005, September 7, 2011, May 24, 2012, and June 15, 2020 40 CFR 60.333(b), Subpart GG	3.B.5	Fuel Sulfur Content	≤ 0.8% by weight
	11 Miss. Admin. Code Pt. 2, Ch. 5, as established in the PSD Permit to Construct issued on May 31, 2001, and modified on June 13, 2005, September7, 2011, May 24, 2012, and June 15, 2020	3.B.6	SCR Operation	Operate the SCR system as soon as and as long as the unit operating conditions are amenable to its effective use.
		3.B.7	Fuel Requirement	Natural gas only

Emission Point(s)	Applicable Requirement	Condition Number	Pollutant / Parameter	Limit / Standard
AA-001 AA-002 AA-003 **All Methods of Operation**	11 Miss. Admin. Code Pt. 2, Ch. 5, as established in the PSD Permit to Construct issued on May 31, 2001, and modified on June 13, 2005, September 7, 2011, May 24, 2012, and June 15, 2020	3.B.8	Smoke (Opacity)	≤ 10%
		3.B.9	PM (filterable) $PM_{10}/PM_{2.5}$	≤ 351 tpy based on a 12-month rolling total
			SO_2	≤ 15.5 tpy based on a 12-month rolling total
			NO_x	≤ 530 tpy based on a 12-month rolling total
			CO	≤ 1,792 tpy based on a 12-month rolling total
			NMVOC	≤ 227 tpy based on a 12-month rolling total
			Operating Requirement	Startup, shutdown, and tuning requirements
AA-001 AA-002 AA-003 **With Duct Firing**	11 Miss. Admin. Code Pt. 2, Ch. 5, as established in the PSD Permit to Construct issued on May 31, 2001, and modified on June 13, 2005, September 7, 2011, May 24, 2012, and June 15, 2020 40 CFR 60.332(a)(1) and (b), Subpart GG	3.B.10	PM (filterable) $PM_{10}/PM_{2.5}$	≤ 27.3 lbs/hr
			SO_2	≤ 7.4 lbs/hr
			NO_x	≤ 3.5 ppm @ 15% oxygen on a dry basis, not to exceed 34.3 lbs/hr, both limits are based on a 3-hr rolling average
			CO	≤ 10 ppm @ 15% oxygen on a dry basis, not to exceed 97.9 lbs/hr, both limits are based on a 3-hr rolling average
			NMVOC	≤ 16.4 lbs/hr
			GHG	≤ 1,000 lbs CO2 per MW-hour (12-month rolling average)
AA-001 AA-002 AA-003 **Without Duct Firing**	11 Miss. Admin. Code Pt. 2, Ch. 5, as established in the PSD Permit to Construct issued on May 31, 2001, and modified on June 13, 2005, September 7, 2011, May 24, 2012, and June 15, 2020 40 CFR 60.332(a)(1) and (b), Subpart GG	3.B.11	PM (filterable) $PM_{10}/PM_{2.5}$	≤ 20.5 lbs/hr
			SO_2	≤ 5.9 lbs/hr
			NO_x	≤ 3.5 ppm at 15% oxygen on a dry basis, not to exceed 27.9 lbs/hr, both limits are based on a 3-hr rolling average.
			CO	≤ 7.6 ppm @ 15% oxygen on a dry basis, not to exceed 33.5 lbs/hr, both limits are based on a 3-hr rolling average
			NMVOC	≤ 3.2 lbs/hr
			GHG	≤ 1,000 lbs CO2 per MW-hour (12-month rolling average)

Emission Point(s)	Applicable Requirement	Condition Number	Pollutant / Parameter	Limit / Standard
AA-001 AA-002 AA-003 AA-004 AA-011	11 Miss. Admin. Code Pt. 2, R.1.3.D(1)(b).	3.B.12	PM (filterable)	$E = 0.8808*I^{-0.1667}$
*AA-001 *AA-002 *AA-003 AA-004 ***With Duct Firing**	11 Miss. Admin. Code Pt. 2, R. 1.4.A(1).	3.B.13	SO_2	≤ 4.8 lbs/MMBtu
AA-004	11 Miss. Admin. Code Pt. 2, Ch. 5, as established in the PSD Permit to Construct issued on May 31, 2001, and modified on June 13, 2005, September 7, 2011, May 24, 2012, and June 15, 2020	3.B.14	Hours of Operation	≤ 4,500 hrs/yr on a rolling 12-month total
		3.B.15	NO_x	≤ 6.2 lbs/hr and 13.95 TPY
			Smoke (Opacity)	≤ 10%
	40 CFR 60, Subpart Dc Standards of Performance for Small Industrial- Commercial-Institutional Steam Generating Units 40 CFR 60.40c(a), Subpart Dc	3.B.16	SO_2 PM	General Applicability
AA-009	40 CFR Part 63, Subpart ZZZZ National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines 40 CFR 63.6580, 63.6585(a) and (c), 63.6590(a)(1)(iii), Subpart ZZZZ	3.B.17	HAP	General Applicability
	40 CFR 63.6605, Subpart ZZZZ	3.B.18		General Provisions
	40 CFR 63.6640(f)(1), (2), and (4), Subpart ZZZZ	3.B.19		Operational Requirements
AA-009 AA-010	11 Miss. Admin. Code Pt. 2, R.1.3.D(1)(b).	3.B.20	PM (filterable)	≤ 0.6 lb/MMBtu
AA-010 AA-011	40 CFR Part 63, Subpart ZZZZ National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines 40 CFR 63.6580, 63.6585(a) and (c), 63.6590(a)(2)(iii), and (c)(1), Subpart ZZZZ	3.B.17	HAP	General Applicability

Emission Point(s)	Applicable Requirement	Condition Number	Pollutant / Parameter	Limit / Standard
AA-010 AA-011	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.21	PM (filterable) NMHC NO_x CO SO_2	General Applicability
AA-010	40 CFR 60.4201(a), 60.4204(b), 60.4206, and 60.4211(a)(1)-(3) and (c), Subpart IIII 40 CFR 1039.102, Subpart B, Emission Standards and Certification Provisions Table 5 of 40 CFR 1039.102	3.B.22	PM (filterable) NO_x NMHC CO	≤ 0.02 g/kW-hr ≤ 0.40 g/kW-hr ≤ 0.19 g/kW-hr ≤ 5.0 g/kW-hr
AA-011	40 CFR 60.4202(b)(2), 60.4205(b), 60.4206, and 60.4211(a)(1)-(3) and (c), Subpart IIII and Table 2 of 40 CFR 1039.101, Subpart B	3.B.23	PM (filterable) NO_x + NMHC CO	≤ 0.20 g/kW-hr ≤ 6.4 g/kW-hr ≤ 3.5 g/kW-hr
AA-010 AA-011	40 CFR 60.4207(b), Subpart IIII and 40 CFR 1090.305, Subpart D	3.B.24	SO_2 (Diesel fuel requirements)	Maximum sulfur content of 15 ppm **AND** minimum cetane index of 40 **OR** maximum aromatic content of 35 volume percent
	40 CFR 60.4202(b)(2), 60.4205(b), Subpart IIII and 40 CFR 1039.105, Subpart B	3.B.25	Opacity	≤ 20 percent during the acceleration mode ≤ 15 percent during the lugging mode ≤ 50 percent during the peaks in the acceleration or lugging mode
AA-011	40 CFR 60.4211(f)(1), (2)(i), and (3), Subpart IIII	3.B.26	PM (filterable) NO_x + NMHC CO	Operating requirements
AA-010	11 Miss. Admin. Code Pt. 2, R. 2.2.B(10)., as established in the Title V Operating Permit issued June 15, 2020	3.B.27	Hours of Operation	Shall not operate more than 2,080 hours per year
			Fuel Sulfur Content	Fuel sulfur content shall not exceed 0.0015 percent by weight

3.B.1 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 all applicable requirements as included in Section 8.0 and specified in the Acid Rain Permit attached to this permit in Appendix B.

(Ref.: 40 CFR Parts 72-78)

3.B.2 The duct burners associated with Emission Points AA-001, AA-002, and AA-003, are subject to and shall comply with all applicable regulations of the Standards of Performance for Electric Utility Steam Generating Units, 40 CFR 60, Subpart Da and the applicable General Provisions in 40 CFR 60, Subpart A.

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

3.B.3 For the duct burners associated with Emission Points AA-001, AA-002, and AA-003, the permittee shall not cause a discharge into the atmosphere of any gases that contain the following:

(a) SO_2 in excess of 0.80 lbs/MMBtu heat input and 10 percent of the potential combustion concentration or 0.20 lbs/MMBtu and 100 percent of the combustion concentration.

