STATE OF MISSISSIPPI
AIR POLLUTION CONTROL
TITLE V PERMIT

TO OPERATE AIR EMISSIONS EQUIPMENT

THIS CERTIFIES THAT

Cooperative Energy, a Mississippi Electric Cooperative
Moselle Generating Plant
308 Moselle Seminary Road
Moselle, Mississippi
Jones County

has been granted permission to operate air emissions equipment in accordance with emission limitations, monitoring requirements and conditions set forth herein. This permit is issued in accordance with Title V of the Federal Clean Air Act (42 U.S.C.A. § 7401 - 7671) and the provisions of the Mississippi Air and Water Pollution Control Law (Section 49-17-1 et. seq., Mississippi Code of 1972), and the regulations and standards adopted and promulgated thereunder.

Permit Issued: September 30, 2024

Permit Modified: August 14, 2025 (Minor Mod)

Effective Date: As specified herein.

MISSISSIPPI ENVIRONMENTAL QUALITY PERMIT BOARD

Becky Simonson

AUTHORIZED SIGNATURE
MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY

Expires: August 31, 2029 **Permit No.: 1360-00035**

5099 PER20230001

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SECTION 1. GENERAL CONDITIONS

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

1.5 The permittee shall furnish to the MDEQ within a reasonable time any information the MDEQ 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 MDEQ copies of records required to be kept by the permittee or, for information to be confidential, the permittee shall furnish such records to MDEQ along with a claim of confidentiality. The permittee may furnish such records directly to the Administrator along with a claim of confidentiality.

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

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

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

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

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

1.8 The permittee shall pay to the MDEQ an annual permit fee. The amount of fee shall be determined each year based on the provisions of regulated pollutants for fee purposes and the fee schedule specified in the Commission on Environmental Quality's order which shall be issued in accordance with the procedure outlined in Regulation 11 Miss. Admin. Code Pt. 2, Ch. 6.

(a) For purposes of fee assessment and collection, the permittee shall elect for actual or allowable emissions to be used in determining the annual quantity of emissions unless the Commission determines by order that the method chosen by the applicant for calculating actual emissions fails to reasonably represent actual emissions. Actual emissions shall be calculated using emission monitoring data or direct emissions measurements for the pollutant(s); mass balance calculations such as the amounts of the pollutant(s) entering and leaving process equipment and where mass balance calculations can be supported by direct measurement of process parameters, such direct measurement data shall be supplied; published emission factors such as

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

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

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

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

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

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

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

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

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

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

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

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

1.10 Any document required by this permit to be submitted to the MDEQ 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 MDEQ, or an authorized representative, upon the presentation of credentials and other documents as may be required by law, to perform the following:

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

(1) a brief description of the change(s),

(2) the date on which the change will occur,

(3) any change in emissions, and

(4) any permit term or condition that is no longer applicable as a result of the change;

(d) the permit shield shall not apply to any Section 502(b)(10) change.

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

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

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

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

(a) routine maintenance, repair, and replacement;

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

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

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

(1) the source was capable of accommodating before January 6, 1975, unless such change would be prohibited under any federally enforceable permit condition which was established after January 6, 1975, pursuant to 40 CFR 52.21 or under regulations approved pursuant to 40 CFR 51, Subpart I, or 40 CFR 51.166; or

(2) the source is approved to use under any permit issued under 40 CFR 52.21 or under regulations approved pursuant to 40 CFR Part 51, Subpart I, or 40 CFR 51.166;

(e) an increase in the hours of operation or in the production rate unless such change would be prohibited under any federally enforceable permit condition which was established after January 6, 1975, pursuant to 40 CFR 52.21 or under regulations approved pursuant to 40 CFR Subpart I or 40 CFR 51.166; or

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

(3) Where an upset as defined in Rule 1.2 occurs during startup or shutdown, see the upset requirements above.

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

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

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

SECTION 2. EMISSION POINTS & POLLUTION CONTROL DEVICES

Emission Point	Description
AA-003	668 MMBtu/hr Natural Gas Fired Boiler (Unit No. 3 Boiler)
AA-004	1.6 MMBtu/hr (173.5 HP/469.4 kW) Diesel Fired Emergency Fire Pump Engine (Model Year 2010)
AA-005	1,547 MMBtu/hr Natural Gas Fired Simple Cycle Combustion Turbine (SCCT) equipped with Dry Low NO_x Burners (Unit 4 SCCT)
AA-006	1,143 MMBtu/hr Natural Gas Fired SCCT equipped with Dry Low NO_x Burners and inlet combustion air evaporative cooling (Unit 5 SCCT)
AA-007	3.6 MMBtu/hr Natural Gas Fired Heater
AA-008	1,260 MMBtu/hr (103 MW) Natural Gas Fired SCCT equipped with Dry Low NO_x Burners (Unit 6 SCCT)
AA-009	1,260 MMBtu/hr (103 MW) Natural Gas Fired SCCT equipped with Dry Low NO_x Burners (Unit 7 SCCT)
AA-010	Natural Gas Fired Combined Cycle Combustion Turbine (AA-008 Turbine) equipped with a Heat Recovery Steam Generator (HRSG), Dry Low NO_x Burners, and Selective Catalytic Reduction (SCR). The HRSG is equipped with a 245 MMBtu/hr Duct Burner. Total Heat Input is 1,505 MMBtu/hr (Unit 6 CCCT).
AA-011	Natural Gas Fired Combined Cycle Combustion Turbine (AA-008 Turbine) equipped with a HRSG, Dry Low NO_x Burners, and SCR. The HRSG is equipped with a 245 MMBtu/hr Duct Burner. Total Heat Input is 1,505 MMBtu/hr (Unit 7 CCCT).
AA-012	9.8 MMBtu/hr Natural Gas Fired Pre-heater
AA-013	9.8 MMBtu/hr Natural Gas Fired Pre-heater
AA-015	9.45 MMBtu/hr (1,474 HP/1,000 kW) Diesel Fired Emergency Generator (Model Year 2017)

SECTION 3. EMISSION LIMITATIONS & STANDARDS

A. Facility-Wide Emission Limitations & Standards

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

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

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

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

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

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

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

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

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

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

B. Emission Point Specific Emission Limitations & Standards

Emission Point(s)	Applicable Requirement	Condition Number(s)	Pollutant/ Parameter	Limit/Standard
AA-003 AA-005 AA-006 AA-008 AA-009 AA-010 AA-011	11 Miss. Admin. Code Pt. 2, R. 1.3.D(1)(b).	3.B.1	PM (filterable)	$E = 0.8808*(I)^{-0.1667}$
AA-004 AA-007 AA-012 AA-013 AA-015	11 Miss. Admin. Code Pt. 2, R. 1.3.D(1)(a).	3.B.2	PM (filterable)	0.6 lbs/MMBtu
AA-003 AA-007 AA-012 AA-013	11 Miss. Admin. Code Pt. 2, R. 1.4.A(1).	3.B.3	SO_2	4.8 lbs/MMBtu
AA-003 AA-005	11 Miss. Admin. Code Pt. 2, Ch. 5., as established in the PSD Permit to Construct issued April 9, 1996	3.B.4	Fuel Restriction	Sulfur content of fuel ≤ 0.15% by weight
AA-004 AA-015	40 CFR 63, Subpart ZZZZ NESHAP for Stationary Reciprocating Internal Combustion Engines 40 CFR 63.6580, 63.6585(a) and (c), and 63.6590(a)(2)(iii), and (c)(1), Subpart ZZZZ	3.B.5	HAP	Applicability
AA-004 AA-015	40 CFR 60, Subpart IIII Standards of Performance for Stationary Compression Ignition Internal Combustion Engines 40 CFR 60.4200(a)(2)(i), Subpart IIII	3.B.6	$NMHC+NO_x$ CO PM (filterable) SO_2	Applicability
	40 CFR 60.4205(b), 60.4202(a)(2), and 60.4206, Subpart IIII	3.B.7	 NO_x+NMHC CO PM (filterable)	**AA-004** / **AA-015** ≤ 4.0 g/kW-hr / ≤ 6.4 g/kW-hr ≤ 3.5 g/kW-hr / ≤ 3.5 g/kW-hr ≤ 0.20 g/kW-hr / ≤ 0.20 g/kW-hr
	40 CFR 60.4205(b), 60.4202(a)(2), Subpart IIII and 40 CFR 1039.105(b), Subpart B	3.B.8	Opacity	≤ 20 % during acceleration mode ≤ 15 % during lugging mode ≤ 50% during the peaks in either mode

