

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

**TO OPERATE AIR EMISSIONS EQUIPMENT**

**THIS CERTIFIES THAT**

Cooperative Energy, a Mississippi electric cooperative  
Silver Creek Generating Plant  
217 Moses Lane  
Prentiss, Mississippi  
Jefferson Davis 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:** FEB 05 2018

**Effective Date:** As specified herein.

**MISSISSIPPI ENVIRONMENTAL QUALITY PERMIT BOARD**



**AUTHORIZED SIGNATURE**

**MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY**

**Expires:** January 31, 2023

**Permit No.:** 1340-00032

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## SECTION 1. GENERAL CONDITIONS

- 1.1 The permittee must comply with all conditions of this permit. Any permit noncompliance constitutes a violation of the Federal Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.A(6)(a).)
- 1.2 It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.A(6)(b).)
- 1.3 This permit and/or any part thereof may be modified, revoked, reopened, and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.A(6)(c).)
- 1.4 Prior to its expiration, this permit may be reopened in accordance with the provisions listed below.
  - (a) This permit shall be reopened and revised under any of the following circumstances:
    - (1) Additional applicable requirements under the Federal Act become applicable to a major Title V source with a remaining permit term of 3 or more years. Such a reopening shall be completed no later than 18 months after promulgation of the applicable requirement. No such reopening is required if the effective date of the requirement is later than the date on which the permit is due to expire, unless the original permit or any of its terms and conditions has been extended.
    - (2) Additional requirements (including excess emissions requirements) become applicable to an affected source under the acid rain program. Upon approval by the Administrator, excess emissions offset plans shall be deemed to be incorporated into the permit.
    - (3) The Permit Board or EPA determines that the permit contains a material mistake or that inaccurate statements were made in establishing the emission standards or other terms or conditions of the permit.
    - (4) The Administrator or the Permit Board determines that the permit must be revised or revoked to assure compliance with the applicable requirements.
  - (b) Proceedings to reopen and issue this permit shall follow the same procedures as apply to initial permit issuance and shall only affect those parts of the permit for

which cause to reopen exists. Such reopening shall be made as expeditiously as practicable.

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

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

- 1.5 The permittee shall furnish to the DEQ within a reasonable time any information the DEQ may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to the DEQ copies of records required to be kept by the permittee or, for information to be confidential, the permittee shall furnish such records to DEQ along with a claim of confidentiality. The permittee may furnish such records directly to the Administrator along with a claim of confidentiality. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.A(6)(e).)
- 1.6 This permit does not convey any property rights of any sort, or any exclusive privilege. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.A(6)(d).)
- 1.7 The provisions of this permit are severable. If any provision of this permit, or the application of any provision of this permit to any circumstances, is challenged or held invalid, the validity of the remaining permit provisions and/or portions thereof or their application to other persons or sets of circumstances, shall not be affected thereby. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.A(5).)
- 1.8 The permittee shall pay to the DEQ an annual permit fee. The amount of fee shall be determined each year based on the provisions of regulated pollutants for fee purposes and the fee schedule specified in the Commission on Environmental Quality's order which shall be issued in accordance with the procedure outlined in Regulation 11 Miss. Admin. Code Pt. 2, Ch. 6.
  - (a) For purposes of fee assessment and collection, the permittee shall elect for actual or allowable emissions to be used in determining the annual quantity of emissions unless the Commission determines by order that the method chosen by the applicant for calculating actual emissions fails to reasonably represent actual emissions. Actual emissions shall be calculated using emission monitoring data or direct emissions measurements for the pollutant(s); mass balance calculations such as the amounts of the pollutant(s) entering and leaving process equipment and where mass balance calculations can be supported by direct measurement of process parameters, such direct measurement data shall be supplied; published emission factors such as those relating release quantities to throughput or equipment type (e.g., air emission factors); or other approaches such as engineering calculations (e.g., estimating volatilization using published mathematical formulas) or best engineering judgments where such judgments are derived from process and/or

emission data which supports the estimates of maximum actual emission. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.6.A(2).)