(b) NO_x in excess of 1.6 lbs/MWh heat input.

(c) The permittee is exempted from the PM emission limits of Subpart Da since the affected units only burn gaseous or liquid fuels with potential SO_2 emission rates of 0.060 lbs/MMBtu or less and does not use a post-combustion technology to reduce emissions of SO_2 or PM.

(d) The permittee is exempt from the opacity standard since the units are fired with natural gas.

(Ref.: 40 CFR 60.42Da(b)(2) and (f)(1), 60.43Da(b)(1) and (2), 60.44Da(d)(1), Subpart Da)

3.B.4 The combustion turbines 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 Stationary Gas Turbines, 40 CFR 60, Subpart GG and the applicable General Provisions in 40 CFR 60, Subpart A.

(Ref.: 40 CFR 60.330(a), Subpart GG)

3.B.5 For Emission Points AA-001, AA-002, and AA-003, the permittee shall not use any fuel which contains sulfur in excess of 0.8 percent by weight.

(Ref.: 11 Miss. Admin. Code Pt. 2, Ch. 5, as established in the PSD Permit to Construct issued May 31, 2001, and modified June 13, 2005, September 7, 2011, May 24, 2012, and June 15, 2020; 40 CFR 60.333(b), Subpart GG)

3.B.6 For Emission Points AA-001, AA-002, and AA-003, the permittee shall use a selective catalytic reduction (SCR) for control of NO_x emissions. The SCR system shall be operated as soon as and as long as the unit operating conditions are amenable to its effective use.

(Ref.: 11 Miss. Admin. Code, Pt. 2, Ch. 5, as established in the PSD Permit to Construct issued May 31, 2001, and modified June 13, 2005, September 7, 2011, May 24, 2012, and June 15, 2020)

3.B.7 For Emission Points AA-001, AA-002, and AA-003, the permittee shall only combust natural gas.

(Ref.: 11 Miss. Admin. Code, Pt. 2, Ch. 5, as established in the PSD Permit to Construct issued May 31, 2001, and modified June 13, 2005, September 7, 2011, May 24, 2012, and June 15, 2020)

3.B.8 For Emission Points AA-001, AA-002, and AA-003, the permittee shall not cause, permit, or allow the emission of smoke into the open air which exceeds 10 percent opacity.

(Ref.: 11 Miss. Admin. Code, Pt. 2, Ch. 5, as established in the PSD Permit to Construct issued May 31, 2001, and modified June 13, 2005, September 7, 2011, May 24, 2012, and June 15, 2020)

3.B.9 For Emission Points AA-001, AA-002, and AA-003, the permittee shall comply with the following emission limits at all times. Compliance with each limit shall be based on a 12-month rolling total:

Pollutant	Limitation/Standard Requirement
Particulate Matter (PM) (filterable)	≤ 351 tpy, as determined by EPA Reference Methods 1-5, 40 CFR 60, Appendix A
Particulate Matter diameter less than 10 microns (PM_{10})	≤ 351 tpy, as determined by EPA Reference Methods 201 or 201A in conjunction with Reference Method 202, 40 CFR 51, Appendix M
Particulate Matter diameter less than 2.5 microns ($PM_{2.5}$)	≤ 351 tpy, as determined by EPA Reference Methods 201 or 201A in conjunction with Reference Method 202, 40 CFR 51, Appendix M
Sulfur Dioxide (SO_2)	≤ 15.5 tpy, as determined by EPA Reference Method 6, 40 CFR 60, Appendix A or an EPA approved fuel sampling/analysis program
Nitrogen Oxides (NO_x)	≤ 530 tpy, as determined by EPA Reference Method 7E and 3A, 40 CFR 60, Appendix A
Carbon Monoxide (CO)	≤ 1,792 tpy, as determined by EPA Reference Method 10, 40 CFR 60, Appendix A
Non-methane VOC (NMVOC)	≤ 227 tpy, as determined by EPA Reference Method 25, 40 CFR 60, Appendix A

The tons per year limit is for all combustion turbines (Emission Points AA-001, AA-002, and AA-003) combined and should include all methods of operation.

For Emission Points AA-001, AA-002 and AA-003, the permittee shall comply with the emission limitations and monitoring requirements at all times including periods of startup, shutdown and tuning sessions. Except for upsets, startups, shutdowns, and tuning sessions, the permittee shall operate under normal operating conditions, which is defined beginning at the point when the turbine combustion system has reached Mode 6Q and thirty (30) minutes after ammonia flow to the SCR system has commenced.

A startup event shall not exceed 6.0-hours in duration and a shutdown event shall not exceed a 1.0-hour duration. Startup is defined as commencing when fuel is first combusted in the combustion turbine and ending when the turbine combustion system has reached stable combustion dynamics in Mode 6Q and thirty (30) minutes after ammonia flow to the SCR system has commenced. Shutdown shall be defined as the period beginning when the combustion turbine leaves operational Mode 6Q and ending when combustion has ceased. The permittee shall monitor and maintain records of the duration of time each emission point engages in periods of both startups and shutdowns. Tuning sessions will normally occur because of required seasonal tuning, after a combustor change-out, after a major repair or maintenance to a combustor, or other similar maintenance circumstance. Tuning sessions are completed periodically to optimize combustion or emission reductions from the turbine. Tuning sessions must be performed in accordance with the manufacturer's recommendations. During the tuning session, all reasonable steps to minimize levels of emissions that exceed the limits of this permit shall be taken.

(Ref.: 11 Miss. Admin. Code, Pt. 2, Ch. 5, as established in the PSD Permit to Construct issued May 31, 2001, and modified June 13, 2005, September 7, 2011, May 24, 2012, and June 15, 2020)

3.B.10 When Emission Points AA-001, AA-002, and AA-003 are operating with the duct burners firing, the permittee shall not allow the emission of PM, PM_{10}, $PM_{2.5}$, SO_2, NO_x, CO, and NMVOC to exceed the standards listed in the table below except during periods of startup, shutdown, and tuning sessions. The permittee is allowed to exclude from the three (3) hour rolling average any hour in which duct burners startup within the last 15 minutes of any hour. The permittee shall comply with the GHG emission limitations in the table below except during periods of startup, shutdown, and tuning sessions.

Pollutant	Limitation/Standard Requirement
PM (filterable)	≤ 27.3 lbs/hr, as determined by EPA Reference Methods 1-5, 40 CFR 60, Appendix A
PM_{10}	≤ 27.3 lbs/hr, as determined by EPA Reference Methods 201 or 201A in conjunction with Reference Method 202, 40 CFR 51, Appendix M
$PM_{2.5}$	≤ 27.3 lbs/hr, as determined by EPA Reference Methods 201 or 201A in conjunction with Reference Method 202, 40 CFR 51, Appendix M
SO_2	≤ 7.4 lbs/hr, as determined by EPA Reference Method 6, 40 CFR 60, Appendix A
NO_x	≤ 3.5 PPM at 15% oxygen on a dry basis, not to exceed 34.3 lbs/hr, both limits are based on a 3-hr rolling average, as determined by EPA Reference Method 7E and 3A, 40 CFR 60, Appendix A
CO	≤ 10 PPM at 15% oxygen on a dry basis, not to exceed 97.9 lbs/hr, both limits are based on a 3-hr rolling average, as determined by EPA Reference Method 10, 40 CFR 60, Appendix A
NMVOC	≤ 16.4 lbs/hr, as determined by EPA Reference Method 25, 40 CFR 60, Appendix A
GHG	12-month rolling average of 1,000 lbs CO_2 per MW-hr (gross) based on combustion design and practices.

(Ref.: 11 Miss. Admin. Code, Pt. 2, Ch. 5, as established in the PSD Permit to Construct issued May 31, 2001, and modified June 13, 2005, September 7, 2011, May 24, 2012, and June 15, 2020; 40 CFR 60.330(a)(1), (b), Subpart GG)

3.B.11 When Emission Points AA-001, AA-002, and AA-003 are operating without the duct burners firing, the permittee shall not allow the emission of PM, PM_{10}, $PM_{2.5}$, SO_2, NO_x, CO, and NMVOC to exceed the standards listed in the table below except during periods of startup, shutdown, and tuning sessions. The permittee shall comply with the GHG emission limitations in the table below except during periods of startup, shutdown, and tuning sessions.