Emission Point(s)	Applicable Requirement	Condition Number(s)	Pollutant/ Parameter	Limit/Standard
AA-004 AA-015	40 CFR 60.4207(b), Subpart IIII	3.B.9	SO_2 (Diesel fuel requirements)	Sulfur content of 15 ppm max **AND** Minimum cetane index of 40 **OR** maximum aromatic content of 35 volume percent
	40 CFR 60.4209(a), Subpart IIII	3.B.10	NO_x+NMHC CO PM (filterable)	Install non-resettable hour meter
	40 CFR 60.4211(a)(1)-(3) and (c), Subpart IIII	3.B.11		Certified engine requirements
	40 CFR 60.4211(f)(1)-(3), Subpart IIII	3.B.12		Operating requirements
AA-005 AA-006	40 CFR 60, Subpart GG Standards of Performance for Stationary Gas Turbines 40 CFR 60.330, Subpart GG	3.B.13	NO_x SO_2	Applicability
	40 CFR 60.332(a)(1), 60.332(b), and 60.332(f), Subpart GG	3.B.14	NO_x	STD = 0.0075(14.4/Y) + F
	40 CFR 60.333(b), Subpart GG	3.B.15	SO_2	Fuel sulfur content ≤ 0.8 % by weight
AA-005	11 Miss. Admin. Code Pt. 2, Ch. 5., as established in the PSD Permit to Construct issued April 9, 1996	3.B.16	PM/PM_{10} (filterable)	≤ 8.1 lbs/hr not to exceed 16.5 TPY (12-month rolling total)
			SO_2	≤ 1.0 ppmdv at 15% O_2 at 100 percent load not to exceed 0.98 TPY (12-month rolling total)
			NO_x	≤ 15.0 ppmdv at 15% O_2 at 100 percent load not to exceed 199.5 TPY (12-month rolling total)
				≤ 25.0 ppmdv at 15% O_2 during periods of power augmentation
			CO	≤ 25.0 ppmdv at 15% O_2 at 100 percent load not to exceed 1,587.0 TPY (12-month rolling total)
			VOC	≤ 4.0 ppmdv at 15% O_2 at 100 percent load not to exceed 12.0 TPY (12-month rolling total)
		3.B.17	Operating restriction	≤ 3,000 hours of operation in any rolling 365-day period
		3.B.4	Fuel restriction	Sulfur content ≤ 0.15% by weight

Emission Point(s)	Applicable Requirement	Condition Number(s)	Pollutant/ Parameter	Limit/Standard
AA-006	11 Miss. Admin. Code Pt. 2, Ch. 5., as established in the PSD Permit to Construct issued December 10, 2004, and modified December 17, 2009	3.B.18	CO	≤ 20.0 ppmdv at 15% O_2 not to exceed 54.0 lbs/hr (3-hour average) and 148.1 TPY (12-month rolling total)
			NO_x	≤ 9.0 ppmdv at 15% O_2 not to exceed 36.0 lbs/hr (3-hour average) and 99.0 TPY (12-month rolling total)
			PM/PM_{10} (filterable)	≤ 10.0 lbs/hr not to exceed 27.5 TPY
			Opacity	≤ 10%
		3.B.19	Startup/ Shutdown	≤ 60 minutes for either
		3.B.20	Fuel restriction	Natural gas only with sulfur content ≤ 2 gr/100 dscf
		3.B.21	Operating restriction	≤ 5,500 hours per year (365-day rolling total)
AA-007	11 Miss. Admin. Code Pt. 2, Ch. 5., as established in the PSD Permit to Construct issued December 10, 2004, and modified December 17, 2009	3.B.22	Fuel restriction	Natural gas only
AA-008 AA-009 AA-010 AA-011	40 CFR 60, Subpart KKKK Standards of Performance for Stationary Combustion Turbines 40 CFR 60.4300, 60.4305, 60.4315, and 60.4333(a), Subpart KKKK	3.B.23	NO_x SO_2	Applicability
	40 CFR 60.4320(a) and Table 1, Subpart KKKK	3.B.24	NO_x	≤ 15.0 ppmdv at 15% O_2
	40 CFR 60.4330(a)(2), Subpart KKKK	3.B.25	SO_2	Fuel sulfur emissions ≤ 0.060 lbs SO_2/MMBtu heat input
AA-008 AA-009 (Simple cycle)	11 Miss. Admin. Code Pt. 2, Ch. 5., as established in the PSD Permit to Construct issued August 17, 2010 and 11 Miss. Admin. Code Pt. 2, R. 2.15.C., as established in the Title V Operating Permit issued September 30, 2024	3.B.26	$PM/PM_{10}/PM_{2.5}$ (filterable)	≤ 10 lbs/hr (3-hour average) not to exceed 10.9 TPY (12-month rolling total – includes emissions during startup and shutdown)
			NO_x	≤ 9.0 ppmdv at 15% O_2 at 60% or greater load not to exceed 36.0 lbs/hr (3-hour average) and 43.0 TPY (12-month rolling total includes emissions during startup and shutdown)

Emission Point(s)	Applicable Requirement	Condition Number(s)	Pollutant/ Parameter	Limit/Standard
AA-008 AA-009 (Simple cycle)	11 Miss. Admin. Code Pt. 2, Ch. 5., as established in the PSD Permit to Construct issued August 17, 2010	3.B.26	CO	≤ 20.0 ppmdv at 15% O_2 at 80-100% load not to exceed 49.0 lbs/hr (3-hour average) ≤ 85.0 ppmdv at 15% O_2 at 60-79% load not to exceed 117.0 lbs/hr (3-hour average) ≤ 136.5 TPY (12-month rolling total includes emissions at all loads and during startup and shutdown)
			Opacity	≤ 10%
		3.B.27	Operating restriction	Each turbine limited to ≤ 2,000 hours of operation per year (12-month rolling total)
		3.B.28	Fuel restriction	Limited to pipeline natural gas only
AA-010 AA-011 (Combined cycle)	11 Miss. Admin. Code Pt. 2, Ch. 5., as established in the PSD Permit to Construct issued August 17, 2010 and 11 Miss. Admin. Code Pt. 2, R. 2.15.C., as established in the Title V Operating Permit issued September 30, 2024 **With Duct Firing – Case 1**	3.B.29	$PM/PM_{10}/PM_{2.5}$ (filterable)	16.8 lbs/hr (3-hour average)
			NO_x	≤ 2.0 ppmdv at 15% O_2 not to exceed 11.4 lbs/hr (3-hour average)
			CO	≤ 28.2 ppmdv at 15% O_2 not to exceed 67.0 lbs/hr (3-hour average)
			Opacity	≤ 10%
		3.B.30	Operating restrictions	Duct burner firing periods
		3.B.31		Each turbine/HRSG with duct firing limited to heat input of 1,538.8 MMBtu/hr (HHV)
	11 Miss. Admin. Code Pt. 2, Ch. 5., as established in the PSD Permit to Construct issued August 17, 2010 and 11 Miss. Admin. Code Pt. 2, R. 2.15.C., as established in the Title V Operating Permit issued September 30, 2024 **No Duct Firing – Case 2**	3.B.32	$PM/PM_{10}/PM_{2.5}$ (filterable)	16.8 lbs/hr (3-hour average)
			NO_x	≤ 2.0 ppmdv at 15% O_2 at 60% and greater load not to exceed 11.4 lbs/hr (3-hour average)
			CO	≤ 17.5 ppmdv at 15% O_2 at 100% load not to exceed 48.0 lbs/hr (3-hour average) ≤ 44.0 ppmdv at 15% O_2 at 80-99% load not to exceed 88.0 lbs/hr (3-hour average) ≤ 106.0 ppmdv at 15% at 60-79% load not to exceed 180.0 lbs/hr (3-hour average)

Emission Point(s)	Applicable Requirement	Condition Number(s)	Pollutant/ Parameter	Limit/Standard
AA-010 AA-011 (Combined cycle)	11 Miss. Admin. Code Pt. 2, Ch. 5., as established in the PSD Permit to Construct issued August 17, 2010 **No Duct Firing – Case 2**	3.B.32	Opacity	≤ 10%
		3.B.33	Operating restriction	Each turbine limited to heat input of 1,260.0 MMBtu/hr (HHV)
	11 Miss. Admin. Code Pt. 2, Ch. 5., as established in the PSD Permit to Construct issued August 17, 2010 **Limits Applicable to Both Cases**	3.B.34	$PM/PM_{10}/PM_{2.5}$ (filterable)	≤ 74.4 TPY (12-month rolling total includes emissions at all loads, while duct firing, and during startup, shutdown, and combustion tuning)
			NO_x	≤ 75.7 TPY (12-month rolling total includes emissions at all loads, while duct firing, and during startup, shutdown, and combustion tuning)
			CO	≤ 831.5 TPY (12-month rolling total includes emissions at all loads, while duct firing, and during startup, shutdown, and combustion tuning)
		3.B.35	Control requirement	All controls operational when turbines are operating in excess of 60% load
		3.B.28	Fuel restriction	Limited to pipeline natural gas only
AA-008 AA-009 AA-010 AA-011	11 Miss. Admin. Code Pt. 2, Ch. 5., as established in the PSD Permit to Construct issued August 17, 2010	3.B.36	Startup/ Shutdown	Definitions and duration for each condition in the various operating modes
		3.B.37	Operating restriction	Minimize emissions during startups and shutdowns
AA-012 AA-013	11 Miss. Admin. Code Pt. 2, Ch. 5., as established in the PSD Permit to Construct issued August 17, 2010	3.B.38	Heat Input	≤ 9.8 MMBtu/hr
			Fuel restriction	Limited to pipeline natural gas only
			Opacity	≤ 10%
AA-003 AA-005 AA-006 AA-008 **(includes AA-010)** AA-009 **(includes AA-011)**	40 CFR 72-78 Acid Rain Program Provisions 40 CFR 72.6, Subpart A	3.B.39	NO_x SO_2	Applicability