- (b) If the Commission determines that there is not sufficient information available on a facility's emissions, the determination of the fee shall be based upon the permitted allowable emissions until such time as an adequate determination of actual emissions is made. Such determination may be made anytime within one year of the submittal of actual emissions data by the permittee. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.6.A(2).) If at any time within the year the Commission determines that the information submitted by the permittee on actual emissions is insufficient or incorrect, the permittee will be notified of the deficiencies and the adjusted fee schedule. Past due fees from the adjusted fee schedule will be paid on the next scheduled quarterly payment time. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.6.D(2).)
  - (c) The fee shall be due September 1 of each year. By July 1 of each year the permittee shall submit an inventory of emissions for the previous year on which the fee is to be assessed. The permittee may elect a quarterly payment method of four (4) equal payments; notification of the election of quarterly payments must be made to the DEQ by the first payment date of September 1. The permittee shall be liable for penalty as prescribed by State Law for failure to pay the fee or quarterly portion thereof by the date due. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.6.D.)
  - (d) If in disagreement with the calculation or applicability of the Title V permit fee, the permittee may petition the Commission in writing for a hearing in accordance with State Law. Any disputed portion of the fee for which a hearing has been requested will not incur any penalty or interest from and after the receipt by the Commission of the hearing petition. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.6.C.)
- 1.9 No permit revision shall be required under any approved economic incentives, marketable permits, emissions trading and other similar programs or processes for changes that are provided for in this permit. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.A(8).)
- 1.10 Any document required by this permit to be submitted to the DEQ shall contain a certification by a responsible official that states that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.2.E.)
- 1.11 The permittee shall allow the DEQ, or an authorized representative, upon the presentation of credentials and other documents as may be required by law, to perform the following:
- (a) enter upon the permittee's premises where a Title V source is located or emissions-related activity is conducted, or where records must be kept under the conditions of this permit;
  - (b) have access to and copy, at reasonable times, any records that must be kept under

the conditions of this permit;

- (c) inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit; and
- (d) as authorized by the Federal Act, sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with the permit or applicable requirements.

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

- 1.12 Except as otherwise specified or limited herein, the permittee shall have necessary sampling ports and ease of accessibility for any new air pollution control equipment, obtained after May 8, 1970, and vented to the atmosphere. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 1.3.I(1).)
- 1.13 Except as otherwise specified or limited herein, the permittee shall provide the necessary sampling ports and ease of accessibility when deemed necessary by the Permit Board for air pollution control equipment that was in existence prior to May 8, 1970. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 1.3.I(2).)
- 1.14 Compliance with the conditions of this permit shall be deemed compliance with any applicable requirements as of the date of permit issuance where such applicable requirements are included and are specifically identified in the permit or where the permit contains a determination, or summary thereof, by the Permit Board that requirements specifically identified previously are not applicable to the source. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.F(1).)
- 1.15 Nothing in this permit shall alter or affect the following:
  - (a) the provisions of Section 303 of the Federal Act (emergency orders), including the authority of the Administrator under that section;
  - (b) the liability of an owner or operator of a source for any violation of applicable requirements prior to or at the time of permit issuance;
  - (c) the applicable requirements of the acid rain program, consistent with Section 408(a) of the Federal Act.
  - (d) the ability of EPA to obtain information from a source pursuant to Section 114 of the Federal Act.

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

- 1.16 The permittee shall comply with the requirement to register a Risk Management Plan if permittee's facility is required pursuant to Section 112(r) of the Act to register such a plan. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.H.)
- 1.17 Expiration of this permit terminates the permittee's right to operate unless a timely and complete renewal application has been submitted. A timely application is one which is submitted at least six (6) months prior to expiration of the Title V permit. If the permittee submits a timely and complete application, the failure to have a Title V permit is not a violation of regulations until the Permit Board takes final action on the permit application. This protection shall cease to apply if, subsequent to the completeness determination, the permittee fails to submit by the deadline specified in writing by the DEQ any additional information identified as being needed to process the application. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.4.C(2)., R. 6.4.B., and R. 6.2.A(1)(c).)
- 1.18 The permittee is authorized to make changes within their facility without requiring a permit revision (ref: Section 502(b)(10) of the Act) if:
- (a) the changes are not modifications under any provision of Title I of the Act;
  - (b) the changes do not exceed the emissions allowable under this permit;
  - (c) the permittee provides the Administrator and the Department with written notification in advance of the proposed changes (at least seven (7) days, or such other time frame as provided in other regulations for emergencies) and the notification includes:
    - (1) a brief description of the change(s),
    - (2) the date on which the change will occur,
    - (3) any change in emissions, and
    - (4) any permit term or condition that is no longer applicable as a result of the change;
  - (d) the permit shield shall not apply to any Section 502(b)(10) change.
- (Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.4.F(1).)
- 1.19 Should the Executive Director of the Mississippi Department of Environmental Quality declare an Air Pollution Emergency Episode, the permittee will be required to operate in accordance with the permittee's previously approved Emissions Reduction Schedule or, in the absence of an approved schedule, with the appropriate requirements specified in 11 Miss. Admin. Code Pt. 2, Ch. 3., "Regulations for the Prevention of Air Pollution Emergency Episodes" for the level of emergency declared. (Ref.: 11 Miss. Admin. Code Pt. 2, Ch. 3.)