Pollutant	Limitation/Standard Requirement
PM (filterable)	≤ 20.5 lbs/hr, as determined by EPA Reference Methods 1-5, 40 CFR 60, Appendix A
PM_{10}	≤ 20.5 lbs/hr as determined by EPA Reference Methods 201 or 201A in conjunction with Reference Method 202, 40 CFR 51, Appendix M
$PM_{2.5}$	≤ 20.5 lbs/hr as determined by EPA Reference Methods 201 or 201A in conjunction with Reference Method 202, 40 CFR 51, Appendix M
SO_2	≤ 5.9 lb/hr, as determined by EPA Reference Method 6, 40 CFR 60, Appendix A
NO_x	≤ 3.5 ppm at 15% oxygen on a dry basis, not to exceed 27.9 lbs/hr, both limits are based on a 3-hr rolling average, as determined by EPA Reference Method 7E, 40 CFR 60, Appendix A
CO	≤ 7.6 ppm at 15% oxygen on a dry basis, not to exceed 33.5 lbs/hr, both limits are based on a 3-hr rolling average, as determined by EPA Reference Method 10, 40 CFR 60, Appendix A
NMVOC	≤ 3.2 lbs/hr, as determined by EPA Reference Method 25, 40 CFR 60, Appendix A
GHG	12-month rolling average of 1,000 lbs CO_2 per MW-hr (gross) based on combustion design and practices.

(Ref.: 11 Miss. Admin. Code, Pt. 2, Ch. 5, as established in the PSD Permit to Construct issued May 31, 2001, and modified June 13, 2005, September 7, 2011, May 24, 2012, and June 15, 2020; 40 CFR 60.330(a)(1) and (b), Subpart GG)

3.B.12 For Emission Points AA-001, AA-002, AA-003, AA-004, and AA-011, the maximum permissible emission of ash and/or particulate matter from fossil fuel burning installations of equal to or greater than 10 MMBtu/hr hear input but less than 10,000 MMBtu/hr heat input shall not exceed an emission rate a determined by the relationship

$$E=0.8808*I^{-0.1667}$$

where E is the emission rate in pound per MMBtu/hr heat input and I is the heat input in millions of BTU per hour.

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

3.B.13 For Emission Point AA-004 and while the duct burners associated with Emission Points AA-001, AA-002, and AA-003 are firing, the permittee shall not discharge sulfur oxides from any fuel burning installation in which fuel is burned primarily to produce heat or power by indirect heat transfer in excess of 4.8 pounds (measured as sulfur dioxide) per million BTU heat input.

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

3.B.14 For Emission Point AA-004, the permittee shall be limited to less than or equal to 4,500 hours per year determined on a rolling 12-month total basis.

(Ref.: 11 Miss. Admin. Code, Pt. 2, Ch. 5, as established in the PSD Permit to Construct issued May 31, 2001, and modified June 13, 2005, September 7, 2011, May 24, 2012, and June 15, 2020)

3.B.15 For Emission Point AA-004, the permittee shall limit NO_x emissions to less than or equal to 6.2 lbs/hr and 13.95 tpy, as determined by EPA Reference Method 20. The permittee shall not cause, permit, or allow the emission of smoke into the open air which exceeds ten (10) percent opacity as determined by EPA Reference Method 9.

(Ref.: 11 Miss. Admin. Code, Pt. 2, Ch. 5, as established in the PSD Permit to Construct issued May 31, 2001, and modified June 13, 2005, September 7, 2011, May 24, 2012, and June 15, 2020)

3.B.16 Emission Point AA-004 is subject to and shall comply with all applicable requirements of the Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units, 40 CFR 60, Subpart Dc and the applicable General Provisions in 40 CFR 60, Subpart A.

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

3.B.17 Emission Points AA-009, AA-010 and AA-011 are subject to and shall comply with all applicable requirements of the National Emission Standards for Hazardous Air Pollutants (NESHAP) for Stationary Reciprocating Internal Combustion Engines (RICE), 40 CFR 63, Subpart ZZZZ and the applicable General Provisions, 40 CFR 63, Subpart A as identified in Table 8 of Subpart ZZZZ.

For purposes of Subpart ZZZZ, Emission Point AA-009 is considered an existing, emergency, compression ignition (CI) stationary RICE located at an area source of HAP emissions and shall comply with all applicable requirements of Subpart ZZZZ. Emission Points AA-010 and AA-011 are considered new, stationary RICE engines located at an area source of HAP emissions. Per 40 CFR 63.6590(c)(1), Emission Points AA-010 and AA-011 shall comply with Subpart ZZZZ by meeting the applicable requirements of 40 CFR 60, Subpart IIII.

(Ref.: 40 CFR 63.6580, 63.6585(a) and (c), 63.6590(a)(1)(iii), (a)(2)(iii), and (c)(1), Subpart ZZZZ)

3.B.18 For Emission Point AA-009, the permittee shall be in compliance with the emission limitations, operating limitations, and other requirements of Subpart ZZZZ that apply at all times.

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

(Ref.: 40 CFR 63.6605, Subpart ZZZZ)

3.B.19 For Emission Point AA-009, the permittee shall operate the emergency stationary RICE according to the requirements in paragraphs (a) through (c) of this condition. In order for the engine to be considered an emergency stationary RICE under Subpart ZZZZ, any operation other than emergency operation, maintenance and testing, emergency demand response, and operation in non-emergency situations for 50 hours per year, as described in paragraphs (a) through (c) of this condition, is prohibited. If you do not operate the engine according to the requirements in paragraphs (a) through (c) of this section, the engine will not be considered an emergency engine under this subpart and must meet all requirements for non-emergency engines.

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

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

(c) Emergency stationary RICE located at area sources of HAP may be operated for up to 50 hours per calendar year in non-emergency situations. The 50 hours of operation in non-emergency situations are counted as part of the 100 hours per calendar year for maintenance and testing and emergency demand response provided in paragraph (b) of this condition. Except as provided in 40 CFR 63.6640(f)(4)(i) and (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 as part of a

financial arrangement with another entity.

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

3.B.20 For Emission Points AA-009 and AA-010, the maximum permissible emission of ash and/or particulate matter from the fossil fuel burning installation of less than 10 MMBtu/hr heat input shall not exceed 0.6 lbs/MMBtu heat input.

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

3.B.21 Emission Points AA-010 and AA-011 are subject to and shall comply with all applicable requirements of the Standards of Performance for Stationary Compression Ignition Internal Combustion Engines, 40 CFR 60, Subpart IIII and the applicable General Provisions, in 40 CFR 60, Subpart A.

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

3.B.22 For Emission Point AA-010, the permittee shall operate and maintain the engine such that it achieves the emission standards listed below for the life of the engine:

Pollutant	Limitation/Standard Requirement
PM (filterable)	≤ 0.02 gram/kW-hr
NO_x	≤ 0.40 gram/kW-hr
NMHC	≤ 0.19 gram/kW-hr
CO	≤ 5.0 gram/kW-hr

The permittee shall comply with the emission standards above by purchasing, installing, operating, and maintaining an engine certified to meet the emission standards. The permittee shall operate and maintain the engine in accordance with the manufacturer's emission-related written instructions and can only change the emission-related settings that are permitted by the manufacturer.

(Ref.: 40 CFR 60.4201(a), 60.4204(b), 60.4206, and 60.4211(a)(1)-(3) and (c), Subpart IIII; Table 5 of 40 CFR 1039.102, Subpart B)

3.B.23 For Emission Point AA-011, the permittee shall operate and maintain the engine such that it achieves the emission standards listed below for the life of the engine:

Pollutant	Limitation/Standard Requirement
PM (filterable)	≤ 0.03 gram/kW-hr
NO_x	≤ 0.67 gram/kW-hr
NMHC	≤ 0.19 gram/kW-hr
CO	≤ 3.5 gram/kW-hr

The permittee shall comply with the emission standards above by purchasing, installing, operating, and maintaining an engine certified to meet the emission standards. The permittee shall operate and maintain the engine in accordance with the manufacturer's emission-related written instructions and can only change the emission-related settings that are permitted by the manufacturer.

(Ref.: 40 CFR 60.4202(b)(2), 60.4205(b), 60.4206, and 60.4211(a)(1)-(3) and (c), Subpart IIII; Table 1 of 40 CFR 1039.101, Subpart B)

3.B.24 For Emission Points AA-010 and AA-011, 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 IIII and 40 CFR 1090.305, Subpart D)

3.B.25 For Emission Points AA-010 and AA-011, the permittee shall limit opacity from the engine in accordance with the following:

(a) ≤ 20 percent during the acceleration mode;

(b) ≤ 15 percent during the lugging mode;

(c) ≤ 50 percent during the peaks in either the acceleration or lugging mode.