Emission Point(s)	Applicable Requirement	Condition Number(s)	Pollutant/ Parameter	Limit/Standard
AA-003 AA-005 AA-006 AA-008 **(includes AA-010)** AA-009 **(includes AA-011)**	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.40	NO_x	Applicability

3.B.1 For Emission Points AA-003, AA-005, AA-006, AA-008, AA-009, AA-010, and AA-011, the permittee shall not cause, permit, or allow the emission of ash and/or particulate matter from fossil fuel burning installations of greater than 10 million BTU per hour heat input to exceed an emission rate as determined by the relationship

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

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

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

3.B.2 For Emission Points AA-004, AA-007, AA-012, AA-013, and AA-015, 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.3 For Emission Points AA-003, AA-007, AA-012, and AA-013, the permittee shall not discharge sulfur oxides from any fuel burning installation in which the fuel is burned primarily to produce heat or power by indirect heat transfer shall not exceed 4.8 pounds (measured as sulfur dioxide) per million BTU heat input.

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

3.B.4 For Emission Points AA-003 and AA-005, the permittee shall burn natural gas only which shall not contain sulfur in excess of 0.15 percent by weight. This sulfur content value was used in the modeling to establish the emission limits for Emission Point AA-005.

(Ref.: 11 Miss. Admin. Code Pt. 2, Ch. 5., as established in the PSD Permit to Construct issued April 9, 1996)

3.B.5 Emission Points AA-004 and AA-015 are subject to and shall comply with the applicable requirements of the NESHAP for Stationary Reciprocating Internal Combustion Engines

(RICE), 40 CFR 63, Subpart ZZZZ and the applicable General Provisions, 40 CFR 63, Subpart A identified in Table 8 of Subpart ZZZZ.

For purposes of this subpart, Emission Points AA-004 and AA-015 are considered new, emergency compression ignition stationary RICE located at an area source of HAP emissions. Per 40 CFR 63.6590(c)(1), the engine shall meet the requirements of Subpart ZZZZ by meeting the applicable requirements of the Standards of Performance for Stationary Compression Ignition Internal Combustion Engines, 40 CFR 60, Subpart IIII.

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

3.B.6 Emission Points AA-004 and AA-015 are subject to and shall comply with the applicable requirements of the Standards of Performance for Stationary Compression Ignition Internal Combustion Engines, 40 CFR 60, Subpart IIII and the General Provisions, 40 CFR 60, Subpart A as specified in Table 8 of Subpart IIII

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

3.B.7 For Emission Points AA-004 and AA-015, the permittee shall operate and maintain the engines such that they achieve the emission standards listed below for the life of the engines:

AA-004

(a) NO_x+NMHC ≤ 4.0 g/KW-hr

(b) CO ≤ 3.5 g/KW-hr

(c) PM (filterable) ≤ 0.20 g/KW-hr

AA-015

(d) NO_x+NMHC ≤ 6.4 g/KW-hr

(e) CO ≤ 3.5 g/KW-hr

(f) PM (filterable) ≤ 0.20 g/KW-hr

(Ref.: 40 CFR 60.4205(b), 60.4202(a)(2), and 60.4206, Subpart IIII)

3.B.8 For Emission Points AA-004 and AA-015, the permittee shall limit opacity in accordance with the following:

(a) 20 percent during the acceleration mode;

(b) 15 percent during the lugging mode; and

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

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

3.B.9 For Emission Points AA-004 and AA-015, the permittee shall use diesel fuel that has a maximum sulfur content of 15 part per million (ppm) **AND** either a minimum cetane index of 40 **OR** a maximum aromatic content of 35 volume percent.

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

3.B.10 For Emission Points AA-004 and AA-015, the permittee shall install and maintain a non-resettable hour meter on the engines.

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

3.B.11 For Emission Points AA-004 and AA-015, the permittee shall comply with the applicable emission standards by purchasing, installing, operating, and maintaining an engine that is certified to meet the applicable emission standards. The permittee shall operate and maintain the engine in accordance with the manufacturer's emission-related written instructions and shall only change the emission-related settings that are permitted by the manufacturer.

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

3.B.12 Emission Points AA-004 and AA-015 shall be considered emergency stationary RICE under Subpart IIII provided the engines only operate in an emergency, during maintenance and testing, and during non-emergency situations for 50 hours per year as described in (c) below. If the permittee does not operate an engine in accordance with the requirements in (a)-(c) below, the engine will not be considered an emergency engine under Subpart IIII and it must then meet all applicable requirements for non-emergency engines.

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

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

(c) The 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)(1), (2)(i), and (3), Subpart IIII)

3.B.13 Emission Points AA-005 and AA-006 are subject to and shall comply with all applicable requirements of the Standards of Performance for Stationary Gas Turbines, 40 CFR 60, Subpart GG.

(Ref.: 40 CFR 60.330, Subpart GG)

3.B.14 For Emission Points AA-005 and AA-006, the permittee shall not cause to be discharged into the atmosphere from any stationary gas turbine, any gases which contain nitrogen oxides in excess of

$$STD = 0.0075\frac{(14.4)}{Y} + F$$

Where STD is the allowable ISO corrected (if required as given in 40 CFR 60.335(b)(1)) NO_x emission concentration (percent by volume at 15 percent oxygen and on a dry basis); Y is the manufacturer's rated heat rate at manufacturer's rated load (kilojoules per watt hour) or, actual measured heat rate based on lower heating value of fuel as measured at actual peak load for the facility. The value of Y shall not exceed 14.4 kilojoules per watt hour; and F is the NO_x emission allowance for fuel-bound nitrogen as defined in 40 CFR 60.332(a)(4).

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

3.B.15 For Emission Points AA-005 and AA-006, the permittee shall not burn any fuel which contains total sulfur in excess of 0.8 percent by weight.

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

3.B.16 For Emission Point AA-005, the permittee shall meet the short-term emission limits identified below when firing natural gas except during periods of startup, shutdown or combustion tuning. The permittee shall include emissions that occur during periods of startup, shutdown, and combustion tuning when complying with the annual ton/year emission limits. The turbine manufacturer requires a tuning process after a combustion inspection of the turbine, which typically occurs on an annual basis. The tuning process includes a startup, heat soak (3-hour warm up period), along with turbine adjustment, tuning, and calibration. The process takes approximately six (6) hours and is required to ensure the safe, reliable steady-state operation of the turbine and to minimize NO_x and CO emissions. The turbine is also limited to 100 hours of operation per year during periods of power augmentation.

(a) PM/PM_{10} (filterable) $\leq$ 8.1 lbs/hr not to exceed 16.5 TPY (12-month rolling total);

(b) $SO_2 \leq 1.0$ parts per million dry volume (ppmdv) at 15% O_2 at 100 percent load not to exceed 0.98 TPY (12-month rolling total);

(c) $NO_x \leq 15.0$ ppmdv at 15% O_2 at 100 percent load not to exceed 199.5 TPY (12-month rolling total) and $\leq$ 25.0 ppmdv at 15% O_2 during periods of power augmentation;

(d) CO $\leq$ 25.0 ppmdv at 15% O_2 at 100 percent load not to exceed 1,587.0 TPY (12-month rolling total); and

(e) VOC $\leq$ 4.0 ppmdv at 15% O_2 at 100 percent load not to exceed 12.0 TPY (12-month rolling total).

(Ref.: 11 Miss. Admin. Code Pt. 2, Ch. 5., as established in the PSD Permit to Construct issued April 9, 1996)

3.B.17 For Emission Point AA-005, the permittee shall not operate the turbine in excess of 3,000 hours during any 365-day period.

(Ref.: 11 Miss. Admin. Code Pt. 2, Ch. 5., as established in the PSD Permit to Construct issued April 9, 1996)

3.B.18 For Emission Point AA-006, the permittee shall meet the following emission limits:

(a) CO $\leq$ 20.0 ppmdv at 15% O_2 not to exceed 54.0 lbs/hr (short term limits based on 3-hour average) and 148.1 TPY (12-month rolling total);

(b) $NO_x \leq 9.0$ ppmdv at 15% O_2 not to exceed 36.0 lbs/hr (short term limits based on 3-hour average) and 99.0 TPY (12-month rolling total);

(c) PM/PM_{10} (filterable) $\leq$ 10.0 lbs/hr not to exceed 27.5 TPY (12-month rolling total); and

(d) Opacity $\leq$ 10%.