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

- (a) routine maintenance, repair, and replacement;
- (b) use of an alternative fuel or raw material by reason of an order under Sections 2 (a) and (b) of the Federal Energy Supply and Environmental Coordination Act of 1974 (or any superseding legislation) or by reason of a natural gas curtailment plan pursuant to the Federal Power Act;
- (c) use of an alternative fuel by reason of an order or rule under Section 125 of the Federal Act;
- (d) use of an alternative fuel or raw material by a stationary source which:
  - (1) the source was capable of accommodating before January 6, 1975, unless such change would be prohibited under any federally enforceable permit condition which was established after January 6, 1975, pursuant to 40 CFR 52.21 or under regulations approved pursuant to 40 CFR 51.166; or
  - (2) the source is approved to use under any permit issued under 40 CFR 52.21 or under regulations approved pursuant to 40 CFR 51.166;
- (e) an increase in the hours of operation or in the production rate unless such change would be prohibited under any federally enforceable permit condition which was established after January 6, 1975, pursuant to 40 CFR 52.21 or under regulations approved pursuant to 40 CFR Subpart I or 40 CFR 51.166; or
- (f) any change in ownership of the stationary source.

(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  
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Air Act as amended in 1990. All terms and conditions, including any designed to limit the source's potential to emit, are enforceable by the Administrator and citizens under the Federal Act as well as the Commission. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.B(1).)

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

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

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

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

- (a) Except as otherwise specified herein, an "emergency" means any situation arising from sudden and reasonably unforeseeable events beyond the control of the source, including acts of God, which situation requires immediate corrective action to restore normal operation, and that causes the source to exceed a technology-based emission limitation under the permit, due to unavoidable increases in emissions attributable to the emergency. An emergency shall not include noncompliance to the extent caused by improperly designed equipment, lack of preventative maintenance, careless or improper operation, or operator error.
- (b) An emergency constitutes an affirmative defense to an action brought for noncompliance with such technology-based emission limitations if the conditions specified in (c) following are met.
- (c) The affirmative defense of emergency shall be demonstrated through properly signed contemporaneous operating logs, or other relevant evidence that include

information as follows:

- (1) an emergency occurred and that the permittee can identify the cause(s) of the emergency;
  - (2) the permitted facility was at the time being properly operated;
  - (3) during the period of the emergency the permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards, or other requirements in the permit; and
  - (4) the permittee submitted notice of the emergency to the DEQ within 2 working days of the time when emission limitations were exceeded due to the emergency. This notice must contain a description of the emergency, any steps taken to mitigate emissions, and corrective actions taken.
- (d) In any enforcement proceeding, the permittee seeking to establish the occurrence of an emergency has the burden of proof.
- (e) This provision is in addition to any emergency or upset provision contained in any applicable requirement specified elsewhere herein.

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

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

- (a) Upsets (as defined in 11 Miss. Admin. Code Pt. 2, R. 1.2.)
- (1) For an upset, the Commission may pursue an enforcement action for noncompliance with an emission standard or other requirement of an applicable rule, regulation, or permit. In determining whether to pursue enforcement action, and/or the appropriate enforcement action to take, the Commission may consider whether the source has demonstrated through properly signed contemporaneous operating logs or other relevant evidence the following:
    - (i) An upset occurred and that the source can identify the cause(s) of the upset;
    - (ii) The source was at the time being properly operated;
    - (iii) During the upset the source took all reasonable steps to minimize levels of emissions that exceeded the emission standard or other requirement of an applicable rule, regulation, or permit;

