

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

TO OPERATE AIR EMISSIONS EQUIPMENT

THIS CERTIFIES THAT

Mississippi Power Company, David M Ratcliffe
5835 Highway 493
DeKalb, Mississippi
Kemper 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: _____

Effective Date: As specified herein.

MISSISSIPPI ENVIRONMENTAL QUALITY PERMIT BOARD

AUTHORIZED SIGNATURE
MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY

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

Permit No.: 0800-00050

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SECTION 1. GENERAL CONDITIONS

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

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

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

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

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

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

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

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

- (1) Additional applicable requirements under the Federal Act become applicable to a major Title V source with a remaining permit term of three (3) or more years. Such a reopening shall be completed no later than eighteen (18) months after promulgation of the applicable requirement. No such reopening is required if the effective date of the requirement is later than the date on which the permit is due to expire, unless the original permit or any of its terms and conditions has been extended.
- (2) Additional requirements (including excess emissions requirements) become applicable to an affected source under the acid rain program. Upon approval by the Administrator, excess emissions offset plans shall be deemed to be incorporated into the permit.
- (3) The Permit Board or EPA determines that the permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the permit.
- (4) The Administrator or the Permit Board determines that the permit must be revised or revoked to assure compliance with the applicable requirements.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

- 1.14 Compliance with the conditions of this permit shall be deemed compliance with any applicable requirements as of the date of permit issuance upon satisfying one of the following conditions:
- (a) Such applicable requirements are included and are specifically identified in the permit; or
 - (b) The Permit Board, in acting on the permit application or revision, determines in writing that other requirements specifically identified are not applicable to the permittee and the permit includes such determination (or a concise summary thereof).

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

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

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

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

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

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

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

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

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

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

- (a) The changes are not modifications under any provision of Title I of the Federal Act;
- (b) The changes do not exceed the emissions allowable under this permit;
- (c) The permittee provides the Administrator and the Department with written notification in advance of the proposed changes [i.e., at least seven (7) days or such

other time frame as provided in other regulations for emergencies] and the notification includes the following information:

- (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 ordnance.

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

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

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

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

- (a) Upsets (as defined in 11 Miss. Admin. Code Pt. 2, R. 1.2.)
 - (1) For an upset, the Commission may pursue an enforcement action for noncompliance with an emission standard or other requirement of an applicable rule, regulation, or permit. In determining whether to pursue enforcement action, and/or the appropriate enforcement action to take, the Commission may consider whether the source has demonstrated through properly signed contemporaneous operating logs or other relevant evidence the following:

- (i) An upset occurred and that the source can identify the cause(s) of the upset;
 - (ii) The source was at the time being properly operated;
 - (iii) During the upset the source took all reasonable steps to minimize levels of emissions that exceeded the emission standard or other requirement of an applicable rule, regulation, or permit;
 - (iv) That within five (5) working days of the time the upset began, the source submitted a written report to the Department describing the upset, the steps taken to mitigate excess emissions or any other non-compliance, and the corrective actions taken and;
 - (v) That as soon as practicable but no later than twenty-four (24) hours of becoming aware of an upset that caused an immediate adverse impact to human health or the environment beyond the source boundary or caused a general nuisance to the public, the source provided notification to the Department.
- (2) In any enforcement proceeding by the Commission, the source seeking to establish the occurrence of an upset has the burden of proof.
 - (3) This provision is in addition to any upset provision contained in any applicable requirement.
 - (4) These upset provisions apply only to enforcement actions by the Commission and are not intended to prohibit EPA or third-party enforcement actions.
- (b) Start-ups and Shutdowns (as defined in 11 Miss. Admin. Code Pt. 2, R. 1.2.)
- (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	Description
AB-001	2,270 MMBTU/hr (nominal) natural gas fired Combustion Turbine with Ultra Low NO _x Burners and a Heat Recovery Steam Generator with a 737 MMBTU/hr natural gas fired Duct Burner. Emissions are controlled by a selective catalytic reduction (SCR) unit.
AB-002	2,270 MMBTU/hr (nominal) natural gas fired Combustion Turbine with Ultra Low NO _x Burners and a Heat Recovery Steam Generator with a 737 MMBTU/hr natural gas fired Duct Burner. Emissions are controlled by a selective catalytic reduction (SCR) unit.
AC-001	12-Cell Mechanical Draft Cooling Tower
AC-003a	510 HP (460 kW/3.57 MMBtu/hr) diesel-fired Emergency Fire Pumps (John Deer/Clark Model #JX6H-UFAD60 manufactured in 2011)
AC-003b	510 HP (460 kW/3.57 MMBtu/hr) diesel-fired Emergency Fire Pumps (John Deer/Clark Model #JX6H-UFAD60 manufactured in 2011)
AC-004	3,000-gallon Unleaded Gasoline Storage Tank equipped with a Stage 1 vapor recovery system (Constructed in 2015)