(Ref.: 11 Miss. Admin. Code Pt. 2, Ch. 5., as established in the PSD Permit to Construct issued December 10, 2004, and modified December 17, 2009)

3.B.19 For Emission Point AA-006, the permittee shall comply with the short-term emission limits (i.e., ppmdv and lb/hr) at all times except during periods of startup, shutdown, and combustion tuning. The permittee shall include emissions from startups, shutdowns, and combustion tuning when demonstrating compliance with the long-term emission limits (i.e., TPY).

For purposes of this permit, turbine startup is defined as that period of time from initiation of combustion firing until the unit reaches 75% load. Turbine shutdown is defined as the period of time from 75% load to flame-out. Each individual startup and shutdown is limited to 60 minutes or less per occurrence.

The permittee shall operate the combustion turbines in a manner consistent with good air pollution control practices to minimize emissions during startups and shutdowns. This operation shall occur in accordance with the manufacturer's written instructions or other written instructions developed and maintained by the permittee onsite which shall include review of the operating parameters of the unit during startups and shutdowns as necessary to make adjustments to reduce or eliminate excess emissions.

(Ref.: 11 Miss. Admin. Code Pt. 2, Ch. 5., as established in the PSD Permit to Construct issued December 10, 2004, and modified December 17, 2009)

3.B.20 For Emission Point AA-006, the permittee shall not use any fuel other than natural gas. The natural gas shall not contain sulfur in excess of 2 grains (gr) per 100 dry standard cubic feet (dscf).

(Ref.: 11 Miss. Admin. Code Pt. 2, Ch. 5., as established in the PSD Permit to Construct issued December 10, 2004, and modified December 17, 2009)

3.B.21 For Emission Point AA-006, the permittee shall be limited to operating the turbine for no more than 5,500 hours per year on a 365-day rolling total. The total hours of operation shall include all time spent in startups and shutdowns.

(Ref.: 11 Miss. Admin. Code Pt. 2, Ch. 5., as established in the PSD Permit to Construct issued December 10, 2004, and modified December 17, 2009)

3.B.22 For Emission Point AA-007, the permittee shall not use any fuel other than natural gas.

(Ref.: 11 Miss. Admin. Code Pt. 2, Ch. 5., as established in the PSD Permit to Construct issued December 10, 2004, and modified December 17, 2009)

3.B.23 Emission Points AA-008, AA-009, AA-010, and AA-011 are subject to and shall comply with all applicable requirements of the Standards of Performance for Stationary Combustion Turbines, 40 CFR 60, Subpart KKKK. The permittee shall operate and maintain each combustion turbine, 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 60.4300, 60.4305, 60.4315, and 60.4333(a), Subpart KKKK)

3.B.24 For Emission Points AA-008, AA-009, AA-010, and AA-011, the permittee shall comply with the NO_x emission standard of 15 ppmdv at 15 percent O_2.

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

3.B.25 For Emission Points AA-008, AA-009, AA-010, and AA-011, the permittee shall not combust any fuel which contains total potential sulfur emissions in excess of 0.060 lbs

SO_2/MMBtu heat input.

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

3.B.26 For Emission Points AA-008 and AA-009 (**simple cycle combustion turbines**), the permittee shall meet the following emission limits. The permittee shall comply with the short-term emission limits (i.e., ppmdv and lbs/hr) except during periods of startup, shutdown, and combustion tuning. Emissions from startups, shutdowns, and combustion tuning shall be included when demonstrating compliance with the long-term emission limits (i.e., TPY). The long-term limits are determined on a 12-month rolling total.

(a) $PM/PM_{10}/PM_{2.5}$ (filterable) ≤ 10 lbs/hr (3-hour average) not to exceed 10.9 TPY (12-month rolling total);

(b) NO_x ≤ 9.0 ppmdv at 15% O_2 at 60% or greater load not to exceed 36.0 lbs/hr (3-hour average) and 43.0 TPY (12-month rolling total);

(c) CO ≤ 20.0 ppmdv at 15% O_2 at 80-100% load not to exceed 49.0 lbs/hr (3-hour average); ≤ 85.0 ppmdv at 15% O_2 at 60-79% load not to exceed 117.0 lbs/hr (3-hour average); and ≤ 136.5 TPY (12-month rolling total) (includes emissions at all loads); and

(d) Opacity ≤ 10%.

(Ref.: 11 Miss. Admin. Code Pt. 2, Ch. 5., as established in the PSD Permit to Construct issued August 17, 2010 and 11 Miss. Admin. Code Pt. 2, R. 2.15.C., as established in the Title V Operating Permit issued September 30, 2024)

3.B.27 For Emission Points AA-008 and AA-009, the permittee shall be limited to operating each combustion turbine for no more than 2,000 hours per year determined on a 12-month rolling total basis.

(Ref.: 11 Miss. Admin. Code Pt. 2, Ch. 5., as established in the PSD Permit to Construct issued August 17, 2010)

3.B.28 For Emission Points AA-008, AA-009, AA-010, and AA-011, the permittee shall not use any fuel other than pipeline natural gas.

(Ref.: 11 Miss. Admin. Code Pt. 2, Ch. 5., as established in the PSD Permit to Construct issued August 17, 2010)

3.B.29 For Emission Points AA-010 and AA-011 (**combined cycle combustion turbines with duct firing – Case 1**), the permittee shall meet the following emission limits. The permittee shall comply with the short-term emission limits (i.e., ppmdv and lbs/hr) except during periods of startup, shutdown, and combustion tuning. Emissions from startups, shutdowns, and combustion tuning shall be included when demonstrating compliance with the long-

term emission limits (i.e., TPY).

(a) $PM/PM_{10}/PM_{2.5}$ (filterable) ≤ 16.8 lbs/hr (3-hour average);

(b) NO_x ≤ 2.0 ppmdv at 15% O_2 not to exceed 11.4 lbs/hr (3-hour average);

(c) CO ≤ 28.2 ppmdv at 15% O_2 not to exceed 67.0 lbs/hr (3-hour average); and

(d) Opacity ≤ 10%.

(Ref.: 11 Miss. Admin. Code Pt. 2, Ch. 5., as established in the PSD Permit to Construct issued August 17, 2010)

3.B.30 For Emission Points AA-010 and AA-011 (**combined cycle combustion turbines with duct firing – Case 1**), the permittee shall only fire the duct burners during periods of maximum capable combustion turbine outputs.

(Ref.: 11 Miss. Admin. Code Pt. 2, Ch. 5., as established in the PSD Permit to Construct issued August 17, 2010)

3.B.31 For Emission Points AA-010 and AA-011 (**combined cycle combustion turbines with duct firing – Case 1**), the permittee shall be limited to a maximum heat input of 1,538.8 MMBtu/hr (High Heating Value (HHV)).

(Ref.: 11 Miss. Admin. Code Pt. 2, Ch. 5., as established in the PSD Permit to Construct issued August 17, 2010)

3.B.32 For Emission Points AA-010 and AA-011 (**combined cycle combustion turbines without duct firing – Case 2**), the permittee shall meet the following emission limits. The permittee shall comply with the short-term emission limits (i.e., ppmdv and lbs/hr) except during periods of startup, shutdown, and combustion tuning. Emissions from startups, shutdowns, and combustion tuning shall be included when demonstrating compliance with the long-term emission limits (i.e., TPY).

(a) $PM/PM_{10}/PM_{2.5}$ (filterable) ≤ 16.8 lbs/hr (3-hour average);

(b) NO_x ≤ 2.0 ppmdv at 15% O_2 at 60% and greater not to exceed 11.4 lbs/hr (3-hour average);

(c) CO ≤ 17.5 ppmdv at 15% O_2 at 100% load not to exceed 48.0 lbs/hr (3-hour average); ≤ 44.0 ppmdv at 15% O_2 at 80-99% load not to exceed 88.0 lbs/hr (3-hour average); and ≤ 106.0 ppmdv at 15% O_2 at 60-79% load not to exceed 180.0 lbs/hr (3-hour average); and

(d) Opacity ≤ 10%.

(Ref.: 11 Miss. Admin. Code Pt. 2, Ch. 5., as established in the PSD Permit to Construct issued August 17, 2010 and 11 Miss. Admin. Code Pt. 2, R. 2.15.C., as established in the

Title V Operating Permit issued September 30, 2024)

3.B.33 For Emission Points AA-010 and AA-011 (**combined cycle combustion turbines without duct firing – Case 2**) the permittee shall be limited to 1,260 MMBtu/hr heat input (HHV).

(Ref.: 11 Miss. Admin. Code Pt. 2, Ch. 5., as established in the PSD Permit to Construct issued August 17, 2010)

3.B.34 For Emission Points AA-010 and AA-011, (**Limits Applicable to Both Cases**), the permittee shall comply with the following emission limits on a 12-month rolling total and shall include emissions while operating the combustion turbines at all loads, whether duct firing or not, and from all startups, shutdowns, and combustion tuning events.

(a) $PM/PM_{10}/PM_{2.5}$ (filterable) ≤ 74.4 TPY;

(b) NO_x ≤ 75.7 TPY; and

(c) CO ≤ 831.5 TPY.