- (iv) That within 5 working days of the time the upset began, the source submitted a written report to the Department describing the upset, the steps taken to mitigate excess emissions or any other noncompliance, and the corrective actions taken and;
    - (v) That as soon as practicable but no later than 24 hours of becoming aware of an upset that caused an immediate adverse impact to human health or the environment beyond the source boundary or caused a general nuisance to the public, the source provided notification to the Department.
  - (2) In any enforcement proceeding by the Commission, the source seeking to establish the occurrence of an upset has the burden of proof.
  - (3) This provision is in addition to any upset provision contained in any applicable requirement.
  - (4) These upset provisions apply only to enforcement actions by the Commission and are not intended to prohibit EPA or third party enforcement actions.
- (b) Startups and Shutdowns (as defined in 11 Miss. Admin. Code Pt. 2, R. 1.2.)
- (1) Startups and shutdowns are part of normal source operation. Emission limitations apply during startups and shutdowns unless source specific emission limitations or work practice standards for startups and shutdowns are defined by an applicable rule, regulation, or permit.
  - (2) Where the source is unable to comply with existing emission limitations established under the State Implementation Plan (SIP) and defined in this regulation, 11 Mississippi Administrative Code, Part 2, Chapter 1, the Department will consider establishing source specific emission limitations or work practice standards for startups and shutdowns. Source specific emission limitations or work practice standards established for startups and shutdowns are subject to the requirements prescribed in 11 Miss. Admin. Code Pt. 2, R. 1.10.B(2)(a) through (e).
  - (3) Where an upset as defined in Rule 1.2 occurs during startup or shutdown, see the upset requirements above.

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

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

required to obtain a modification of this permit in order to perform the referenced activities. (Ref.: 11 Miss Admin. Code Pt. 2, R. 1.8.)

## SECTION 2. EMISSION POINTS & POLLUTION CONTROL DEVICES

Emission Point	Description
AA-001	1,109.3 MMBtu/hr (HHV) natural gas-fired simple cycle combustion turbine generator (CTG) equipped with dry low NO <sub>x</sub> burners.
AA-002	1,109.3 MMBtu/hr (HHV) natural gas-fired simple cycle combustion turbine generator (CTG) equipped with dry low NO <sub>x</sub> burners.
AA-003	1,109.3 MMBtu/hr (HHV) natural gas-fired simple cycle combustion turbine generator (CTG) equipped with dry low NO <sub>x</sub> burners.
AA-007	410 HP diesel fuel-fired compression ignition (CI) emergency fire pump

### **SECTION 3. EMISSION LIMITATIONS & STANDARDS**

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

- 3.A.1 Except as otherwise specified or limited herein, the permittee shall not cause, permit, or allow the emission of smoke from a point source into the open air from any manufacturing, industrial, commercial or waste disposal process which exceeds forty (40) percent opacity subject to the exceptions provided in (a) & (b).
- (a) Startup operations may produce emissions which exceed 40% opacity for up to fifteen (15) minutes per startup in any one hour and not to exceed three (3) startups per stack in any twenty-four (24) hour period.
  - (b) Emissions resulting from soot blowing operations shall be permitted provided such emissions do not exceed 60 percent opacity, and provided further that the aggregate duration of such emissions during any twenty-four (24) hour period does not exceed ten (10) minutes per billion BTU gross heating value of fuel in any one hour. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 1.3.A.)
- 3.A.2 Except as otherwise specified or limited herein, the permittee shall not cause, allow, or permit the discharge into the ambient air from any point source or emissions, any air contaminant of such opacity as to obscure an observer's view to a degree in excess of 40% opacity, equivalent to that provided in Paragraph 3.A.1. This shall not apply to vision obscuration caused by uncombined water droplets. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 1.3.B.)

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

Emission Point(s)	Applicable Requirement	Condition Number(s)	Pollutant/Parameter	Limit/Standard
AA-001 AA-002 AA-003	11 Miss. Admin. Code Pt. 2, R. 1.3.D(1)(b).	3.B.1	PM (filterable only)	$E = 0.8808 * (I)^{-0.1667}$
AA-001 AA-002 AA-003	PSD Construction Permit issued on May 29, 2002, and 11 Miss. Admin. Code Pt. 2, R. 6.3.A(1).	3.B.2	NO <sub>x</sub>	9 PPMV at 15% oxygen on a dry basis, not to exceed 36.0 lbs/hr, both limits are based on a 3-hour operating rolling average, and 118.8 tons/year
			CO	25 PPMV at 15% oxygen on a dry basis, not to exceed 71.0 lbs/hr, both limits are based on a 3-hour operating rolling average, and 234.5 tons/year
			PM/PM <sub>10</sub> (filterable only)	10.0 lbs/hr and 33.0 tons/year
			SO <sub>2</sub>	6.1 lbs/hr and 20.1 tons/year
			Opacity	≤ 10%
		3.B.3	CO	92.4 lbs/hr during startup and 116.1 lbs/hr during shutdown
		3.B.4	Operating Restriction	6,600 hours/year per turbine
		3.B.5	Fuel Restrictions	Natural gas only Sulfur content ≤ 2 grains per 100 dry standard cubic foot
AA-001 AA-002 AA-003	Title V Operating Permit Issued June 24, 2009	3.B.6	Startup/Shutdown	≤ 60 minutes each
AA-001 AA-002 AA-003	PSD Construction Permit Issued May 29, 2002, and 11 Miss. Admin. Code Pt. 2, R. 6.3.A(1).	3.B.7	Startup/Shutdown/Combustion Tuning	Follow good air pollution control practices and manufacturer's recommendations.
AA-001 AA-002 AA-003	Standards of Performance for Stationary Gas Turbines  40 CFR 60, Subpart GG, 60.330	3.B.8	SO <sub>2</sub> /NO <sub>x</sub>	Applicability
	40 CFR 60, Subpart GG, 60.332(a)(1) and (b)	3.B.9	NO <sub>x</sub>	$NO_x \leq 0.0075 * (14.4/Y) + F$ ; expressed as percent by volume at 15% O <sub>2</sub> on a dry basis