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
AB-001 AB-002	11 Miss. Admin. Code Pt. 2, Ch. 5., as established in the PSD Construction Permit issued October 22, 2008, and modified March 9, 2010, October 24, 2012, and April 29, 2015 11 Miss. Admin. Code Pt. 2, R. 2.2.B(10), as established in the Permit to Construct issued June 12, 2018, and modified February 6, 2020	3.B.1	NO _x	0.015 lb/MMBTU, not to exceed 39 lb/hr and 170.82 tons/year
		3.B.2	CO	0.063 lb/MMBTU, not to exceed 127 lb/hr
		3.B.3	PM/PM ₁₀ (filterable)	0.01 lb/MMBTU, not to exceed 24 lb/hr and 105.12 tons/year
		3.B.4	VOC	0.008 lb/MMBTU, not to exceed 21 lb/hr and 91 tons/year
		3.B.5	SO ₂	1.9 lb/hr and 8.32 tons/year
		3.B.6	Opacity	20% (six-minute average), except for one six-minute period per hour of not more than 27%
AB-001 AB-002	11 Miss. Admin. Code Pt. 2, Ch. 5., as established in the PSD Construction Permit issued October 22, 2008, and modified March 9, 2010, October 24, 2012, and April 29, 2015 11 Miss. Admin. Code Pt. 2, R. 2.2.B(10), as established in the Permit to Construct issued June 12, 2018, and modified February 6, 2020	3.B.7	Fuel Restriction	Natural gas only
		3.B.8	Startup and Shutdown	Definition of startup and shutdown; emissions during startup and shutdown
AB-001 AB-002	40 CFR 72-78 Acid Rain Program Provisions 40 CFR 72.6, Subpart A	3.B.9	NO _x SO ₂	Applicability
AB-001 AB-002	40 CFR 97, Subpart EEEEE Cross State Air Pollution Rule (CSAPR) NO _x Ozone Season Group 2 Trading Program 40 CFR 97.804, Subpart EEEEE	3.B.10	NO _x	Applicability
AB-001 AB-002	40 CFR 60, Subpart KKKK Standards of Performance for Stationary Combustion Turbines 40 CFR 60.4305 and 60.4333(a), Subpart KKKK	3.B.11	NO _x SO ₂	Applicability
	40 CFR 60.4320(a) and Table 1, Subpart KKKK	3.B.12	NO _x	15 ppm at 15% O ₂

Emission Point(s)	Applicable Requirement	Condition Number	Pollutant / Parameter	Limit / Standard
AB-001 AB-002	40 CFR 60.4330(a)(2), Subpart KKKK	3.B.13	SO ₂	0.060 lb/MMBTU
AB-001 AB-002	11 Miss. Admin. Code Pt. 2, R. 1.3.D(1)(b).	3.B.14	PM (filterable only)	$E = 0.8808 * I^{-0.1667}$
AC-001	11 Miss. Admin. Code Pt. 2, Ch. 5., as established in the PSD Construction Permit issued October 22, 2008, and modified March 9, 2010, October 24, 2012, and April 29, 2015	3.B.15	PM (filterable only)	0.0005% drift rate
AC-003a AC-003b	11 Miss. Admin. Code Pt. 2, R. 1.3.D(1)(a).	3.B.16	PM (filterable only)	0.6 lb/MMBTU
	40 CFR 63, Subpart ZZZZ NESHAP for Stationary Reciprocating Internal Combustion Engines 40 CFR 63.6585, and 63.6590(a)(2)(iii) and (c)(1), Subpart ZZZZ	3.B.17	HAP	Applicability
	40 CFR 60, Subpart IIII Standards of Performance for Stationary Compression Ignition Internal Combustion Engines 40 CFR 60.4200(a)(2)(ii), 60.4218(a), and Table 8, Subpart IIII	3.B.18	NMHC+NO _x , PM (filterable only), CO, SO ₂	Applicability
	40 CFR 60.4205(c), 60.4206, and Table 4, Subpart IIII	3.B.19	NMHC+NO _x CO PM (filterable only)	4.0 g/kW-hr (3.0 g/HP-hr) 3.5 g/kW-hr (2.6 g/HP-hr) 0.2 g/kW-hr (0.15 g/HP-hr)
	40 CFR 60.4207(b), Subpart IIII and 40 CFR 1090.305, ULSD Standards	3.B.20	Diesel Fuel Specifications	Max sulfur content of diesel fuel ≤15 ppm Min. cetane index of 40 or max aromatic content of 35 volume percent
	40 CFR 60.4211(a)(1)-(3) and (c), Subpart IIII	3.B.21	NMHC+NO _x PM (filterable only), CO, SO ₂	Certified engine requirements
	40 CFR 60.4211(f), Subpart IIII	3.B.22		Operating requirements

Emission Point(s)	Applicable Requirement	Condition Number	Pollutant / Parameter	Limit / Standard
AC-004	40 CFR 63, Subpart CCCCCC NESHAP for Source Category: Gasoline Dispensing Facilities 40 CFR 63.11111(a) and (b), 63.11130, and Table 3, Subpart CCCCCC	3.B.23	HAP	Applicability

3.B.1 For Emission Points AB-001 and AB-002, the permittee shall limit emissions of NO_x from each to 0.015 lb/MMBTU, not to exceed 39 lb/hr (with both limits determined on a rolling 24-operating hour average) and 170.82 tons/year (12-month rolling total).