(Ref.: 11 Miss. Admin. Code Pt. 2, Ch. 5., as established in the PSD Permit to Construct issued August 17, 2010)

3.B.35 For Emission Points AA-010 and AA-011, (**Limits Applicable to Both Cases**), the permittee shall install and operate low NO_x burners and Selective Catalytic Reduction (SCR) to control NO_x emissions. These controls shall be operated at all times when the combustion turbines are operating at or above 60% load.

(Ref.: 11 Miss. Admin. Code Pt. 2, Ch. 5., as established in the PSD Permit to Construct issued August 17, 2010)

3.B.36 For Emission Points AA-008, AA-009, AA-010 and AA-011, the permittee shall not operate the combustion turbines in simple or combined cycle mode below 60% load, except during periods of startup and shutdown. For either mode of operation, startup and shutdown shall be limited and defined as:

(a) Each combustion turbine shall be limited to 365 startups and shutdowns in one year.

(b) Startup is the period of time from initiation of firing (0 percent load) until the unit reaches 60% load and shall end when 60% load is achieved. Shutdown is the period of time from below 60% load until cessation of firing (0 percent load).

(c) The total startup time shall be limited to 60 minutes per startup for simple cycle operation and 240 minutes per startup for combined cycle operation.

(d) The total shutdown time for either mode of operation shall be limited to 60 minutes per shutdown.

(Ref.: 11 Miss. Admin. Code Pt. 2, Ch. 5., as established in the PSD Permit to Construct issued August 17, 2010)

3.B.37 For Emission Points AA-008, AA-009, AA-010 and AA-011, the combustion turbines and duct burners shall be operated in a manner consistent with good air pollution control practices to minimize emissions during startups, shutdowns, and combustion tunings which shall include:

(a) Operate in accordance with the manufacturer's written instructions or other written instructions developed and maintained by the permittee, which shall include at a minimum the following measures:

(1) Review of operating parameters of the unit during startups, shutdowns, or combustion tunings as necessary to make adjustments to reduce or eliminate excess emissions;

(2) Operation of the SCR system while operating in combined cycle mode as soon as and as long as the unit operating conditions are amenable to its effective use.

(b) Maintenance of the SCR systems while operating in combined cycle mode shall be conducted in accordance with written procedures developed and maintained by the permittee. These procedures shall be reviewed at least annually.

(Ref.: 11 Miss. Admin. Code Pt. 2, Ch. 5., as established in the PSD Permit to Construct issued August 17, 2010)

3.B.38 For Emission Points AA-012 and AA-013, the permittee shall comply with the following:

(a) Each preheater shall be limited to ≤ 9.8 MMBtu/hr heat input;

(b) Each preheater shall be equipped with low NOx burners, will be operated using good combustion practices, and shall only fire pipeline natural gas; and

(c) Opacity shall be ≤ 10%.

(Ref.: 11 Miss. Admin. Code Pt. 2, Ch. 5., as established in the PSD Permit to Construct issued August 17, 2010)

3.B.39 Emission Points AA-003, AA-005, AA-006, AA-008 (including AA-010), and AA-009 (including AA-011), are subject to and shall comply with all applicable requirements of the Acid Rain Program Regulations as specified in 40 CFR 72-78. The permittee shall comply with the applicable requirements of said standards as included in Section 8.0 of this permit and as specified in the Acid Rain Permit in Appendix C.

(Ref.: 40 CFR 72.6, Subpart A)

3.B.40 Emission Points AA-003, AA-005, AA-006, AA-008 (including AA-010), and AA-009 (including AA-011), are 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)

C. Insignificant and Trivial Activity Emission Limitations & Standards

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

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

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

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

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

SECTION 4. COMPLIANCE SCHEDULE

4.1 Unless otherwise specified herein, the permittee shall be in compliance with all requirements contained herein upon issuance of this permit.

4.2 Except as otherwise specified herein, the permittee shall submit to the Permit Board and to the Administrator of EPA Region IV a certification of compliance with permit terms and conditions, including emission limitations, standards, or work practices, by January 31 for the preceding calendar year. If the permit was reissued or modified during the course of the preceding calendar year, the compliance certification shall address each version of the permit. Each compliance certification shall include the following:

(a) the identification of each term or condition of the permit that is the basis of the certification;

(b) the compliance status;

(c) whether compliance was continuous or intermittent;

(d) the method(s) used for determining the compliance status of the source, currently and over the applicable reporting period;

(e) such other facts as may be specified as pertinent in specific conditions elsewhere in this permit.

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

SECTION 5. MONITORING, RECORDKEEPING & REPORTING REQUIREMENTS

A. General Monitoring, Recordkeeping and Reporting Requirements

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

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

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

(a) the date, place as defined in the permit, and time of sampling or measurements;

(b) the date(s) analyses were performed;

(c) the company or entity that performed the analyses;

(d) the analytical techniques or methods used;

(e) the results of such analyses; and

(f) the operating conditions existing at the time of sampling or measurement.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

B. Specific Monitoring and Recordkeeping Requirements

Emission Point(s)	Applicable Requirement	Condition Number	Pollutant/ Parameter Monitored	Monitoring/Recordkeeping Requirement
AA-003 AA-005 AA-006 AA-007	11 Miss. Admin. Code Pt. 2, R. 6.3.A(3).	5.B.1	Fuel Usage	Monitoring and recordkeeping requirements
AA-004 AA-015	40 CFR 60.4209(a) and 60.4214(b), Subpart IIII	5.B.2	HAP	Install non-resettable hour meter and record hours of operation
AA-005	40 CFR 60.334(c), Subpart GG	5.B.3	NO_x	Continuous emission monitoring system
	40 CFR 60.334(h)(3)(i), Subpart GG	5.B.4	SO_2	Fuel monitoring
	11 Miss. Admin. Code Pt. 2, Ch. 5., as established in the PSD Permit to issued April 9, 1996	5.B.5	Hours of operation	Monitor and maintain daily records documenting hours of operation
		5.B.6	CO VOC PM	Performance testing once every five years
AA-006	40 CFR 60.334(e), Subpart GG	5.B.3	NO_x	Continuous emission monitoring system
	40 CFR 60.334(h)(3)(i), Subpart GG	5.B.4	SO_2	Fuel monitoring
	11 Miss. Admin. Code Pt. 2, R. 6.3.A(3).	5.B.7	NO_x	Continuous emission monitoring system
	11 Miss. Admin. Code Pt. 2, Ch. 5., as established in the PSD Permit to Construct issued December 10, 2004, and modified December 17, 2009	5.B.8	NO_x O_2	Continuous emission monitoring system
	11 Miss. Admin. Code Pt. 2, R. 6.3.A(3).	5.B.9		Calculate and record tons/year NO_x emissions on a 365-day rolling total basis
	11 Miss. Admin. Code Pt. 2, Ch. 5., as established in the PSD Permit to Construct issued December 10, 2004, and modified December 17, 2009, and modified per 11 Miss. Admin. Code Pt. 2, R. 2.2.B(10)., as established in the Title V Operating Permit issued September 30, 2024.	5.B.10	SO_2	Fuel sulfur monitoring
		5.B.11	CO	Biennial performance testing
		5.B.12	Hours of operation	Monitor and record the hours of operation on a daily basis
		5.B.13	Startup / Shutdown	Monitor and record number and duration on a 365-day rolling total basis
		5.B.14	CO	Calculate tons/year CO emissions

Emission Point(s)	Applicable Requirement	Condition Number	Pollutant/ Parameter Monitored	Monitoring/Recordkeeping Requirement
AA-008 AA-009 AA-010 AA-011	11 Miss. Admin. Code Pt. 2, Ch. 5., as established in the PSD Permit to Construct issued August 17, 2010	5.B.15	CO	Biennial performance testing
		5.B.16		Implement and maintain the CO Monitoring Plan
		5.B.17	NO_x	Annual performance testing
	11 Miss. Admin. Code Pt. 2, Ch. 5., as established in the PSD Permit to Construct issued August 17, 2010, and 40 CFR 60.4340, 60.4345, and 60.4350, Subpart KKKK	5.B.18	NO_x	Continuous emission monitoring system
	11 Miss. Admin. Code Pt. 2, Ch. 5., as established in the PSD Permit to Construct issued August 17, 2010, and 11 Miss. Admin. Code Pt. 2, R. 6.3.A(1).	5.B.19	$PM/PM_{10}/PM_{2.5}$ (filterable)	Performance testing once every five years
		5.B.20	Startup / Shutdown	Monitor and record number and duration of each period
	11 Miss. Admin. Code Pt. 2, Ch. 5., as established in the PSD Permit to Construct issued August 17, 2010, and 40 CFR 60.4360 and 60.4365, Subpart KKKK	5.B.21	Sulfur content	Determine sulfur content in fuel
	11 Miss. Admin. Code Pt. 2, Ch. 5., as established in the PSD Permit to Construct issued August 17, 2010	5.B.22	Hours of operation	Monitor and record hours of operation in each operational mode
		5.B.23	Fuel usage	Maintain fuel records onsite
AA-012 AA-013	11 Miss. Admin. Code Pt. 2, Ch. 5., as established in the PSD Permit to Construct issued August 17, 2010	5.B.24	Fuel usage	Maintain fuel records onsite
AA-005 AA-006 AA-008 AA-009 AA-010 AA-011	11 Miss. Admin. Code Pt. 2, R. 6.3.A(3).	5.B.25	NO_x	Emission monitoring
AA-003 AA-005 AA-006 AA-008 AA-009 AA-010 AA-011	40 CFR 75.57(a), Subpart F	5.B.26	NO_x SO_2	Emission monitoring and recordkeeping

5.B.1 For Emission Points AA-003, AA-005, AA-006, and AA-007, the permittee shall keep records of all fuels combusted. These records shall consist of fuel type, quantity, the sulfur content (% by weight), and the heating value (Btu/gal or Btu/ft^3).