Emission Point(s)	Applicable Requirement	Condition Number(s)	Pollutant/Parameter	Limit/Standard
	40 CFR 60, Subpart GG, 60.333(b)	3.B.10	SO <sub>2</sub>	Sulfur Content ≤0.8% by weight
AA-001 AA-002 AA-003	Acid Rain Program Regulations, 40 CFR 72-78	3.B.11	NO <sub>x</sub> , SO <sub>2</sub> , and CO <sub>2</sub>	Applicability to Acid Rain Program (See Section 8.0)
AA-001 AA-002 AA-003	Cross-State Air Pollution Rule (CSAPR), 40 CFR 97, Subpart BBBBBB - NO <sub>x</sub> Ozone Season Trading Program	3.B.12	NO <sub>x</sub>	CSAPR Rule Requirements (See Section 9.0)
AA-007	11 Miss. Admin. Code Pt. 2, R. 1.3.D(1)(a).	3.B.13	PM (filterable only)	0.6 lb/MMBtu
	PSD Construction Permit issued on May 29, 2002	3.B.14	Operating Restriction	60 hours/year
AA-007	NESHAP for Stationary Reciprocating Internal Combustion Engines (RICE), 40 CFR 63, Subpart ZZZZ 63.6580, 63.6585(a) and (c), 63.6590(a)(1)(iii), 63.6640(f)(1), (2)(i) and (4), and 63.6675	3.B.15	HAP	Applicability
	40 CFR 63, Subpart ZZZZ 63.6603(a), 63.6625(i), and Table 2d	3.B.16		Operating and Maintenance Requirements
	40 CFR 63, Subpart ZZZZ 63.6605(a) and (b)	3.B.17		General Compliance Requirements
	40 CFR 63, Subpart ZZZZ 63.6625(e), (f), and (h), 63.6640, and Tables 2d and 6	3.B.18		Maintenance plan; hour meter; minimize startup

- 3.B.1 For Emission Points AA-001, AA-002 and AA-003, except as otherwise specified or limited herein, the maximum permissible emission of ash and/or particulate matter (PM) from fossil fuel burning installations greater than 10 million BTU per hour heat input but less than 10,000 million BTU per hour heat input shall not exceed an emission rate as determined by the relationship:

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

where E is the emission rate in pounds per million BTU per hour heat input and I is the heat input in millions of BTU per hour. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 1.3.D(1)(b).)

- 3.B.2 For Emission Points AA-001, AA-002, and AA-003, the permittee is limited by the State of Mississippi Prevention of Significant Deterioration (PSD) Air Permit to Construct issued on May 29, 2002, as follows:

EMISSIONS LIMITATIONS

Particulate Matter (PM) (filterable only)	10.0 lbs/hr and 33.0 tons/year
PM <sub>10</sub> (filterable only)	10.0 lbs/hr and 33.0 tons/year
Sulfur Dioxide (SO <sub>2</sub> )	6.1 lbs/hr and 20.1 tons/year
Nitrogen Oxides (NO <sub>x</sub> )	9 parts per million by volume (PPMV) at 15% oxygen on a dry basis, not to exceed 36.0 lbs/hr, both limits are based on a 3-hour operating rolling average, and 118.8 tons/year
Carbon Monoxide (CO)	25 PPMV at 15% oxygen on a dry basis, not to exceed 71.0 lbs/hr, both limits are based on a 3-hour operating rolling average, and 234.5 tons/year
Opacity	10%

The permittee shall comply with the emission limitations and monitoring requirements specified in this permit, except during periods of startup, shutdown, and combustion tuning<sup>1</sup>. However, the permittee shall meet the tons/year emission limits to include emissions during periods of startup, shutdown, and combustion tuning. (Ref.: PSD Construction Permit issued May 29, 2002, and 11 Miss. Admin. Code Pt. 2, R. 6.3.A(1).)