(Ref.: 11 Miss. Admin. Code Pt. 2, Ch. 5., as established in the PSD Construction Permit issued October 22, 2008, and modified March 9, 2010, October 24, 2012, and April 29, 2015; and 11 Miss. Admin. Code Pt. 2, R. 2.2.B(10)., as established in the Permit to Construct issued June 12, 2018, and modified February 6, 2020)

3.B.2 For Emission Points AB-001 and AB-002, the permittee shall limit emissions of Carbon Monoxide (CO) from each to 0.063 lb/MMBTU, not to exceed 127 lb/hr (with both limits determined on a rolling 24-operating hour average).

(Ref.: 11 Miss. Admin. Code Pt. 2, Ch. 5., as established in the PSD Construction Permit issued October 22, 2008, and modified March 9, 2010, October 24, 2012, and April 29, 2015; and 11 Miss. Admin. Code Pt. 2, R. 2.2.B(10)., as established in the Permit to Construct issued June 12, 2018, and modified February 6, 2020)

3.B.3 For Emission Points AB-001 and AB-002, the permittee shall limit emissions of filterable Particulate Matter (PM/PM₁₀) from each to 0.01 lb/MMBTU, not to exceed 24 lb/hr (with both limits determined on a 3-hour block average) and 105.12 tons/year (12-month rolling total).

(Ref.: 11 Miss. Admin. Code Pt. 2, Ch. 5., as established in the PSD Construction Permit issued October 22, 2008, and modified March 9, 2010, October 24, 2012, and April 29, 2015; and 11 Miss. Admin. Code Pt. 2, R. 2.2.B(10)., as established in the Permit to Construct issued June 12, 2018, and modified February 6, 2020)

3.B.4 For Emission Points AB-001 and AB-002, the permittee shall limit emissions of Volatile Organic Compounds (VOC) from each to 0.008 lb/MMBTU not to exceed 21 lb/hr (with both limits determined on a 3-hour block average) and 91 tons/year (12-month rolling total).

(Ref.: 11 Miss. Admin. Code Pt. 2, Ch. 5., as established in the PSD Construction Permit issued October 22, 2008, and modified March 9, 2010, October 24, 2012, and April 29,

2015; and 11 Miss. Admin. Code Pt. 2, R. 2.2.B(10), as established in the Permit to Construct issued June 12, 2018, and modified February 6, 2020)

- 3.B.5 For Emission Points AB-001 and AB-002, the permittee shall limit emissions of Sulfur Dioxide (SO₂) from each to less than 1.9 lb/hr (determined on a 3-hour block average via fuel monitoring) and 8.32 tons/year (12-month rolling total).

(Ref.: 11 Miss. Admin. Code Pt. 2, Ch. 5., as established in the PSD Construction Permit issued October 22, 2008, and modified March 9, 2010, October 24, 2012, and April 29, 2015; and 11 Miss. Admin. Code Pt. 2, R. 2.2.B(10), as established in the Permit to Construct issued June 12, 2018, and modified February 6, 2020)

- 3.B.6 For Emission Points AB-001 and AB-002, the opacity shall not exceed 20% (six-minute average) except for one six-minute period per hour of not more than 27%, as determined by EPA Reference Method 9, 40 CFR 60, Appendix A.

(Ref.: 11 Miss. Admin. Code Pt. 2, Ch. 5., as established in the PSD Construction Permit issued October 22, 2008, and modified March 9, 2010, October 24, 2012, and April 29, 2015; and 11 Miss. Admin. Code Pt. 2, R. 2.2.B(10), as established in the Permit to Construct issued June 12, 2018, and modified February 6, 2020)

- 3.B.7 For Emission Points AB-001 and AB-002, the permittee shall only burn pipeline quality natural gas.

(Ref.: 11 Miss. Admin. Code Pt. 2, Ch. 5., as established in the PSD Construction Permit issued October 22, 2008, and modified March 9, 2010, October 24, 2012, and April 29, 2015; and 11 Miss. Admin. Code Pt. 2, R. 2.2.B(10), as established in the Permit to Construct issued June 12, 2018, and modified February 6, 2020)

- 3.B.8 For Emission Points AB-001 and AB-002, the permittee shall not use emissions generated during startup and shutdown to determine compliance with the short-term emission limits. However, emissions generated during startup and shutdown shall be included when determining compliance with the annual emission limits.

For compliance purposes, turbine startup shall be defined as the period of time when a unit initiates firing until the unit reaches 60% load. Turbine shutdown is defined as the period of time from 60% load to the cessation of turbine firing.

(Ref.: 11 Miss. Admin. Code Pt. 2, Ch. 5., as established in the PSD Construction Permit issued October 22, 2008, and modified March 9, 2010, October 24, 2012, and April 29, 2015; and 11 Miss. Admin. Code Pt. 2, R. 2.2.B(10), as established in the Permit to Construct issued June 12, 2018, and modified February 6, 2020)

- 3.B.9 Emission Points AB-001 and AB-002 are subject to the applicable Acid Rain Program Provisions as specified in 40 CFR 72-78 and Section 8.0 of this permit. The permittee

shall comply with the Acid Rain Permit incorporated in this Title V Operating Permit as Appendix C.