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

3.B.26 Emission Point AA-011 shall be considered an emergency stationary RICE under Subpart IIII provided the engine only operates in an emergency, during maintenance and testing, and during non-emergency situations 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 IIII, 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 engine. The permittee may petition the DEQ for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the permittee maintains records indicating 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), (2)(i), and (3), Subpart IIII)

3.B.27 For Emission Point AA-010, the permittee shall operate the engine according to the following requirements:

(a) The engine shall not operate more than 2,080 hours per year on a rolling 12-month total.

(b) The permittee shall combust No. 2 fuel oil with a maximum sulfur content of 0.0015 percent by weight or lower.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.2.B(10)., as established in the Title V Operating Permit issued June 15, 2020)

C. Insignificant and Trivial Activity Emission Limitations & Standards

Applicable Requirement	Condition Number	Pollutant / Parameter	Limit / Standard
11 Miss. Admin. Code Pt. 2, R. 1.3.D(1)(a).	3.C.1	PM	0.6 lb./MMBTU
11 Miss. Admin. Code Pt. 2, R. 1.4.A(1).	3.C.2	SO_2	4.8 lb./MMBTU

3.C.1 The maximum permissible emission of ash and/or particulate matter (PM) from fossil fuel burning installations of less than ten (10) million BTU (MMBTU) per hour heat input shall not exceed 0.6 pounds per MMBTU per hour heat input.

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

3.C.2 The maximum discharge of sulfur oxides from any fuel burning installation in which the fuel is burned primarily to produce heat or power by indirect heat transfer shall not exceed 4.8 pounds (measured as sulfur dioxide) per MMBTU heat input.

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

D. Work Practice Standards

Emission Point(s)	Applicable Requirement	Condition Number	Pollutant / Parameter	Limit / Standard
AA-009	40 CFR 63.6603(a), 63.6625(i), and Item 4 and Footnotes1 and 2 of 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 Point AA-009, the permittee shall comply with the following requirements:

(a) Change oil and filter every 500 hours of operation or within one (1) year plus thirty (30) days of the previous change, whichever comes first or perform an oil analysis in accordance with 40 CFR 63.6625(i) in the same frequency in order to extend the oil change requirement;

(b) Inspect the air cleaner every 1,000 hours of operation or within one (1) year plus thirty (30) days of the previous inspection, whichever comes first, and replace as necessary; and

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

If the engine is operating during an emergency and it is not possible to shut down the engine in order to perform the management practice requirements on the schedule in (a)-(c) above, or if performing the management practice on the required schedule would otherwise pose an unacceptable risk under Federal, State, or local law, the management practice can be delayed until the emergency is over or the unacceptable risk under Federal, State, or local law has abated. The management practice should be performed as soon as practicable after the emergency has ended or the unacceptable risk under Federal, State, or local law has abated.

(Ref.: 40 CFR 63.6603(a), 63.6625(i), and Item 4 and Footnotes 1 and 2 of Table 2d, Subpart ZZZZ)

3.D.2 For Emission Point AA-009, the permittee shall operate and maintain the engine according to the manufacturer's emission-related written instructions or develop a 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 terms and conditions contained in this permit (including emission limitations, standards, or work practices) by January 31 of each year 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 information:

(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), and (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 the following information:

(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 of each calendar year 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 Regulation 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 period (i.e., April 30, July 31,

October 31, and January 31), and any required annual reports shall be submitted by January 31 following each calendar year.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)(c)(1).)
(Ref.: 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. The report shall be made within five (5) working days of the time the deviation began.

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

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

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

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

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

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

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

B. SPECIFIC MONITORING AND RECORDKEEPING REQUIREMENTS

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, R. 6.3.A(3)., and the PSD Permit to Construct issued May 31, 2001, and modified on June 13, 2005, September 7, 2011, May 24, 2012, and June 15, 2020	5.B.1	NO_x CO	CEMS
		5.B.2	$PM/PM_{10}/PM_{2.5}$ SO_2 NO_x CO NMVOC	Monitor and record operating periods and calculate and maintain emissions
		5.B.3		
	40 CFR 60.48Da(k), 60.49Da(c)(2), (e), (s), and (w), and 60.50Da(d)(2), Subpart Da	5.B.4	NO_x	CEMS
	40 CFR 60.334(b)(2), Subpart GG and 40 CFR 75.2, Subpart A	5.B.5	NO_x CO SO_2	CEMS
	40 CFR 60.334(h)(3), Subpart GG	5.B.6		Fuel records
	11 Miss. Admin. Code Pt. 2, R. 6.3.A(3).	5.B.7	Fuel Requirement	Fuel usage records
	11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)., as established in the Title V Operating Permit issued June 15, 2020	5.B.8	NMVOC	Performance Testing
AA-001 AA-002 AA-003 AA-004	11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)., and the PSD Permit to Construct issued May 31, 2001, and modified on June 13, 2005, September 7, 2011, May 24, 2012, and June 15, 2020	5.B.9	Hours of Operation	Operating records
		5.B.10	Smoke (Opacity)	Annual visual observation
AA-004	11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)., as established in the Title V Operating Permit issued June 15, 2020	5.B.11	Hours of Operation	Monitor and record hours of operation
	11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)., as established in the Title V Operating Permit issued June 15, 2020	5.B.12	NO_x	Performance Testing
	40 CFR 60.48c(g)(2), Subpart Dc	5.B.13	Fuel Usage	Monitor and record fuel usage
AA-009	40 CFR 63.6625(f) and 63.6655(f)(2), Subpart ZZZZ	5.B.14	HAP	Install non-resettable hour meter and record hours of operation
	40 CFR 63.6655(a)(1), (2), and (5), (e)(2), and (f)(2), 63.6660, Subpart ZZZZ	5.B.15		General recordkeeping

Emission Point(s)	Applicable Requirement	Condition Number	Pollutant / Parameter Monitored	Monitoring / Recordkeeping Requirement
AA-010	40 CFR 60.4209(b) and 60.4214(c), Subpart IIII	5.B.16	PM NO_x	Install a backpressure monitor and keep records of corrective actions
	40 CFR 60.4211(g)(2), Subpart IIII	5.B.17		Deviation requirements
	11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)., as established in the Title V Operating Permit issued June 15, 2020	5.B.18		Recordkeeping
AA-011	40 CFR 60.4209(a) and 60.4214(b), Subpart IIII	5.B.19	PM NO_x NMHC CO	Install non-resettable hour meter and record hours of operation on a calendar year basis
AA-010 AA-011	11 Miss. Admin. Code Pt. 2, R. 6.3.A(3).	5.B.20	SO_2	Recordkeeping

5.B.1 For Emission Points AA-001, AA-002 and AA-003, the permittee shall demonstrate compliance with NO_x and CO emission limitations using continuous emission monitoring system (CEMS). Demonstrating compliance with NO_x and CO limits using CEMS data in lieu of EPA Reference Methods is an acceptable practice provided that 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 the Relative Accuracy Test Audits (RATA) required under 40 CFR 75.

The NO_x, CO, and O_2 CEMS shall also be capable of and certified to accurately read/measure NO_x and CO concentrations to comply with the tpy limit.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)., and the PSD Permit to Construct issued May 31, 2001, and modified June 13, 2005, September 7, 2011, May 24, 2012, and June 15, 2020)

5.B.2 For Emission Points AA-001, AA-002, and AA-003, the permittee shall monitor and record the duration of periods of startup, shutdown, and tuning sessions for each emission point. The permittee shall operate the emission points in a manner consistent with good combustion practices, in accordance with the manufacturer's guidelines and procedures to minimize emissions during startup, shutdown, and tuning sessions.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)., and the PSD Permit to Construct issued May 31, 2001, and modified June 13, 2005, September 7, 2011, May 24, 2012, and June 15, 2020)

5.B.3 For Emission Points AA-001, AA-002, and AA-003, the permittee shall demonstrate

compliance with the applicable short and long term emission limits in Section 3.B by calculating and maintaining records of $PM/PM_{10}/PM_{2.5}$, SO_2, NO_x, CO, and NMVOC emissions in lbs/hr and on a 12- month rolling total in tpy.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)., and the PSD Permit to Construct issued May 31, 2001, and modified June 13, 2005, September 7, 2011, May 24, 2012, and June 15, 2020)

5.B.4 For the duct burners associated with Emission Points AA-001 through AA-003, the permittee shall demonstrate compliance with the 40 CFR 60, Subpart Da NO_x emission limit 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(k), 60.49Da(c)(2), (e), (s), and (w), and 60.50Da(d)(2), Subpart Da)

5.B.5 For Emission Points AA-001, AA-002 and AA-003, the permittee shall install, calibrate, maintain and operate continuous monitoring systems for NO_x as specified in 40 CFR 60.334, Appendix B, and 40 CFR 75. The monitoring systems must comply with all applicable requirements specified in 40 CFR 60.334, 60.13, and Appendix B of 40 CFR 60 and 40 CFR 75. In addition, the permittee must comply with the reporting and recordkeeping requirements specified in 40 CFR 60.7 and 40 CFR 75.