- 3.B.3 For Emission Points AA-001, AA-002 and AA-003, the permittee is limited to a mass emission rate of 92.4 lbs/hr of CO during startup (based on 1 startup per hour) and 116.1 lbs/hr during shutdown (based on 1 shutdown per hour). (Ref.: PSD Construction Permit issued May 29, 2002)
- 3.B.4 For Emission Points AA-001, AA-002, and AA-003, the permittee shall be limited to 6,600 hours/year per turbine on a 365-day rolling total. The hours of operation include startup, shutdown, and combustion tunings. (Ref.: PSD Construction Permit issued May 29, 2002, and 11 Miss. Admin. Code Pt. 2, R. 6.3.A(1).)
- 3.B.5 For Emission Points AA-001, AA-002, and AA-003, the permittee shall not burn any fuel which contains sulfur in excess of 2 grains per 100 dry standard cubic feet. The permittee is limited to burning natural gas only. (Ref.: PSD Construction Permit issued May 29, 2002)

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<sup>1</sup> 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 hours and is required to ensure the safe, reliable steady-state operation of the turbine and to minimize NO<sub>x</sub> and CO emissions.

- 3.B.6 For Emission Points AA-001, AA-002, and AA-003, a startup event shall not exceed sixty (60) minutes and a shutdown event shall not exceed sixty (60) minutes. 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 base load trip to loss of fuel ignition. (Ref.: Title V Operating Permit issued June 24, 2009)
- 3.B.7 The permittee shall operate the combustion turbines in a manner consistent with good air pollution control practices to minimize emissions during startup, shutdown, and combustion tuning. 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 startup, shutdown, and combustion tunings as necessary to make adjustments to reduce or eliminate excess emissions. (Ref.: PSD Construction Permit issued May 29, 2002, and 11 Miss. Admin. Code Pt. 2, R. 6.3.A(1).)
- 3.B.8 Emission Points AA-001, AA-002 and AA 003, are subject to and shall comply with all applicable requirements of the Standards of Performance for Stationary Gas Turbines, 40 CFR 60, Subpart GG and the applicable General Provisions in 40 CFR 60, Subpart A. (Ref.: 40 CFR 60.330)
- 3.B.9 For Emission Points AA-001, AA-002, and AA-003, 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 = allowable ISO corrected (if required as given in §60.335(b)(1)) NO<sub>x</sub> emission concentration (percent by volume at 15 percent oxygen and on a dry basis),

Y = 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 = NO<sub>x</sub> emission allowance for fuel-bound nitrogen as defined in paragraph (a)(4) of this section.

The permittee shall be deemed in compliance with this Subpart GG limit provided the permittee demonstrates compliance with the 9 PPMV at 15% oxygen limit contained in Condition 3.B.2 of this permit. (Ref.: 40 CFR 60.332(a)(1) and (b))

- 3.B.10 For Emission Points AA-001, AA-002, and AA-003, the permittee shall not burn any fuel, which contains total sulfur in excess of 0.8 percent by weight. (Ref.: 40 CFR 60.333(b))

- 3.B.11 Emission Points AA-001, AA-002 and AA-003 are subject to the Acid Rain Program Regulations as specified in 40 CFR 72-78. The permittee shall comply with all applicable requirements of said standards as included in Section 8 and specified in the Acid Rain Permit attached to this permit in Appendix C. (Ref.: 40 CFR 72-78)
- 3.B.12 For Emission Points AA-001, AA-002, and AA-003, the permittee is subject to the applicable requirements of the Cross-State Air Pollution Rule (CSAPR) as set forth in 40 CFR 97, Subpart BBBBBB –NO<sub>x</sub> Ozone Season Trading Program. The permittee must ensure that the subject units have allocations equal to or greater than the emissions during the ozone season period (May 1 – September 30). See Section 9.0 for additional requirements. (Ref.: 40 CFR 97, Subpart BBBBBB)
- 3.B.13 For Emission Point AA-007, 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.14 For Emission Point AA-007, the permittee is limited to sixty (60) hours per year routine operation on a 12-month rolling total. (Ref.: PSD Construction Permit issued May 29, 2002)
- 3.B.15 Emission Point AA-007 is subject to the National Emission Standards for Hazardous Air Pollutants (NESHAP) for Stationary Reciprocating Internal Combustion Engines (RICE), 40 CFR 63, Subpart ZZZZ. For purposes of this subpart, Emission Point AA-007 is an existing emergency compression ignition stationary RICE with a site rating <500 HP with a displacement of less than 30 liters/cylinder located at an area source of HAPs. The permittee is required to meet the applicable requirements of this standard and the applicable General Provisions, 40 CFR Part 63, Subpart A.