(Ref.: 40 CFR 72-78, Acid Rain Program Provisions)

- 3.B.10 For Emission Points AB-001 and AB-002, the permittee is subject to the applicable requirements of the Cross State Air Pollution Rule (CSAPR) NO_x Ozone Season Group 2 Trading Program, 40 CFR 97, Subpart EEEEE and shall comply with the applicable provisions in Section 9.0 of this permit.

(Ref.: 40 CFR 97.804, Subpart EEEEE)

- 3.B.11 Emission Points AB-001 and AB-002 are subject to and shall comply with all applicable requirements of the Standards of Performance for Stationary Combustion Turbines, 40 CFR 60, Subpart KKKK and the General Provisions, 40 CFR 60, Subpart A. The duct burners associated with the combined cycle combustion turbines are regulated under Subpart KKKK and, as such, are exempted from the requirements of 40 CFR 60, Subpart Db.

The permittee shall operate and maintain the stationary combustion turbines, air pollution control equipment, and monitoring equipment in a manner consistent with good air pollution control practices for minimizing emissions at all times including during startup, shutdown, and malfunction.

(Ref.: 40 CFR 60.4305 and 60.4333(a), Subpart KKKK)

- 3.B.12 For Emission Points AB-001 and AB-002, the permittee shall limit emissions of NO_x from each turbine and duct burner to less than or equal to 15 ppm at 15% O₂.

(Ref.: 40 CFR 60.4320(a) and Table 1, Subpart KKKK)

- 3.B.13 For Emission Points AB-001 and AB-002, the permittee shall not burn in either stationary combustion turbine or duct burner, any fuel which contains total potential sulfur emissions in excess of 0.060 lb/MMBTU heat input.

(Ref.: 40 CFR 60.4330(a)(2), Subpart KKKK)

- 3.B.14 For Emission Points AB-001 and AB-002, the permittee shall not have particulate emissions from fossil fuel burning installations of greater than 10 million BTU per hour heat input that exceeds the emission rate as determined by the relationship:

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

Where E is the emission rate in pounds per million BTU per hour heat input and I is the heat input in millions of BTU per hour.

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

- 3.B.15 For Emission Point AC-001, the permittee shall install high-efficiency drift eliminators. The drift eliminators shall be guaranteed by the manufacturer for a total liquid drift not to exceed a 0.0005% drift rate.

(Ref.: 11 Miss. Admin. Code Pt. 2, Ch. 5., as established in the PSD Construction Permit issued October 22, 2008, and modified March 9, 2010, October 24, 2012, and April 29, 2015)

- 3.B.16 For Emission Point AC-003, the maximum permissible emission of ash and/or particulate matter from fossil fuel burning installations of less than 10 million BTU per hour heat input shall not exceed 0.6 pounds per million BTU per hour heat input.

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

- 3.B.17 For Emission Points AC-003a and AC-003b, the permittee is 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.

For purposes of this subpart, these engines are considered new, emergency, compression ignition (CI) stationary RICE located at an area source of HAP emissions. As such, the permittee shall comply with Subpart ZZZZ by complying with the applicable requirements of the Standards of Performance for Stationary Compression Ignition Internal Combustion Engines, 40 CFR 60, Subpart IIII.

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

- 3.B.18 For Emission Points AC-003a and AC-003b, the permittee is subject to and shall comply with all applicable requirements of the Standards of Performance for Stationary Compression Ignition Internal Combustion Engines, 40 CFR 60, Subpart IIII and with the General Provisions of 40 CFR 60, Subpart A as required by Table 8 to Subpart IIII.

(Ref.: 40 CFR 60.4200(a)(2)(ii), 60.4218(a), and Table 8, Subpart IIII)

- 3.B.19 For Emission Points AC-003a and AC-003b, the permittee shall operate and maintain each engine such that they achieve the following emission standards for the life of the engine:

- (a) Non-methane hydrocarbon and nitrogen oxides (NMHC + NO_x) ≤ 4.0 g/kW-hr (3.0 g/HP-hr)
- (b) CO ≤ 3.5 g/kW-hr (2.6 g/HP-hr)

(c) $PM \leq 0.2$ g/kW-hr (0.15 g/HP-hr)

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

3.B.20 For Emission Points AC-003a and AC-003b, the permittee shall use diesel fuel that meets the following per gallon standards:

(a) Maximum sulfur content of ≤ 15 ppm, and

(b) Minimum cetane index of 40 or a maximum aromatic content of 35 volume percent.

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

3.B.21 For Emission Points AC-003a and AC-003b, the permittee shall comply with the applicable emission standards contained in Condition 3.B.19 by purchasing, installing, operating, and maintaining the engines certified to meet the emission standards. The permittee shall operate and maintain the engines 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 60.4211(a)(1)-(3) and (c), Subpart III)

3.B.22 Emission Points AC-003a and AC-003b shall be considered emergency stationary RICE under Subpart III provided the engines only operate in an emergency, during maintenance and testing, and during non-emergency situations for 50 hours per year as described in (c) below. If the permittee does not operate the engines according to the requirements in (a)-(c) below, the engines will not be considered emergency engines under Subpart III, and they must then meet all requirements for non-emergency engines.