The permittee shall install, calibrate, maintain and operate continuous monitoring systems for CO (as specified in 40 CFR 60, Appendix B and Appendix F). The cylinder gas audits (CGA) and relative accuracy test audits (RATA) shall be conducted according to 40 CFR 60, Appendix B and F. However, the frequency of the audits shall be as specified in 40 CFR 75, Appendix B, Section 2.2. The RATA required under 40 CFR 60, Appendix F, shall be at the frequency specified in 40 CFR 75, Appendix B, Section 2.3.1 and is as follows:

A calendar quarter that does not qualify as QA operating quarter shall be excluded in determining the deadline for the next RATA. No more than eight successive calendar quarters shall elapse after the quarter in which a RATA was last performed without a subsequent RATA having been conducted. If the RATA has not been completed by the end of the eighth calendar quarter since the quarter of the last RATA, then the RATA must be completed within a 720 unit (or stack) operating hour grace period following the end of the eighth successive elapsed calendar quarter. For the diluent monitors, RATA may be performed annually (i.e., once every four successive QA operating quarters, rather than once every two successive QA operating quarters).

The NO_x and CO CEMS shall also be capable of and certified to accurately read and measure NO_x and CO concentrations to comply with the applicable tpy emission limits contained in Section 3.B.

(Ref.: 40 CFR 60.334(b)(2), Subpart GG and 40 CFR 75.2, Subpart A)

5.B.6 For Emission Points AA-001, AA-002 and AA-003, the permittee may elect not to monitor the total sulfur content of the gaseous fuel combusted in the turbine, if the permittee is in compliance with the applicable fuel sulfur content requirement in Section 3.B, regardless of whether an existing custom schedule approved by the DEQ for Subpart GG requires such monitoring. The permittee shall use one of the following sources of information to make the required demonstration:

(a) The gas quality characteristics in a current, valid purchase contract, tariff sheet or transportation contract for the gaseous fuel, specifying that the maximum total sulfur content of the fuel is 20.0 grains/100 scf or less; or

(b) Representative fuel sampling data which show that the sulfur content of the gaseous fuel does not exceed 20 grains/100 scf. At a minimum, the amount of fuel sampling data specified in section 2.3.1.4 or 2.3.2.4 of Appendix D to 40 CFR 75 of this chapter is required.

(Ref.: 40 CFR Part 60.334(h)(3), Subpart GG)

5.B.7 For Emission Point AA-001, AA-002, and AA-003, the permittee shall keep records of the amount and fuel type combusted by each emission point.

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

5.B.8 For Emission Points AA-001, AA-002, and AA-003, the permittee shall demonstrate compliance with the applicable NMVOC limitation in Section 3.B by conducting a performance test for each emission point during normal operating conditions. Performance testing shall be completed once every five (5) years, not to exceed 61 months from the previous test. Each performance test shall be conducted in accordance with EPA Reference Method 25 or an approved equivalent test method.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)., as established in the Title V Operating Permit issued June 15, 2020)

5.B.9 For Emission Points AA-001, AA-002, AA-003, and AA-004, a record of operation of the associated combustion turbines, duct burners, boiler, and SCR systems shall be kept and retained for a period of five (5) years and shall be made available to DEQ upon request. Records shall include the date and time operation begins and ends for each emission point, as well as confirmation that good air pollution control practices, as provided in this permit, were followed.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)., and the PSD Permit to Construct issued May 31, 2001, and modified June 13, 2005, September 7, 2011, May 24, 2012, and June 15, 2020)

5.B.10 For Emission Points AA-001, AA-002, AA-003, and AA-004, the permittee shall demonstrate compliance annually with the opacity limit by conducting a Visual Observation using EPA Reference Method 22. If visible emissions are observed during the annual Method 22 evaluation, the permittee shall conduct a Visible Emissions Evaluation (VEE) per EPA Reference Method 9 within seven (7) days of the Method 22 evaluation to demonstrate compliance with the 10% opacity limit.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)., and the PSD Permit to Construct issued May 31, 2001, and modified June 13, 2005, September 7, 2011, May 24, 2012, and June 15, 2020)

5.B.11 For Emission Point AA-004, the permittee shall keep and maintain records documenting the hours of operation on a monthly basis and for each consecutive 12-month rolling period on a rolling basis.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)., as established in the Title V Operating Permit issued June 15, 2020)

5.B.12 For Emission Point AA-004, the permittee shall demonstrate compliance with the applicable NO_x emission limit in Section 3.B by completing a performance test for NO_x emissions using EPA Test Method 20 or any other EPA approved method. The performance test shall be performed once every five (5) years not to exceed 61 months from the previous test.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)., as established in the Title V Operating Permit issued June 15, 2020)

5.B.13 For Emission Point AA-004, the permittee shall record and maintain records of the amount of fuel combusted during each calendar month.

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

5.B.14 For Emission Point AA-009, 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 hours of operation of the engine that is recorded through the hour meter. The permittee shall document how many hours are spent for emergency operation, including what classified the operation as emergency, and how many hours are spent for non-emergency operation.

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

5.B.15 For Emission Point AA-009, the permittee shall keep the following records:

(a) A copy of each report submitted to comply with Subpart ZZZZ.

(b) Records of the occurrence and duration of each malfunction of the engine or hour meter.

(c) Records of the maintenance conducted on the engine in order to demonstrate the engine was operated and maintained in accordance with the maintenance plan.

(d) Records of any 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.

The records required above shall be kept in a form that is readily accessible in either hardcopy or electronic form for five (5) years following the date of each occurrence, measurement, maintenance, corrective action, report, or record.

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

5.B.16 For Emission Point AA-010, the permittee shall install a backpressure monitor that notifies the permittee when the high backpressure limit of the engine is approached.

The permittee shall keep records of any corrective actions taken after the backpressure monitor has notified the permittee that the high backpressure limit of the engine is approached.

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

5.B.17 For Emission Point AA-010, if the permittee does not comply with Condition 3.B.22, the permittee will be required to keep a maintenance plan and records of conducted maintenance and shall, to the extent practicable, maintain and operate the engine in a manner consistent with good air pollution control practice for minimizing emissions. In addition, the permittee shall conduct an initial performance test to demonstrate compliance with the applicable emission standards within one (1) year after an engine and control device is no longer installed, configured, operated, and maintained in accordance with the manufacturer's emission-related written instructions, or within one (1) year after the permittee changes emission-related settings in a way that is not permitted by the manufacturer.

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

5.B.18 For Emission Point AA-010, the permittee shall record and maintain records of the hours of operation and the sulfur content of the No. 2 fuel oil combusted on a monthly basis and for each consecutive 12-month period on a rolling basis.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)., as established in the Title V Operating Permit issued June 15, 2020).

5.B.19 For Emission Point AA-011, 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 by the hour meter on a calendar year basis. The permittee shall record the time of operation and the reason the engine was in operation during that time.

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

5.B.20 For Emission Points AA-010 and AA-011, the permittee shall keep records documenting that all fuel purchased and used in each engine meets the requirements in Condition 3.B.24. These records shall be kept onsite and made available for review upon request by the DEQ.

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

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)(c)(1).	5.C.1	$PM/PM_{10}/PM_{2.5}$ SO_2 NO_x CO NMVOC	Semiannual emissions report
		5.C.2	Operational Data	Semiannual operating report
		5.C.3	NMVOC	Performance test notifications and report
		5.C.4	Operational Data	Tuning Event Notifications
	40 CFR 60.51Da(a), (b), (c), (f), (h), and (j), Subpart Da	5.C.5	NO_x	Semiannual report
	40 CFR 60.334(j), Subpart GG	5.C.6	NO_x	Semiannual excess emission and monitor downtime report
AA-001 AA-002 AA-003 AA-004	11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)(c)(1).	5.C.7	Opacity	Annual report with results from visual observations
AA-004 AA-009 AA-010	11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)(c)(1).	5.C.8	Hours of Operation	Semiannual report
AA-004	11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)(c)(1).	5.C.3	NO_x	Performance test notifications and reports
		5.C.9	Fuel Usage	Semiannual report
AA-009	11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)(c)(1).	5.C.10	Hours of Operation	Annual report summarizing hours of operation during the calendar year
	40 CFR 63.6640(b), 63.6650(f) and Footnote 2 to Table 2d, Subpart ZZZZ	5.C.11	Deviations	Semiannual deviations report
AA-010	11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)(c)(1).	5.C.12	Corrective Actions	Semiannual report summarizing corrective actions taken in response to a backpressure monitoring alarm
AA-011	11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)(c)(1).	5.C.10	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 semiannual reports in accordance with Condition 5.A.4 which summarize the $PM/PM_{10}/PM_{2.5}$, SO_2, NO_x, CO, and NMVOC emission rates for the reporting period in tpy based on a 12-month rolling total.