In order for the engine to be considered an emergency stationary RICE under this subpart, any operation other than emergency operation, maintenance and testing, and operation in non-emergency situations for 50 hours per year as described in (c) below, is prohibited. If the permittee does not operate the engine according to the requirements in (a)-(c) below, the engine will not be considered an emergency engine under Subpart ZZZZ and must meet all requirements for non-emergency engines.

- (a) There is no limit on the use of the engine during emergency situations.
- (b) The permittee may operate the engine for maintenance checks and readiness testing for a maximum of 100 hours per calendar year provided the tests are recommended by federal, state, or local government, the manufacturer, the vendor, the regional transmission organization or equivalent balancing authority and transmission operator, or insurance company associated with the engine. The permittee may petition the MDEQ for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator

maintains records indicating the federal, state, or local standards require maintenance testing of the engine beyond 100 hours per calendar year.

- (c) The emergency engine may be operated for up to 50 hours per calendar year in non-emergency situations. The 50 hours of operation in non-emergency situations are counted as part of the 100 hours per calendar year for maintenance and testing provided in paragraph (b). Except as provided in 63.6640(f)(4)(i) and (ii), the 50 hours per year for non-emergency situations cannot be used for peak shaving or non-emergency demand response, or to generate income for a facility to supply power to an electric grid or otherwise supply power to an electric grid or otherwise supply power as part of a financial arrangement with another entity.

(Ref.: 40 CFR 63.6580, 63.6585, 63.6590(a)(1)(iii), 63.6640(f)(1),(2)(i), and (4) and 63.6675)

3.B.16 For Emission Point AA-007, the permittee shall comply with the following requirements:

- (a) Change oil and filter every 500 hours of operation or annually, whichever comes first, or perform an oil analysis at the same frequency in order to extend the oil change requirement in accordance with 63.6625(i).
- (b) Inspect air cleaner every 1,000 hours of operation or annually, whichever comes first, and replace as necessary.
- (c) Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.

If the engine is operating during an emergency and it is not possible to shut down the engine in order to perform the management practices according to the schedule listed in (a)–(c) above, or if performing the management practice on the required schedule would otherwise pose an unacceptable risk under Federal, State, or local law, the management practice can be delayed until the emergency is over or the unacceptable risk under Federal, State, or local law has abated. The management practice should be performed as soon as practicable after the emergency has ended or the unacceptable risk under Federal, State, or local law has abated. (Ref.: 40 CFR 63.6603(a), 63.6625(i), and Table 2d of Subpart ZZZZ)

3.B.17 For Emission Point AA-007, the permittee shall, at all times, be in compliance with the applicable requirements of Subpart ZZZZ and operate and maintain the engine, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. The general duty to minimize emissions does not require the permittee to make any further efforts to reduce emissions if levels required by Subpart ZZZZ have been achieved. Determination of whether such operation and maintenance procedures are being used will be based on information available to the MDEQ which may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source. (Ref.: 40 CFR 63.6605(a) and (b))

3.B.18 For Emission Point AA-007, the permittee shall comply with the following requirements:

- (a) Operate and maintain the engine according to the manufacturer's emission-related written instructions or develop and follow a maintenance plan which provides to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution practice for minimizing emissions.
- (b) Install and maintain a non-resettable hour meter on the engine.
- (c) The permittee shall minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes, after which time the non-startup emission limitations apply.