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

(b) The permittee may operate the engines for maintenance checks and readiness testing for a maximum of 100 hours per calendar year provided the tests are recommended by federal, state, or local government, the manufacturer, the vendor, the regional transmission organization or equivalent balancing authority and transmission operator, or insurance company associated with the engines. The permittee may petition the 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 engines beyond 100 hours per calendar year.

(c) Emergency engines may be operated for up to 50 hours per calendar year in non-emergency situations. The 50 hours of operation in non-emergency situations are counted as part of the 100 hours per calendar year for maintenance and testing provided in paragraph (b). Except as provided in 40 CFR 60.4211(f)(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), Subpart IIII)

- 3.B.23 Emission Point AC-004 is subject to and shall comply with all the applicable requirements of 40 CFR 63, Subpart CCCCCC, the NESHAP for Source Category: Gasoline Dispensing Facilities and the applicable General Provisions in 40 CFR 60, Subpart A, as required by Table 3 to Subpart CCCCCC. The facility has a monthly throughput of less than 10,000 gallons of gasoline and shall comply with the work practice standards found in Section 3.D of this permit.

(Ref.: 40 CFR 63.11111(a) and (b), 63.11130, and Table 3, Subpart CCCCCC)

C. INSIGNIFICANT AND TRIVIAL ACTIVITY EMISSION LIMITATIONS & STANDARDS

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

D. WORK PRACTICE STANDARDS

Emission Point(s)	Applicable Requirement	Condition Number	Pollutant / Parameter	Limit / Standard
AC-004	40 CFR 63.11116(a), Subpart CCCCCC	3.D.1	HAP	Minimize gasoline vapor releases

3.D.1 For Emission Point AC-004, the permittee shall not allow gasoline to be handled in a manner that would result in vapor releases to the atmosphere for extended periods of time. Measures to be taken include, but are not limited to, the following:

- (a) Minimize gasoline spills;
- (b) Clean up spills as expeditiously as practicable;
- (c) Cover all open gasoline containers and all gasoline storage tank fill-pipes with a gasketed seal when not in use; and
- (d) Minimize gasoline sent to open waste collection systems that collect and transport gasoline to reclamation and recycling devices, such as oil/water separators.

(Ref.: 40 CFR 63.11116(a), Subpart CCCCCC)

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
AB-001 AB-002	11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)(a)(2).	5.B.1	Operating Requirement	Minimize emissions
		5.B.2	CO	Performance testing
		5.B.3	VOC	
	40 CFR 60.4340(b)(1) and 60.4335(b)(1), Subpart KKKK; and 11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)(a)(2).	5.B.4	NO _x	CEMS
		5.B.5		
	40 CFR 60.4350 and 60.4380(b), Subpart KKKK	5.B.6		Recordkeeping – excess emissions
	40 CFR 60.4365(a) and (b), Subpart KKKK	5.B.7	SO ₂	Records documenting fuel quality characteristics
	40 CFR 75.57(a), Subpart F Acid Rain Program	5.B.8	NO _x SO ₂	General recordkeeping requirement
AC-001	11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)(c)(1).	5.B.9	PM	Recordkeeping
AC-003a AC-003b	40 CFR 60.4209(a) and 60.4214(b), Subpart III	5.B.10	NMHC + NO _x , PM (filterable only), CO	Install non-resettable hour meter and record hours of operation
	11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)(a)(2).	5.B.11	SO ₂	Records concerning specifications of diesel fuel
AC-004	40 CFR 63.11111(e) and 63.11116(b), Subpart CCCCCC	5.B.12	HAP	Records documenting monthly throughputs

5.B.1 For Emission Points AB-001 and AB-002, the permittee shall operate the combustion turbines in a manner consistent with good air pollution control practices to minimize emissions during startup and shutdowns. This operation shall occur in accordance with the manufacturer’s written instructions or other written instructions developed and maintained by the permittee. The instructions shall include a review of the operating

parameters of the unit during startups or shutdowns as necessary to make adjustments to reduce or eliminate excess emissions. The SCR system shall be operated as soon as and as long as the unit operating conditions are amenable to its effective use. The SCR system shall be maintained in accordance with written procedures developed and maintained by the permittee, and the procedures shall be reviewed at least biennially by December 31st of each odd-numbered year.

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

- 5.B.2 For Emission Points AB-001 and AB-002, the permittee shall demonstrate compliance with the CO emission limits by stack testing biennially (not to exceed 25 months from the previous test) in accordance with EPA Reference Method 10 or an EPA-approved equivalent.

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

- 5.B.3 For Emission Points AB-001 and AB-002, the permittee shall demonstrate compliance with the VOC emission limits by stack testing biennially (not to exceed 25 months from the previous test) in accordance with EPA Reference Method 25A/18 or an EPA-approved equivalent.

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

- 5.B.4 For Emission Points AB-001 and AB-002, the permittee shall install, certify, maintain, and operate a CEMS consisting of a NO_x monitor and a diluent gas (oxygen or carbon dioxide) monitor to determine the hourly NO_x emission rate in parts per million (ppm) to demonstrate compliance with Condition 3.B.12.