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

5.C.2 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 operational data for each turbine that identifies the date, duration, and type of event for each startup, shutdown, and tuning session conducted during the semiannual period. This report shall also include the amount of time each turbine operated while the SCR was not operating.

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

5.C.3 For Emission Points AA-001, AA-002, AA-003, and AA-004 the permittee shall submit all performance test reports within 60 days of completing the test.

For all required testing, the permittee shall submit a written test protocol at least 30 days prior to the intended test date(s) to ensure that all test methods and procedures are acceptable to the DEQ. Also, the permittee shall notify the DEQ in writing at least ten (10) days prior to the intended test date(s) so that an observer may be afforded the opportunity to witness the test.

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

5.C.4 For Emission Points AA-001, AA-002, and AA-003, the permittee shall submit notice of tuning events to the DEQ within five (5) working days of the time the tuning event began.

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

5.C.5 For the duct burners associated with Emission Points AA-001, AA-002, and AA-003, the permittee shall submit all data from any performance tests within sixty (60) days of such test. Additionally, the permittee shall submit the following information for each 24-hour period in the semiannual report that shall be postmarked by the 30th day following the end of each six-month period:

(a) Calendar date.

(b) The average NO_x emission rate (lbs/MWh gross energy output) for each thirty (30) successive boiler operating days, ending with the last 30-day period in the quarter; reasons for non-compliance with the emission standards, if any; and, a description of any 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 a description of any corrective actions taken.

(d) Identification of any times when emissions data is excluded from the calculation of average emission rates because of startup, shutdown, or malfunction.

(e) Identification of the "F" factor used for calculations, method of determination, and type of fuel combusted.

(f) Identification of any times the pollutant concentration exceeded full span of the CEMS.

(g) If the minimum quantity of emission data required in (c) above is not obtained for any thirty (30) successive boiler operating days, the permittee shall also report the information required by 40 CFR 60.51Da(c)(1)-(5).

(h) For any periods for which NO_x emissions data is 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 permittee shall submit a signed statement in the report 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.6 For Emission Points AA-001, AA-002, and AA-003, the permittee shall submit reports of excess emissions and monitor downtime semiannually in accordance with Condition 5.A.4 for the NO_x CEMS in accordance with Condition 5.A.4. The report shall be in accordance with 40 CFR 60.7(c) and excess emissions and monitor downtime shall be reported in accordance with 60.334(j)(1)(iii)(A) through(C).

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

5.C.7 For Emission Points AA-001, AA-002, AA-003, and AA-004, the permittee shall submit the results of the Visual Observations and/or any required VEEs annually with the semiannual report due January 31st of each year.

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

5.C.8 For Emission Points AA-004, AA-009, and AA-010, the permittee shall submit

semiannual reports, in accordance with Condition 5.A.4, which contains a summary of the hours of operation of each unit on a monthly and 12-month rolling total basis.

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

5.C.9 For Emission Point AA-004, the permittee shall submit a semiannual report in accordance with Condition 5.A.4 which contains a summary of the amount of fuel combusted each month during the reporting period.

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

5.C.10 For Emission Points AA-009 and AA-011, the permittee shall report the annual hours the 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 31st of each year.

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

5.C.11 For Emission Point AA-009, the permittee shall report each instance in which the management practices were not met. These instances are deviations and must be reported within five (5) business days in accordance with Condition 5.A.5 and included in the semiannual report required by Condition 5.A.4.

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

5.C.12 For Emission Point AA-010, the permittee shall submit a semiannual report in accordance with Condition 5.A.4 which summarizes any corrective actions that were taken during the reporting period in response to a high backpressure alarm.

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

SECTION 6. ALTERNATIVE OPERATING SCENARIOS

6.1 None permitted.

SECTION 7. TITLE VI REQUIREMENTS

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

7.1 If the permittee produces, transforms, destroys, imports or exports a controlled substance or imports or exports a controlled product, the permittee shall comply with the applicable requirements of 40 CFR Part 82, Subpart A – Production and Consumption Controls.

7.2 If the permittee performs service on a motor vehicle for consideration when this service involves the refrigerant in the motor vehicle air conditioner (MVAC), the permittee shall comply with the applicable requirements of 40 CFR Part 82, Subpart B – Servicing of Motor Vehicle Air Conditioners.

7.3 The permittee shall comply with the applicable requirements of 40 CFR Part 82, Subpart E – The Labeling of Products Using Ozone-Depleting Substances, for the following containers and products:

(a) All containers in which a class I or class II substance is stored or transported;

(b) All products containing a class I substance; and

(c) All products directly manufactured with a process that uses a class I substance, unless otherwise exempted by this subpart or, unless EPA determines for a particular product that there are no substitute products or manufacturing processes for such product that do not rely on the use of a class I substance, that reduce overall risk to human health and the environment, and that are currently or potentially available. If the EPA makes such a determination for a particular product, then the requirements of this subpart are effective for such product no later than January 1, 2015.

7.4 If the permittee performs any of the following activities, the permittee shall comply with the applicable requirements of 40 CFR Part 82, Subpart F – Recycling and Emissions Reduction:

(a) Servicing, maintaining, or repairing appliances containing class I, class II or non-exempt substitute refrigerants;

(b) Disposing of appliances, including small appliances and motor vehicle air conditioners; or

(c) Refrigerant reclaimers, technician certifying programs, appliance owners and operators, manufacturers of appliances, manufacturers of recycling and recovery equipment, approved recycling and recovery equipment testing organizations, as

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

7.5 The permittee shall be allowed to switch from any ozone-depleting substance to any acceptable alternative that is listed in the Significant New Alternatives Policy (SNAP) program promulgated pursuant to 40 CFR Part 82, Subpart G – Significant New Alternatives Policy Program. The permittee shall also comply with any use conditions for the acceptable alternative substance.

7.6 If the permittee performs any of the following activities, the permittee shall comply with the applicable requirements of 40 CFR Part 82, Subpart H – Halon Emissions Reduction:

(a) Any person testing, servicing, maintaining, repairing, or disposing of equipment that contains halons or using such equipment during technician training;

(b) Any person disposing of halons;

(c) Manufacturers of halon blends; or

(d) Organizations that employ technicians who service halon-containing equipment.

SECTION 8. ACID RAIN REQUIREMENTS

The permittee shall comply with all requirements of the Phase II Acid Rain Permit attached as Appendix B of this permit. All conditions of the Phase II Acid Rain Permit are effective for the dates specified in the Acid Rain Permit; however, these conditions may be revised by the DEQ 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 Tables. These units are subject to the requirements for the CSAPR NO_x Ozone Season Group 2 Trading Program.

Unit ID: Emission Points AA-001, AA-002, AA-003					
Parameter	Continuous emission monitoring system or systems (CEMS) requirements pursuant to 40 CFR part 75, subpart B (for SO_2 monitoring) and 40 CFR part 75, subpart H (for NO_X monitoring)	Excepted monitoring system requirements for gas- and oil-fired units pursuant to 40 CFR part 75, appendix D	Excepted monitoring system requirements for gas- and oil-fired peaking units pursuant to 40 CFR part 75, appendix E	Low Mass Emissions excepted monitoring (LME) requirements for gas- and oil-fired units pursuant to 40 CFR 75.19	EPA-approved alternative monitoring system requirements pursuant to 40 CFR part 75, subpart E
SO_2		X			
NO_X	X				
Heat Input		X			

9.2 The above description of the monitoring used by a unit does not change, create an exemption from, or otherwise affect the monitoring, recordkeeping, and reporting requirements applicable to the unit under 40 CFR 97.830 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 on 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 requirements 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 the EPA's 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_x 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_x Ozone Season Group 2 source and each CSAPR NO_x Ozone Season 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_x 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_x 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_x emissions requirements:

(1) CSAPR NO_x 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_x Ozone Season Group 2 source and each CSAPR NO_x Ozone Season Group 2 unit at the source shall hold, in the source's compliance account, CSAPR NO_x 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_x emissions for such control period from all CSAPR NO_x Ozone Season Group 2 units at the source.