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

5.B.2 For Emission Points AA-004 and AA-015, the permittee shall keep records of the operation of the engine in emergency and non-emergency service that are recorded through the non-resettable hour meter. The owner shall record the time of operation of the engine and the reason the engine was in operation during that time.

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

5.B.3 For Emission Points AA-005 and AA-006, the permittee shall install and operate a NO_x continuous emission monitoring system (CEMS) in accordance with the EPA approved Alternative NO_x Excess Emission Monitoring Proposal which will satisfy the requirements of 40 CFR 60.334(a). To meet the requirements of this alternative monitoring plan, the permittee must:

(a) Ensure that the turbine meets the emission limitation (STD) determined according to the equation in Section 3 of this permit. The Y value for the equation and supporting documentation should be provided by the permittee and the limitation for NO_x emissions from pipeline quality natural gas should be fixed by EPA assuming the F value is zero.

(b) Maintain, operate, and assure the quality of the system.

(c) Ensure that the CEMS is capable of calculating NO_x emissions concentrations corrected to 15% O_2. The permittee shall ensure that the algorithm used by the Mark V control system on the GE Combustion Turbine satisfies the requirement for having to correct the NO_x concentration to ISO conditions.

(d) The monitor data availability shall be no less than 95% per calendar quarter.

(e) The CEMS should provide at least four (4) data points for each hour and calculate a 1-hour average.

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

5.B.4 For Emission Points AA-005 and AA-006, the permittee shall demonstrate the gaseous fuel combusted in the turbines meets the definition of natural gas found in 40 CFR 60.331(u) by maintaining documentation of the gas quality characteristics in a current, valid purchase contract, tariff sheet, or transportation contract for gaseous fuel, specifying that the maximum total sulfur content of the fuel is 20.0 grains/100 scf or less.

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

5.B.5 For Emission Point AA-005, the permittee shall maintain daily records documenting hours of operation of the unit. These records shall be kept on a rolling 365-day period to ensure the unit does not exceed the annual hours of operation limit.

(Ref.: 11 Miss. Admin. Code Pt. 2, Ch. 5., as established in the PSD Permit to issued April 9, 1996)

5.B.6 For Emission Point AA-005, the permittee shall demonstrate compliance with the VOC limits in Section 3 using EPA Methods 18 and 25, PM emission limits using Methods 1-5, and CO emission limits using Method 10 by performance testing once every five years (not to exceed 61 months from the previous test). Performance testing shall not be done within 18 months of a prior stack test for the same pollutant. Performance testing shall be performed under normal operating conditions and while operating at or near capacity, defined as within 5% of the maximum rated capacity (100% load). The permittee shall use the test methods identified above or an EPA approved equivalent.

(Ref.: 11 Miss. Admin. Code Pt. 2, Ch. 5., as established in the PSD Permit to issued April 9, 1996)

5.B.7 For Emission Point AA-006, the permittee shall demonstrate compliance with NO_x emission limitations using a continuous emission monitoring system (CEMS). Demonstrating compliance with CEMS data in lieu of EPA Reference Methods is an acceptable practice provided that the permittee meets the guidelines in EPA's general guidance on "Alternative Testing and Monitoring Procedures for Combustion Turbines Regulated under New Source Performance Standards". This includes the use of reference method test data collected during the Relative Accuracy Test Audits (RATA) required under 40 CFR 75.

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

5.B.8 For Emission Point AA-006, the permittee shall install, calibrate, maintain, and operate CEMS for NO_x (as specified in 40 CFR 60.334, Appendix B of 40 CFR 60, and 40 CFR 75), and O_2 (as specified in Appendix B of 40 CFR 60 and 40 CFR 75). These monitoring systems must comply with all applicable requirements specified in 40 CFR 60.334, 60.13, Appendix B of 40 CFR 60, and 40 CFR 75. In addition, the permittee must comply with the reporting and recordkeeping requirements specified in 40 CFR 60.7 and 40 CFR 75.

(Ref.: 11 Miss. Admin. Code Pt. 2, Ch. 5., as established in the PSD Permit to Construct issued December 10, 2004, and modified December 17, 2009)

5.B.9 For Emission Point AA-006, the NO_x and O_2 CEMS shall also be capable of and certified to accurately read/measure NO_x concentrations to comply with the tons/year limit. The permittee shall continue to use the approved data substitution protocol in the Data

Acquisition Handling System (DAHS) to calculate the tons/year emissions of NO_x in the event there is a malfunction. Data obtained from this system will be used to calculate the tons/year of NO_x on a 365-day rolling total basis.

(Ref.: 11 Miss. Admin. Code Pt. 2, Ch. 5., as established in the PSD Permit to Construct issued December 10, 2004, and modified December 17, 2009)

5.B.10 For Emission Point AA-006, the permittee shall demonstrate compliance with the sulfur fuel limitation in accordance with Condition 5.B.4.

(Ref.: 11 Miss. Admin. Code Pt. 2, Ch. 5., as established in the PSD Permit to Construct issued December 10, 2004, and modified December 17, 2009, and modified per 11 Miss. Admin. Code Pt. 2, R. 2.2.B(10)., as established in the Title V Operating Permit issued September 30, 2024)

5.B.11 For Emission Point AA-006, the permittee shall demonstrate compliance with CO emission limitations by performance 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, Ch. 5., as established in the PSD Permit to Construct issued December 10, 2004, and modified December 17, 2009)

5.B.12 For Emission Point AA-006, the permittee shall monitor and record the hours of operation on a daily basis.

(Ref.: 11 Miss. Admin. Code Pt. 2, Ch. 5., as established in the PSD Permit to Construct issued December 10, 2004, and modified December 17, 2009)

5.B.13 For Emission Point AA-006, the permittee shall record the number and duration of startups and shutdowns based on a rolling 365-day total. These records shall include information such as the time, date, and duration of each startup and shutdown and confirmation that good air pollution control practices were followed.

(Ref.: 11 Miss. Admin. Code Pt. 2, Ch. 5., as established in the PSD Permit to Construct issued December 10, 2004, and modified December 17, 2009)

5.B.14 For Emission Point AA-006, the permittee shall use the following formula to demonstrate compliance with the tons/year CO emission limit:

{[135.3 lbs/hr x hours of operation in startup mode (in a 365-day rolling total)] + [156.3 lbs/hr x hours of operation in shutdown mode (in a 365-day rolling total)] + [54.0 lbs/hr x hours in normal operation (in a 365-day rolling total)]}/2000 lbs/ton

(Ref.: 11 Miss. Admin. Code Pt. 2, Ch. 5., as established in the PSD Permit to Construct issued December 10, 2004, and modified December 17, 2009)

5.B.15 For Emission Points AA-008, AA-009, AA-010, and AA-011, the permittee shall demonstrate compliance with the CO emission limits by performance testing biennially (not to exceed 25 months from the previous test) using EPA Reference Method 10 from 40 CFR 60, Appendix A or an EPA approved equivalent and in accordance with the following:

AA-008 and AA-009 (simple cycle operation)

(a) 60% load;

(b) 80% load;

(c) 100% load; and

(d) Startup and shutdown (used to verify lbs/startup and lbs/shutdown).

AA-010 and AA-011 (combined cycle operation)

(e) 100% load with duct firing;

(f) 100% load without duct firing;

(g) 60-79% load without duct firing;

(h) 80-99% load without duct firing; and

(i) startup and shutdown (used to verify lbs/startup and lbs/shutdown).

(Ref.: 11 Miss. Admin. Code Pt. 2, Ch. 5., as established in the PSD Permit to Construct issued August 17, 2010)

5.B.16 For Emission Points AA-008, AA-009, AA-010, and AA-011, the permittee shall continue to implement and maintain the MDEQ approved CO Monitoring Plan that describes the work practices, parameters monitored, and the compliance techniques that will be employed to ensure that good combustion practices are maintained.