The NO_x CEMS shall also be capable of and certified to accurately read/measure NO_x concentrations to comply with the lb/MMBTU, lb/hr, and ton/year limits established in Condition 3.B.1. The permittee shall maintain a data substitution protocol for the CEMS in case of malfunction to calculate the lb/MMBTU, lb/hr, and ton/year emissions for NO_x. The permittee shall maintain a Data Acquisition Handling System (DAHS) in accordance with the approved protocol and use this data to calculate the lb/MMBTU, lb/hr, and ton/year NO_x emissions for each required averaging period.

(Ref.: 40 CFR 60.4340(b)(1) and 60.4335(b)(1), Subpart KKKK; and 11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)(a)(2).)

- 5.B.5 For the CEMS on Emission Points AB-001 and AB-002, the permittee shall:

- (a) Install and certify each NO_x diluent CEMS in accordance with Performance Specification 2 found in Appendix B of 40 CFR 60, except the 7-day calibration drift is based on unit operating days instead of calendar days. With DEQ approval, Procedure 1 in Appendix F of 40 CFR 60 is not required. A NO_x diluent CEMS

installed and certified per Appendix A of 40 CFR 75 is acceptable to satisfy the Subpart KKKK requirements. The relative accuracy test audit (RATA) of the CEMS shall be performed on a lb/MMBTU basis.

- (b) During each full unit operating hour, both the NO_x and diluent monitors must complete a minimum of one cycle of operation (sampling, analyzing, and data recording) for each 15-minute quadrant of the hour, to validate the hour. For partial operating hours, at least one valid data point must be obtained with each monitor for each quadrant of the hour in which the unit operates. For unit operating hours in which required quality assurance and maintenance activities are performed on the CEMS, a minimum of two valid data points (one in each of two quadrants) are required for each monitor to validate the NO_x emission rate for the hour.
- (c) Each fuel flowmeter shall be installed, calibrated, maintained, and operated according to the manufacturer's instructions or shall meet the installation, certification, and quality assurance requirements of Appendix D of 40 CFR 75.
- (d) The permittee shall develop and keep on-site a quality assurance (QA) plan for all the continuous monitoring equipment. For the CEMS and fuel flow meters, the permittee may satisfy the QA requirement of Subpart KKKK by implementing the QA program and plan described in Section 1 of Appendix B of 40 CFR 75.

(Ref.: 40 CFR 60.4345(a), (b) , (c), and (e), Subpart KKKK)

5.B.6 For Emission Points AB-001 and AB-002, the permittee shall use the following information from the CEMS to identify excess emissions:

- (a) All CEMS data must be reduced to hourly averages as specified in 40 CFR 60.13(h).
- (b) For each unit operating hour in which a valid hourly average is obtained for both NO_x and diluent monitors, the data acquisition and handling system must calculate and record the hourly NO_x emission rate in units of ppm or lb/MMBTU, using the appropriate equation from Method 19 in Appendix A of 40 CFR 60. For any hour in which the hourly average O₂ concentration exceeds 19.0 percent O₂ (or the hourly average CO₂ concentration is less than 1.0 percent CO₂), a diluent cap value of 19.0 percent O₂ or 1.0 percent CO₂ (as applicable) may be used in the emissions calculations.
- (c) Correction of measured NO_x concentrations to 15 percent O₂ is not allowed.
- (d) If a NO_x diluent CEMS has been installed and certified to meet the requirements of 40 CFR 75, the DEQ can approve that only quality assured data from the CEMS shall be used to identify excess emissions under Subpart KKKK. Periods where the

missing data substitution procedures in subpart D of 40 CFR 75 are applied are to be reported as monitor downtime in the excess emissions and monitoring performance report required under 40 CFR 60.7(c).

- (e) All required fuel flow rate, steam flow rate, temperature, pressure, and megawatt data must be reduced to hourly averages.
- (f) Calculate the hourly average NO_x emission rates, in units of the emission standards in Condition 3.B.12.
- (g) Use the calculated hourly average emission rates from (f) to assess excess emissions on a 30 unit operating day rolling average basis, as described below.

Excess emissions are considered to be any unit operating periods in which the 30-day rolling average NO_x emission rate exceeds the applicable emission limit in Condition 3.B.12. The 30-day rolling average NO_x emission rate is the arithmetic average of all hourly NO_x emission data in ppm or lb/MWh measured by the CEMS for any given day and the 29-unit operating days immediately preceding that unit operating day. A new 30-day average is calculated each unit operating day as the average of all hourly NO_x emission rates for the preceding 30 unit operating days if a valid NO_x emission rate is obtained for at least 75 percent of all operating hours.

Monitor downtime is any unit operating hour in which the data for any of the following data parameters are either missing or invalid: NO_x concentration, CO₂ or O₂ concentration, fuel flow rate, or megawatts.