(ii) If total NO_x emissions during a control period in a given year from the CSAPR NO_x Ozone Season Group 2 units at a CSAPR NO_x Ozone Season Group 2 source are in excess of the CSAPR NO_x 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_x Ozone Season Group 2 unit at the source shall hold the CSAPR NO_x 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_x 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_x Ozone Season Group 2 assurance provisions

(i) If total NO_x emissions during a control period in a given year from all CSAPR NO_x Ozone Season Group 2 units at CSAPR NO_x 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_x emissions during such control period exceeds the common designated representative's assurance level for the state and such control period, shall hold (in the assurance account established for the owners and operators of such group) CSAPR NO_x 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_x emissions exceeds the common designated representative's assurance level divided by the sum of the amounts, determined for all common designated representatives for such sources and units in the state (and Indian country within the borders of such state) for such control period, by which each common designated representative's share of such NO_x emissions exceeds the respective common designated representative's assurance level; and

(B) The amount by which total NO_X emissions from all CSAPR NO_x Ozone Season Group 2 units at CSAPR NO_x Ozone Season sources in the state and Indian country within the borders of such state) for such control period exceed the state assurance level.

(ii) The permittee shall hold the CSAPR NO_x Ozone Season Group 2 allowances required under paragraph 93.7 (c)(2)(i) above, as of midnight of November 1 (if it is a business day), or midnight of the first business day thereafter (if November 1 is not a business day), immediately after such control period.

(iii) Total NO_X emissions from all CSAPR NO_x Ozone Season Group 2 units at CSAPR NO_x 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_x emissions exceed the sum, for such control period, of the State NO_x Ozone Season 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_x emissions from all CSAPR NO_x Ozone Season Group 2 units at CSAPR NO_x 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_x emissions from the CSAPR NO_x Ozone Season Group 2 units at CSAPR NO_x 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_x Ozone Season Group 2 allowances for a control period in a given year in accordance with paragraphs 9.7(c)(2)(i) through (iii) above.

(A) The permittee shall pay any fine, penalty, or assessment or comply with any other remedy imposed under the Clean Air Act; and

(B) Each CSAPR NO_x Ozone Season Group 2 allowance that the permittee fails to hold for such control period in accordance with paragraphs 9.7(c)(2)(i) through (iii) above and each day of such control period shall constitute a separate violation of 40 CFR part 97, subpart EEEEE and the Clean Air Act.

(3) Compliance periods:

(i) A CSAPR NO_x Ozone Season Group 2 unit shall be subject to the requirements under paragraph 9.7(c)(1) above for the control period starting on the later of May 1, 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 CSAPR NO_x 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_x Ozone Season Group 2 allowance held for compliance with the requirements under paragraph 9.7(c)(1)(i) above for a control period in a given year must be a CSAPR NO_x Ozone Season Group 2 allowance that was allocated for such control period or a control period in a prior year.

(ii) A CSAPR NO_x Ozone Season Group 2 allowance held for compliance with the requirements under paragraphs 9.7(c)(1)(ii)(A) and (2)(i) through (iii) above for a control period in a given year must be a CSAPR NO_x 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_x 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_x Ozone Season Group 2 allowance is a limited authorization to emit one ton of NO_x during the control period in one year. Such authorization is limited in its use and duration as follows:

(i) Such authorization shall only be used in accordance with the CSAPR NO_x 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_x 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_x 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_x Ozone Season Group 2 source and each CSAPR NO_x 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_x Ozone Season unit at the source and all documents that demonstrate the truth of the statements in the certificate of representation; provided that the certificate and documents shall be retained on site at the source beyond such 5-year period until such certificate of representation and documents are superseded because of the submission of a new certificate of representation under 40 CFR 97.816 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_x Ozone Season Group 2 Trading Program.

(2) The designated representative of a CSAPR NO_x Ozone Season Group 2 source and each CSAPR NO_x Ozone Season Group 2 unit at the source shall make all submissions required under the CSAPR NO_x 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_x Ozone Season Group 2 Trading Program that applies to a CSAPR NO_x Ozone Season Group 2 source or the designated representative of a CSAPR NO_x Ozone Season Group 2 source shall also apply to the permittee of such source and of the CSAPR NO_x Ozone Season Group 2 units at the source.

(2) Any provision of the CSAPR NO_x Ozone Season Group 2 Trading Program that applies to a CSAPR NO_x Ozone Season Group 2 unit or the designated representative of a CSAPR NO_x 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_x 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_x Ozone Season Group 2 source or CSAPR NO_x 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	Department of Environmental Quality
EPA	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
MMBTU/H	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 Part 61; or National Emission Standards for Hazardous Air Pollutants for Source Categories, 40 CFR Part 63
NMVOC	Non-Methane Volatile Organic Compounds
NO_X	Nitrogen Oxides
NSPS	New Source Performance Standards, 40 CFR Part 60
O&M	Operation and Maintenance
PM	Particulate Matter
PM_{10}	Particulate Matter less than 10 µm in diameter
$PM_{2.5}$	Particulate Matter less than 2.5 µm in diameter
ppm	Parts per Million
PSD	Prevention of Significant Deterioration
SIP	State Implementation Plan
SO_2	Sulfur Dioxide
SSM	Startup, Shutdown, and Malfunction
TPY	Tons per Year
TRS	Total Reduced Sulfur
VEE	Visible Emissions Evaluation
VHAP	Volatile Hazardous Air Pollutant
VOHAP	Volatile Organic Hazardous Air Pollutant
VOC	Volatile Organic Compound

APPENDIX B

PHASE II ACID RAIN PERMIT

PHASE II ACID RAIN PERMIT

Issued to: TVA Magnolia Combined Cycle
Operated by: Tennessee Valley Authority
ORIS code: 55451
Effective: ***October 16, 2026*** *to* ***September 30, 2031***

Summary of Previous Actions:

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

(1)	Draft permit for public and EPA comment.	November 2, 2001
(2)	Permit finalized and issued.	January 2, 2002
(3)	Draft permit for public comment.	January 17, 2007
(4)	Draft permit for EPA comment.	February 27, 2007
(5)	Permit finalized and issued.	May 1, 2007
(6)	Draft permit for public and EPA comment.	April 28, 2020
(7)	Permit finalized and issued.	June 15, 2020

Present Actions:

(1)	Draft permit for public and EPA comment.	July 8, 2026
(2)	Permit finalized and issued	October 16, 2026

Jaricus Whitlock
Signature

October 16, 2026
Date

Jaricus Whitlock, P.E.
Chief, Air Division
Mississippi Department of Environmental Quality
P.O. Box 2261
Jackson, MS 39225-2261
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PHASE II ACID RAIN PERMIT

Issued to: TVA Magnolia Combined Cycle
Operated by: Tennessee Valley Authority
ORIS code: 55451
Effective: ***October 16, 2026** to **September 30, 2031***

ACID RAIN PERMIT CONTENTS:

(1) Statement of Basis.

(2) SO_2 allowances allocated under this permit and NO_x requirements for each affected unit.

(3) Comments, notes, and justifications regarding permit decisions and changes made to the permit application forms during the review process, and any additional requirements or conditions.

(4) The permit application submitted for this source. The owners and operators of the sources must comply with the standard requirements and special provisions set forth in the application.

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(1) STATEMENT OF BASIS:

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

(2) SO_2 ALLOWANCE ALLOCATIONS AND NO_x REQUIREMENTS FOR EACH AFFECTED UNIT:

		2025	2026	2027	2028	2029
AA-001 AA-002 AA-003	**SO_2 allowances, under Table 2 of 40 CFR Part 73.**	NA	NA	NA	NA	NA
	NO_x limit	NA				

(3) COMMENTS, NOTES, AND JUSTIFICATIONS:

All affected units are natural gas fired units; therefore, the affected units are not subject to the NO_x requirements outlined in 40 CFR Part 76. Additionally, these are new units that were not listed in 40 CFR 73, Tables 2, 3, or 4, and have not been allocated any SO_2 allowances.

(4) PHASE II PERMIT APPLICATIONS:

Attached

United States
Environmental Protection Agency
Acid Rain Program

OMB No. 2060-0258
Approval expires 05/31/2025

Acid Rain Permit Application

For more information, see instructions and 40 CFR 72.30 and 72.31.