(Ref.: 11 Miss. Admin. Code Pt. 2, Ch. 5., as established in the PSD Permit to Construct issued August 17, 2010)

5.B.17 For Emission Points AA-008, AA-009, AA-010, and AA-011, the permittee shall demonstrate compliance with the NO_x emission limits at 60% and 100% load by performance testing annually (not to exceed 13 months from the previous test) using EPA Reference Method 20 from 40 CFR 60, Appendix A or an EPA approved equivalent. The permittee is not required to conduct the multi-load testing provided the permittee continues to monitor emissions using a CEMS and conducts the RATA testing on the frequency required under the Acid Rain Program.

(Ref.: 11 Miss. Admin. Code Pt. 2, Ch. 5., as established in the PSD Permit to Construct issued August 17, 2010)

5.B.18 For Emission Points AA-008, AA-009, AA-010, and AA-011, the permittee shall demonstrate continuous compliance with the NO_x emission limitations using a CEMS in accordance with 40 CFR 60.4345 and 40 CFR 75. Demonstrating compliance with NO_x

limits using CEMS data in lieu of EPA Reference Methods is an acceptable practice provided the permittee meets the guidelines established in EPA's general guidance on "Alternative Testing and Monitoring Procedures for Combustion Turbines Regulated under New Source Performance Standards." This includes use of reference method test data collected during the RATA required under 40 CFR 75.

(Ref.: 11 Miss. Admin. Code Pt. 2, Ch. 5., as established in the PSD Permit to Construct issued August 17, 2010, and 40 CFR 60.4340, 60.4345, and 60.4350, Subpart KKKK)

5.B.19 For Emission Points AA-008, AA-009, AA-010, and AA-011, the permittee shall demonstrate compliance with the $PM/PM_{10}/PM_{2.5}$ (filterable) emission limits once every five (5) years (not to exceed 61 months from the previous test) by performance testing using EPA Reference Methods 1-5 or 17 from 40 CFR 60, Appendix A or an EPA approved equivalent. Subsequent tests shall not be conducted within 18 months of the previous test.

(Ref.: 11 Miss. Admin. Code Pt. 2, Ch. 5., as established in the PSD Permit to Construct issued August 17, 2010, and 11 Miss. Admin. Code Pt. 2, R. 6.3.A(1).)

5.B.20 For Emission Points AA-008, AA-009, AA-010, and AA-011, the permittee shall keep records documenting the time (duration) that the combustion units, duct burners, and SCR systems engage in periods of startup, shutdown, and combustion tuning and confirmation that good air pollution practices were being followed while operating during these periods.

(Ref.: 11 Miss. Admin. Code Pt. 2, Ch. 5., as established in the PSD Permit to Construct issued August 17, 2010, and 11 Miss. Admin. Code Pt. 2, R. 6.3.A(1).)

5.B.21 For Emission Points AA-008, AA-009, AA-010, and AA-011, the permittee shall determine the total sulfur content in the combustion fuel in accordance with 40 CFR 60.4360 or 60.4365 of Subpart KKKK. At a minimum, the amount of fuel sampling data specified in Section 2.3.1.4 or 2.3.2.4 of 40 CFR 75, Appendix D is required.

(Ref.: 11 Miss. Admin. Code Pt. 2, Ch. 5., as established in the PSD Permit to Construct issued August 17, 2010, and 40 CFR 60.4360 and 60.4365, Subpart KKKK)

5.B.22 For Emission Points AA-008, AA-009, AA-010, and AA-011, the permittee shall record the hours of operation during simple cycle mode, combined cycle mode with duct firing, and combined cycle mode without duct firing. In addition to these records, the permittee shall also record how much time is spent in the various operating loads.

(Ref.: 11 Miss. Admin. Code Pt. 2, Ch. 5., as established in the PSD Permit to Construct issued August 17, 2010)

5.B.23 For Emission Points AA-008, AA-009, AA-010, and AA-011, the permittee shall keep records onsite documenting that each combustion turbine and duct burner combusts

pipeline natural gas only. These records shall include the heat input, heating value, and quantity of natural gas (ft^3) combusted on a monthly basis.

(Ref.: 11 Miss. Admin. Code Pt. 2, Ch. 5., as established in the PSD Permit to Construct issued August 17, 2010)

5.B.24 For Emission Points AA-012 and AA-013, the permittee shall keep records onsite certifying that each pre-heater combusts only pipeline natural gas.

(Ref.: 11 Miss. Admin. Code Pt. 2, Ch. 5., as established in the PSD Permit to Construct issued August 17, 2010)

5.B.25 For Emission Points AA-005, AA-006, AA-008, AA-009, AA-010, and AA-011, the permittee shall use CEMS data to demonstrate compliance with the applicable NO_x ppm, lbs/hr and TPY limits, as applicable. For Emission Point AA-005, compliance with the ppm and lbs/hr limits shall be determined on a one-hour average; for Emission Point AA-006, compliance with the ppm and lbs/hr limits shall be determined on a three-hour rolling average basis with average emissions determined hourly; and for Emission Points AA-008 through AA-011, compliance with the ppm and lbs/hr limits shall be determined on a three-hour average. The permittee shall demonstrate compliance with the TPY limits monthly, based on a rolling 12-month total.

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

5.B.26 For Emission Points AA-003, AA-005, AA-006, AA-008, AA-009, AA-010, and AA-011, the permittee shall monitor and keep records of emissions in accordance with 40 CFR 75. The permittee shall maintain a file onsite of all measurements, data, reports, and other information required in 40 CFR 75.57 for each affected unit for a period of three (3) years.

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

C. Specific Reporting Requirements

Emission Point(s)	Applicable Requirement	Condition Number	Pollutant/ Parameter Monitored	Reporting Requirement
AA-003 AA-005 AA-006 AA-007	11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)(c)(1).	5.C.1	Fuel usage	Semi-annual report
AA-004 AA-015	11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)(c)(1).	5.C.2	Hours of operation	Annual report summarizing hours of operation during the calendar year
AA-005	40 CFR 60.334(j)(1), Subpart GG	5.C.3	NO_x	Semi-annual report

Emission Point(s)	Applicable Requirement	Condition Number	Pollutant/ Parameter Monitored	Reporting Requirement
AA-006	40 CFR 60.334(j)(2), Subpart GG and 11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)(c)(1).	5.C.4	SO_2	
	11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)(c)(1). and 11 Miss. Admin. Code Pt. 2, Ch. 5., as established in the PSD Permit to Construct issued December 10, 2004, and modified December 17, 2009	5.C.5	PM CO VOC	Performance test notifications and test results
		5.C.6	NO_x	Semi-annual emissions report
AA-005	11 Miss. Admin. Code Pt. 2, Ch. 5., as established in the PSD Permit to issued April 9, 1996	5.C.7	Hours of operation	Semi-annual report
AA-006	11 Miss. Admin. Code Pt. 2, Ch. 5., as established in the PSD Permit to Construct issued December 10, 2004, and modified December 17, 2009	5.C.8	CO	Semi-annual emissions report
		5.C.9	Hours of operation	Semi-annual report
AA-008 AA-009 AA-010 AA-011	11 Miss. Admin. Code Pt. 2, Ch. 5., as established in the PSD Permit to Construct issued August 17, 2010	5.C.5	$PM/PM_{10}/PM_{2.5}$ NO_x CO	Performance test notifications and test results
		5.C.6	NO_x	Semi-annual emissions report
		5.C.10	Operating modes	Semi-annual report
		5.C.11	Hours of operation	
	40 CFR 60.4375 and 60.4395, Subpart KKKK and 11 Miss. Admin. Code Pt. 2, Ch. 5., as established in the PSD Permit to Construct issued August 17, 2010	5.C.12	NO_x Sulfur content	
AA-003 AA-005 AA-006 AA-008 AA-009 AA-010 AA-011	40 CFR 72-78	5.C.13	SO_2 NO_x CO	Acid Rain Program

5.C.1 For Emission Points AA-003, AA-005, AA-006, and AA-007, the permittee shall submit a semi-annual fuel usage report in accordance with Condition 5.A.4 summarizing the type, quantity, and quality of the fuels combusted during the reporting period. This information should also include sulfur content (% by weight) and heating value (Btu/gal or Btu/scf) of the fuel.

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

5.C.2 For Emission Points AA-004 and AA-015, the permittee shall report the annual hours each engine operated in emergency use, including what constituted the emergency, and the annual hours operated in non-emergency use. The annual hours shall be submitted for each calendar year in the semiannual report due January 31st of each year.

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

5.C.3 For Emission Points AA-005 and AA-006, the permittee shall submit a semi-annual excess emissions and monitor downtime report in accordance with Condition 5.A.4 for each CEMS. This report shall include all the information required in 40 CFR 60.7(c) and (d) and the calculated corresponding emission limitation from the equation in Condition 3.B.14.