(Ref.: 40 CFR 60.4350 and 60.4380(b), Subpart KKKK)

- 5.B.7 For Emission Points AB-001 and AB-002, the permittee shall demonstrate compliance with the SO₂ emission standard in Condition 3.B.13 using a current, valid purchase contract, tariff sheet or transportation contract for natural gas that specifies the total sulfur content of the fuel contains 20 grains of sulfur or less per 100 standard cubic feet. Alternatively, the permittee shall use representative fuel sampling data to show that the sulfur content of the fuel does not exceed 26 ng SO₂/J (0.060 lb SO₂/MMBtu) heat input. 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 part 75 is required.

(Ref.: 40 CFR 60.4365(a) and (b), Subpart KKKK)

- 5.B.8 For Emission Points AB-001 and AB-002, the permittee shall monitor and keep records of emissions in accordance with 40 CFR 75. The permittee shall maintain a file on site of all measurements, data, reports, and other required information for each affected unit for a period of at least three (3) years from the date of each record.

(Ref.: 40 CFR 75.57(a), Subpart F)

- 5.B.9 For Emission Point AC-001, the permittee shall keep records of all maintenance activities to document the facility is maintaining and operating the cooling tower in accordance with the manufacturer's specifications.

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

- 5.B.10 For Emission Points AC-003a and AC-003b, the permittee shall install a non-resettable hour meter on the engine (if not already installed). The permittee shall keep records of the hours of operation of the engine that are recorded through the hour meter. The records shall indicate 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 60.4209(a) and 60.4214(b), Subpart IIII)

- 5.B.11 For Emission Points AC-003a and AC-003b, the permittee shall maintain records documenting the diesel fuel meets the requirements of 40 CFR 1090.305 for nonroad diesel fuel.

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

- 5.B.12 For Emission Point AC-004, the permittee shall keep records to document the monthly throughput (gallons). These records shall be made available for inspection within 24 hours of a request by the DEQ.

(Ref.: 40 CFR 63.11111(e) and 63.11116(b), Subpart CCCCCC)

C. SPECIFIC REPORTING REQUIREMENTS

Emission Point(s)	Applicable Requirement	Condition Number	Pollutant / Parameter Monitored	Reporting Requirement
AB-001 AB-002	11. Miss. Admin. Code Pt. 2, R. 6.3.A(3)(c)(1).	5.C.1	PM/PM ₁₀ , VOC, NO _x , and SO ₂	Semiannual report of 12-month rolling total emissions
		5.C.2	CO VOC	Stack test notifications
	40 CFR 60.4375(a), Subpart KKKK	5.C.3	NO _x	Excess emissions and monitor downtime reporting
	11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)(c)(1).	5.C.4	Operating Requirement	Provide information on most recent review of procedures required by Condition 5.B.1
AC-003a AC-003b	11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)(c)(1).	5.C.5	Hours of operation	Annual report summarizing hours of operation in emergency and non-emergency use

5.C.1 For Emission Points AB-001 and AB-002, the permittee shall submit semiannual reports in accordance with Condition 5.A.4 containing a summary of emissions in tons/year for PM/PM₁₀, VOC, NO_x, and SO₂ for each rolling 12-month period.

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

5.C.2 For Emission Points AB-001 and AB-002, the permittee shall submit a written test protocol at least thirty (30) days prior to the scheduled test date(s) to ensure that all test methods and procedures are acceptable to the DEQ. The protocol shall address the conditions under which the unit will be operated during testing and how and which operating parameters will be monitored during the test. The permittee shall provide a written notification of the scheduled test date(s) at least ten (10) days prior to such date so that an observer may be scheduled to witness the test(s). The results of the performance tests shall be submitted within sixty (60) days following the completion of the performance tests.

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

5.C.3 For Emission Points AB-001 and AB-002, the permittee shall submit semiannual reports in accordance with Condition 5.A.4 of excess emissions and monitor downtime during the reporting period. The information provided in the report shall be in accordance with the requirements contained in 40 CFR 60.7(c) Periods of excess emissions shall also address any emissions exceeding the limits in Condition 3.B.1.

(Ref.: 40 CFR 60.4375(a), Subpart KKKK; and 11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)(c)(1).)

- 5.C.4 For Emission Points AB-001 and AB-002, the permittee shall note in the semiannual report required by Condition 5.A.4 the date of the most recent review of the procedures required by Condition 5.B.1, including the person(s) who reviewed the procedures, and a summary of changes made to the procedures, if any.

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

- 5.C.5 For Emission Points AC-003a and AC-003b, the permittee shall submit an annual report summarizing the hours of operation of the engine that is recorded through the non-resettable hour meter. The permittee must document how many hours are spent for emergency operation, including what classified the operation as emergency, and how many hours are spent for non-emergency operation. This report shall be submitted with the semiannual report due January 31st, as required by Condition 5.A.4.

(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 C of this permit. All conditions of the Phase II Acid Rain Permit are effective for the dates specified in the Acid Rain Permit; however, these conditions may be revised by the 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 Table. These units are subject to the requirements for the CSAPR NO_x Ozone Season Group 2 Trading Program.

Unit ID: Emission Points AB-001 and AB-002					
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 at the EPA’s website at <https://www.epa.gov/airmarkets/monitoring-plans-part-75-sources>.