This submission is: ☐ new ☐ revised ☒ for ARP permit renewal

STEP 1

Identify the facility name, State, and plant (ORIS) code.

Facility (Source) Name	State	Plant Code
Magnolia	MS	55451

STEP 2

Enter the unit ID# for every affected unit at the affected source in column "a."

a	b
Unit ID#	Unit Will Hold Allowances in Accordance with 40 CFR 72.9(c)(1)
CTG-1	Yes
CTG-2	Yes
CTG-3	Yes

EPA Form 7610-16 (Revised 07-2022)

Facility (Source) Name (from STEP 1) Magnolia

STEP 3

Read the standard requirements.

Permit Requirements

(1) The designated representative of each affected source and each affected unit at the source shall:
- (i) Submit a complete Acid Rain permit application (including a compliance plan) under 40 CFR part 72 in accordance with the deadlines specified in 40 CFR 72.30; and
- (ii) Submit in a timely manner any supplemental information that the permitting authority determines is necessary in order to review an Acid Rain permit application and issue or deny an Acid Rain permit;

(2) The owners and operators of each affected source and each affected unit at the source shall:
- (i) Operate the unit in compliance with a complete Acid Rain permit application or a superseding Acid Rain permit issued by the permitting authority; and
- (ii) Have an Acid Rain Permit.

Monitoring Requirements

(1) The owners and operators and, to the extent applicable, designated representative of each affected source and each affected unit at the source shall comply with the monitoring requirements as provided in 40 CFR part 75.

(2) The emissions measurements recorded and reported in accordance with 40 CFR part 75 shall be used to determine compliance by the source or unit, as appropriate, with the Acid Rain emissions limitations and emissions reduction requirements for sulfur dioxide and nitrogen oxides under the Acid Rain Program.

(3) The requirements of 40 CFR part 75 shall not affect the responsibility of the owners and operators to monitor emissions of other pollutants or other emissions characteristics at the unit under other applicable requirements of the Act and other provisions of the operating permit for the source.

Sulfur Dioxide Requirements

(1) The owners and operators of each source and each affected unit at the source shall:
- (i) Hold allowances, as of the allowance transfer deadline, in the source's compliance account (after deductions under 40 CFR 73.34(c)), not less than the total annual emissions of sulfur dioxide for the previous calendar year from the affected units at the source; and
- (ii) Comply with the applicable Acid Rain emissions limitations for sulfur dioxide.

(2) Each ton of sulfur dioxide emitted in excess of the Acid Rain emissions limitations for sulfur dioxide shall constitute a separate violation of the Act.

(3) An affected unit shall be subject to the requirements under paragraph (1) of the sulfur dioxide requirements as follows:
- (i) Starting January 1, 2000, an affected unit under 40 CFR 72.6(a)(2); or
- (ii) Starting on the later of January 1, 2000 or the deadline for monitor certification under 40 CFR part 75, an affected unit under 40 CFR 72.6(a)(3).

(4) Allowances shall be held in, deducted from, or transferred among Allowance Tracking System accounts in accordance with the Acid Rain Program.

(5) An allowance shall not be deducted in order to comply with the requirements under paragraph (1) of the sulfur dioxide requirements prior to the calendar year for which the allowance was allocated.

(6) An allowance allocated by the Administrator under the Acid Rain Program is a limited authorization to emit sulfur dioxide in accordance with the Acid Rain Program. No provision of the Acid Rain Program, the Acid Rain permit application, the Acid Rain permit, or an exemption under 40 CFR 72.7 or 72.8 and no provision of law shall be construed to limit the authority of the United States to terminate or limit such authorization.

(7) An allowance allocated by the Administrator under the Acid Rain Program does not constitute a property right.

Nitrogen Oxides Requirements

The owners and operators of the source and each affected unit at the source shall comply with the applicable Acid Rain emissions limitation for nitrogen oxides.

Facility (Source) Name (from STEP 1) Magnolia

STEP 3, Cont'd.

Excess Emissions Requirements

(1) The designated representative of an affected source that has excess emissions in any calendar year shall submit a proposed offset plan, as required under 40 CFR part 77.
(2) The owners and operators of an affected source that has excess emissions in any calendar year shall:
   (i) Pay without demand the penalty required, and pay upon demand the interest on that penalty, as required by 40 CFR part 77; and
   (ii) Comply with the terms of an approved offset plan, as required by 40 CFR part 77.

Recordkeeping and Reporting Requirements

(1) Unless otherwise provided, the owners and operators of the source and each affected unit at the source shall keep on site at the source each of the following documents for a period of 5 years from the date the document is created. This period may be extended for cause, at any time prior to the end of 5 years, in writing by the Administrator or permitting authority:
   (i) The certificate of representation for the designated representative for the source and each affected unit at the source and all documents that demonstrate the truth of the statements in the certificate of representation, in accordance with 40 CFR 72.24; provided that the certificate and documents shall be retained on site at the source beyond such 5-year period until such documents are superseded because of the submission of a new certificate of representation changing the designated representative;
   (ii) All emissions monitoring information, in accordance with 40 CFR part 75, provided that to the extent that 40 CFR part 75 provides for a 3-year period for recordkeeping, the 3-year period shall apply.
   (iii) Copies of all reports, compliance certifications, and other submissions and all records made or required under the Acid Rain Program; and,
   (iv) Copies of all documents used to complete an Acid Rain permit application and any other submission under the Acid Rain Program or to demonstrate compliance with the requirements of the Acid Rain Program.
(2) The designated representative of an affected source and each affected unit at the source shall submit the reports and compliance certifications required under the Acid Rain Program, including those under 40 CFR part 72 subpart I and 40 CFR part 75.

Liability

(1) Any person who knowingly violates any requirement or prohibition of the Acid Rain Program, a complete Acid Rain permit application, an Acid Rain permit, or an exemption under 40 CFR 72.7 or 72.8, including any requirement for the payment of any penalty owed to the United States, shall be subject to enforcement pursuant to section 113(c) of the Act.
(2) Any person who knowingly makes a false, material statement in any record, submission, or report under the Acid Rain Program shall be subject to criminal enforcement pursuant to section 113(c) of the Act and 18 U.S.C. 1001.
(3) No permit revision shall excuse any violation of the requirements of the Acid Rain Program that occurs prior to the date that the revision takes effect.
(4) Each affected source and each affected unit shall meet the requirements of the Acid Rain Program.
(5) Any provision of the Acid Rain Program that applies to an affected source (including a provision applicable to the designated representative of an affected source) shall also apply to the owners and operators of such source and of the affected units at the source.
(6) Any provision of the Acid Rain Program that applies to an affected unit (including a provision applicable to the designated representative of an affected unit) shall also apply to the owners and operators of such unit.
(7) Each violation of a provision of 40 CFR parts 72, 73, 74, 75, 76, 77, and 78 by an affected source or affected unit, or by an owner or operator or designated representative of such source or unit, shall be a separate violation of the Act.

Facility (Source) Name (from STEP 1) Magnolia

STEP 3, Cont'd.

Effect on Other Authorities

No provision of the Acid Rain Program, an Acid Rain permit application, an Acid Rain permit, or an exemption under 40 CFR 72.7 or 72.8 shall be construed as:

(1) Except as expressly provided in title IV of the Act, exempting or excluding the owners and operators and, to the extent applicable, the designated representative of an affected source or affected unit from compliance with any other provision of the Act, including the provisions of title I of the Act relating to applicable National Ambient Air Quality Standards or State Implementation Plans;

(2) Limiting the number of allowances a source can hold; provided, that the number of allowances held by the source shall not affect the source's obligation to comply with any other provisions of the Act;

(3) Requiring a change of any kind in any State law regulating electric utility rates and charges, affecting any State law regarding such State regulation, or limiting such State regulation, including any prudence review requirements under such State law;

(4) Modifying the Federal Power Act or affecting the authority of the Federal Energy Regulatory Commission under the Federal Power Act; or,

(5) Interfering with or impairing any program for competitive bidding for power supply in a State in which such program is established.

STEP 4

Read the certification statement, sign, and date.

Certification

I am authorized to make this submission on behalf of the owners and operators of the affected source or affected units for which the submission is made. I certify under penalty of law that I have personally examined, and am familiar with, the statements and information submitted in this document and all its attachments. Based on my inquiry of those individuals with primary responsibility for obtaining the information, I certify that the statements and information are to the best of my knowledge and belief true, accurate, and complete. I am aware that there are significant penalties for submitting false statements and information or omitting required statements and information, including the possibility of fine or imprisonment.

Name Allen A. Clare	
Signature Allen Clare	Date 12/16/2024