(Ref.: 40 CFR 60.334(j)(1), Subpart GG)

5.C.4 For Emission Points AA-005 and AA-006, the permittee shall submit a semi-annual report in accordance with Condition 5.A.4 that identifies any daily operating periods in which the sulfur content of the fuel being fired exceeded the applicable limits. For Emission Point AA-005, the permittee shall identify any period in which the sulfur content in the fuel exceeded 0.15 percent by weight. In the event the sulfur content of the fuel does exceed 0.15 percent by weight, the permittee shall also identify whether or not the sulfur content of the fuel exceeded 0.8 percent by weight. For Emission Point AA-006, the permittee shall identify any period in which the sulfur content in the fuel exceeded 2 grains per 100 dry scf and 0.8 percent by weight. If no such instances existed during the reporting period, the report should simply state such.

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

5.C.5 For Emission Points AA-005, AA-006, AA-008, AA-009, AA-010, and AA-011, the permittee shall submit the following notifications and reports for all required performance testing:

(a) The permittee shall submit a written test protocol at least thirty (30) days prior to the scheduled test date to ensure all test methods and procedures are acceptable to the MDEQ. After the first successful submittal of a written test protocol, the permittee may request that the submittal of a testing protocol be waived for subsequent testing by certifying in writing at least thirty (30) days prior to the subsequent testing that all conditions for testing remain unchanged such that the original protocol can and will be followed.

(b) The permittee shall submit a notification of the intent to conduct a performance test at least ten (10) days prior to the intended test date so that an observer may be scheduled to witness the test.

(c) The results from all performance tests shall be submitted to the MDEQ within sixty (60) days following completion of the performance test.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)(c)(1). and 11 Miss. Admin. Code Pt. 2, Ch. 5., as established in the PSD Permit to Construct issued December 10, 2004, and modified December 17, 2009, and PSD Permit to Construct issued August 17, 2010)

5.C.6 For Emission Points AA-005, AA-006, AA-008, AA-009, AA-010, and AA-011, the permittee shall submit a semi-annual report in accordance with Condition 5.A.4 summarizing the emissions in tons per year of NO_x based on CEMS data for each consecutive rolling 12-month period.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)(c)(1). and 11 Miss. Admin. Code Pt. 2, Ch. 5., as established in the PSD Permit to Construct issued December 10, 2004, and modified December 17, 2009)

5.C.7 For Emission Point AA-005, the permittee shall submit a semi-annual report in accordance with Condition 5.A.4 summarizing the total hours of operation for each day and for each rolling 365-day period.

(Ref.: 11 Miss. Admin. Code Pt. 2, Ch. 5., as established in the PSD Permit to issued April 9, 1996)

5.C.8 For Emission Point AA-006, the permittee shall submit a semi-annual report in accordance with Condition 5.A.4 summarizing the CO emissions in tons per year for each consecutive rolling 12-month period.

(Ref.: 11 Miss. Admin. Code Pt. 2, Ch. 5., as established in the PSD Permit to Construct issued December 10, 2004, and modified December 17, 2009)

5.C.9 For Emission Point AA-006, the permittee shall submit a semi-annual report in accordance with Condition 5.A.4 summarizing the hours of operation for each rolling 365-day period. The hours of operation should include all time spent during startups and shutdowns. Additionally, the report shall identify the number and duration of all startups and shutdowns that occurred during the rolling 365-day period and any deviations from the permitted startup and shutdown time periods.

(Ref.: 11 Miss. Admin. Code Pt. 2, Ch. 5., as established in the PSD Permit to Construct issued December 10, 2004, and modified December 17, 2009)

5.C.10 For Emission Points AA-008, AA-009, AA-010, and AA-011, the permittee shall submit a semi-annual report in accordance with Condition 5.A.4 summarizing the hours of operation in simple and combined cycle mode for each rolling 12-month period. For periods of combined cycle operation, the report shall include the monthly and rolling twelve (12) month totals of the hours of operation in which the duct burners were being fired. The

report shall also include the maximum heat input of the combustion turbines during the rolling twelve (12) month period.

(Ref.: 11 Miss. Admin. Code Pt. 2, Ch. 5., as established in the PSD Permit to Construct issued August 17, 2010)

5.C.11 For Emission Points AA-008, AA-009, AA-010, and AA-011, the permittee shall submit a semi-annual report in accordance with Condition 5.A.4 containing operating information for all combustion units and control equipment for each startup, shutdown, and combustion tuning event. At a minimum, this information shall include the number of startups, shutdowns, and combustion tuning events, duration of each, and the amount of time each combustion unit was in operation until such time the control equipment began to operate.

(Ref.: 11 Miss. Admin. Code Pt. 2, Ch. 5., as established in the PSD Permit to Construct issued August 17, 2010)

5.C.12 For Emission Points AA-008, AA-009, AA-010, and AA-011, the permittee shall submit semi-annual reports in accordance with Condition 5.A.4 which contain instances in which excess emissions (i.e., NO_x, sulfur content) or monitor downtime occurred during the reporting period in accordance with 40 CFR 60.7(c). Excess emissions must be reported for all periods of unit operation, including startup, shutdown, and malfunction.

(Ref.: 40 CFR 60.4375 and 60.4395, Subpart KKKK and 11 Miss. Admin. Code Pt. 2, Ch. 5., as established in the PSD Permit to Construct issued August 17, 2010)

5.C.13 For Emission Points AA-003, AA-005, AA-006, AA-008, AA-009, AA-010, and AA-011, the permittee shall comply with the reporting requirements specified in the Acid Rain Program regulations.

(Ref.: 40 CFR 72-78)

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 MDEQ during the permitted period.

SECTION 9. CROSS STATE AIR POLLUTION RULE REQUIREMENTS

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 AA-003, AA-005, AA-006, AA-008 (includes AA-010) and AA-009 (includes AA-011)					
Parameter	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.

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

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
MDEQ	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
$PM_{2.5}$	Particulate Matter less than 2.5 μm in diameter
ppm	Parts per Million
PSD	Prevention of Significant Deterioration
SIP	State Implementation Plan
SO_2	Sulfur Dioxide
SSM	Startup, Shutdown, and Malfunction
TPY	Tons per Year
TRS	Total Reduced Sulfur
VEE	Visible Emissions Evaluation
VHAP	Volatile Hazardous Air Pollutant
VOHAP	Volatile Organic Hazardous Air Pollutant
VOC	Volatile Organic Compound

APPENDIX B

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 July 28, 2005)

11 Miss. Admin. Code, Part 2, Ch. 5. - Regulations for the Prevention of Significant Deterioration of Air Quality (Amended April 28, 2016)

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 February 24, 2022)

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

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

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

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

40 CFR 72-78, Acid Rain Program General Provisions

40 CFR 82, Protection of Stratospheric Ozone

40 CFR 97, Subpart EEEEE, Cross State Air Pollution Rule (CSAPR) NO_x Ozone Season Group 2 Trading Program

APPENDIX C

Phase II Acid Rain Permit

PHASE II ACID RAIN PERMIT

Issued to: Moselle Generating Complex
Operated by: Cooperative Energy, a Mississippi electric cooperative
ORIS code: 2070
Effective: *September 30, 2024 to August 31, 2029*

Summary of Previous Actions:

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

1) Draft permit for public and EPA comment.	October 24, 1997
2) Final Permit issued.	December 30, 1997
3) Draft Permit for public and EPA comment (permit renewal).	November 22, 2003
4) Permit finalized and issued.	March 12, 2004
5) Permit modified to include Unit 5; issued for public comment.	May 10, 2005
6) Permit modified.	June 29, 2005
7) Draft permit for public and EPA comment (permit renewal).	September 22, 2009
8) Permit finalized and issued.	December 17, 2009
9) Draft permit for public and EPA comment (permit renewal).	July 10, 2018
10) Permit finalized and issued.	October 18, 2018
11) Draft permit for public and EPA comment (permit renewal).	August 14, 2024
12) Permit finalized and issued.	September 30, 2024

Present Action:

13) Draft permit for public and EPA comment (minor modification).	June 17, 2025
14) Permit modified and issued.	August 14, 2025

Signature Date

Becky Simonson
Chief, Environmental Permits Division

5099 PER20230001

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: Moselle Generating Complex
Operated by: Cooperative Energy, a Mississippi electric cooperative
ORIS code: 2070
Effective: *September 30, 2024 to August 31, 2029*

ACID RAIN PERMIT CONTENTS:

1) Statement of Basis.

2) SO_2 allowances allocated under this permit and NOx 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.

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1) STATEMENT OF BASIS:

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

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

		2024	2025	2026	2027	2028	2029
Unit 3 (AA-003)	**SO_2 allowances, under Table 2 of 40 CFR Part 73.**	38	38	38	38	38	38
Unit 4 (AA-005)		0	0	0	0	0	0
Unit 5 (AA-006)		0	0	0	0	0	0
Unit 6 (AA-008)		0	0	0	0	0	0
Unit 7 (AA-009)		0	0	0	0	0	0
Unit 3 Unit 4 Unit 5 Unit 6 Unit 7	**NO_x limit**	N/A					

3) COMMENTS, NOTES AND JUSTIFICATIONS:

All affected units are natural gas/fuel oil fired units; therefore, the affected units are not subject to the NO_x requirements outlined in 40 CFR Part 76.

4) PHASE II PERMIT APPLICATION:

Attached