9.4 The permittee that wants to use an alternative monitoring system must submit to the Administrator a petition requesting approval of the alternative monitoring system in accordance with 40 CFR part 75, subpart E and 40 CFR 75.66 and 97.835. The Administrator’s response approving or disapproving any petition for an alternative monitoring system is available on the EPA’s website at <https://www.epa.gov/airmarkets/part-75-petition-responses>.

- 9.5 The permittee that wants to use an alternative to any monitoring, recordkeeping, or reporting requirement under 40 CFR 97.830 through 97.834 must submit to the Administrator a petition requesting approval of the alternative in accordance with 40 CFR 75.66 and 97.835. The Administrator's response approving or disapproving any petition for an alternative to a monitoring, recordkeeping, or reporting requirement is available on EPA website at <https://www.epa.gov/airmarkets/part-75-petition-responses>.
- 9.6 The descriptions of monitoring applicable to the unit included above meet the requirement of 40 CFR 97.830 through 97.834, and therefore minor permit modification procedures, in accordance with 40 CFR 70.7(e)(2)(i)(B) or 71.7(e)(1)(i)(B), may be used to add to or change this unit's monitoring system description.
- 9.7 CSAPR NO_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 Group 2 unit at the source shall comply with the monitoring, reporting, and recordkeeping requirements of 40 CFR 97.830 (general requirements, including installation, certification, and data accounting, compliance deadlines, reporting data, prohibitions, and long-term cold storage), 97.831 (initial monitoring system certification and recertification procedures), 97.832 (monitoring system out-of-control periods), 97.833 (notifications concerning monitoring), 97.834 (recordkeeping and reporting, including monitoring plans, certification applications, quarterly reports, and compliance certification), and 97.835 (petitions for alternatives to monitoring, recordkeeping, or reporting requirements).
 - (2) The emissions data determined in accordance with 40 CFR 97.830 through 97.835 shall be used to calculate allocations of CSAPR NO_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 Group 2 sources in the state and Indian country within the borders of such state) for such control period exceed the state assurance level.
- (ii) The permittee shall hold the CSAPR NO_x Ozone Season Group 2 allowances required under paragraph (c)(2)(i) above, as of midnight of November 1 (if it is a business day), or midnight of the first business day thereafter (if November 1 is not a business day), immediately after such control period.
 - (iii) Total NO_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 Group 2 trading budget under 40 CFR 97.810(a) and the state's variability limit under 40 CFR 97.810(b).
 - (iv) It shall not be a violation of 40 CFR part 97, subpart EEEEE or of the Clean Air Act if total NO_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 (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 (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 (c)(1) above for the control period starting on the later of May 1, 2017, or the deadline for meeting the unit's monitor certification requirements under 40 CFR 97.830(b) and for each control period thereafter.
- (ii) A base CSAPR NO_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 (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 (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 Group 2 unit at the source and all documents that demonstrate the truth of the statements in the certificate of representation; provided that the certificate and documents shall be retained on site at the source beyond such 5-year period until such certificate of representation and documents are superseded because of the submission of a new certificate of representation under 40 CFR 97.816 changing the designated representative.
 - (ii) All emissions monitoring information, in accordance with 40 CFR part 97, subpart EEEEE.
 - (iii) Copies of all reports, compliance certifications, and other submissions and all records made or required under, or to demonstrate compliance with the requirements of, the CSAPR NO_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

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

APPENDIX B

List of Regulations Referenced In this Permit

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

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

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

40 CFR 82, Protection of Stratospheric Ozone

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

40 CFR 60, Subpart KKKK, Standards of Performance for Stationary Combustion Turbines

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

40 CFR 63, Subpart CCCCCC, NESHAP for Source Category: Gasoline Dispensing Facilities

40 CFR 72-78, Acid Rain Program General Provisions

40 CFR 97, Cross State Air Pollution Rule (CSAPR)

APPENDIX C

PHASE II ACID RAIN PERMIT

PHASE II ACID RAIN PERMIT

Issued to: David M. Ratcliffe
Operated by: Mississippi Power Company
ORIS code: 57037
Effective: *[Permit Issuance] to [Permit Expiration]*

Summary of Previous Actions:

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

1) Draft permit for public and EPA comment.	December 18, 2020
2) Permit finalized and issued.	February 6, 2020

Present Action:

3) Draft permit for public and EPA comment	
--	--

Signature

Date

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

PHASE II ACID RAIN PERMIT

Issued to: David M. Ratcliffe
Operated by: Mississippi Power Company
ORIS code: 57037
Effective: **[Permit Issuance] to [Permit Expiration]**

ACID RAIN PERMIT CONTENTS:

- 1) Statement of Basis.
- 2) SO₂ allowances allocated under this permit and NO_x requirements for each affected unit.
- 3) Comments, notes and justifications regarding permit decisions and changes made to the permit application forms during the review process, and any additional requirements or conditions.
- 4) The permit application submitted for this source. The owners and operators of the source must comply with the standard requirements and special provisions set forth in the application.

1) STATEMENT OF BASIS:

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

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

		2025	2026	2027	2028	2029
AB-001 AB-002	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 units that were not listed in 40 CFR 73, Tables 2, 3, or 4, and have not been allocated any SO₂ allowances.

4) PHASE II PERMIT APPLICATION:

Attached