(Ref.: 40 CFR 63.6625(e), (f), and (h), 63.6640(a), and Tables 2d and 6 of Subpart ZZZZ)

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 (filterable only)	0.6 lbs/MMBTU
11 Miss. Admin. Code Pt. 2, R. 1.4.A(1).	3.C.2	SO <sub>2</sub>	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. 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.
- 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. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)(c)(1).)
- 5.A.5 Except as otherwise specified herein, the permittee shall report all deviations from permit requirements, including those attributable to upsets, the probable cause of such deviations, and any corrective actions or preventive measures taken. Said report shall be made within five (5) days of the time the deviation began. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)(c)(2).)
- 5.A.6 Except as otherwise specified herein, the permittee shall perform emissions sampling and analysis in accordance with EPA Test Methods and with any continuous emission

monitoring requirements, if applicable. All test methods shall be those versions or their equivalents approved by the DEQ and the EPA.

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

**B. Specific Monitoring and Recordkeeping Requirements**

Emission Point(s)	Applicable Requirement	Condition Number	Pollutant/Parameter Monitored	Monitoring/Recordkeeping Requirement
AA-001 AA-002 AA-003	11 Miss. Admin. Code Pt. 2, R.6.3.A(3).	5.B.1	NO <sub>x</sub>	CEMS to demonstrate compliance
		5.B.2		
		5.B.3	Startups/Shutdowns	Monitor and maintain records
		5.B.4	CO	Stack testing and emission calculations
AA-001 AA-002 AA-003	PSD Construction Permit issued May 29, 2002	5.B.5	NO <sub>x</sub> CO <sub>2</sub>	CEMS
		5.B.6	Operating Hours	Monitor and maintain hours of operation
		5.B.7	SO <sub>2</sub>	Monitor and demonstrate compliance
AA-001 AA-002 AA-003	40 CFR 75	5.B.8	Fuel flow, NO <sub>x</sub> , and CO <sub>2</sub>	Monitor required data
AA-001 AA-002 AA-003	40 CFR Part 60, Subpart GG, 60.334	5.B.9	Fuel	Monitor and maintain fuel quality and usage
AA-007	PSD Construction Permit issued May 29, 2002	5.B.10	Operating Hours	Monitor and maintain hours of operation
AA-007	40 CFR 63, Subpart ZZZZ, 63.6625(i) and 63.6655(a), (d), (e)(2) and (f)(2)	5.B.11	HAP	Maintenance, malfunction, and operating records
	40 CFR 63, Subpart ZZZZ, 63.6660	5.B.12		General recordkeeping

5.B.1 For Emission Points AA-001, AA-002, and AA-003, the permittee shall demonstrate compliance with NO<sub>x</sub> emission limitations using continuous emission monitoring systems (CEMS). Demonstrating compliance with NO<sub>x</sub> limits using CEMS data in lieu of EPA Reference Methods in an acceptable practice provided that the permittee meets the guidelines established in EPA's general guidance on "Alternative Testing and Monitoring Procedures for Combustion Turbines Regulated under New Source

Performance Standards". This includes 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.2 For Emission Points AA-001, AA-002, and AA-003, the NO<sub>x</sub> and O<sub>2</sub> CEMS shall also be capable to accurately measure and monitor NO<sub>x</sub> concentrations to comply with the tons/year limit. The permittee will use data from the Data Acquisition Handling System (DAHS) to calculate the tons/year for NO<sub>x</sub>. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.A(3).)
- 5.B.3 For Emission Points AA-001, AA-002, and AA-003, the permittee shall monitor and maintain records of the duration of time each emission point engages in periods of startup, shutdown, and combustion tuning. Such records shall include time, date and duration of such startups, shutdowns, and combustion tunings along with confirmation that good air pollution control practices were followed. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.A(3).)
- 5.B.4 For Emission Points AA-001, AA-002, and AA-003, the permittee shall demonstrate compliance with CO emission limitations by stack testing in accordance with EPA Reference Method 10 and submittal of a stack test report once within the life of this permit. Stack testing shall be performed under normal operating conditions and while operating at or near capacity.

The permittee shall submit a written test protocol at least thirty (30) days prior to the scheduled test date to ensure that all test methods and procedures are acceptable to the MDEQ. Also, the MDEQ must be notified at least ten (10) days prior to the scheduled test date so that an observer may be scheduled to witness the test(s).  
(Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.A(3).)

- 5.B.5 For Emission Points AA-001, AA-002, and AA-003, the permittee shall install, calibrate, maintain, and operate CEMS for NO<sub>x</sub> (as specified in 40 CFR 60.334, Appendix C of 40 CFR 60, and 40 CFR 75). The permittee shall also install a CO<sub>2</sub> diluent gas monitor. The monitoring systems must comply with all applicable requirements specified in 60.334, 60.13, Appendix C of Part 60, and Part 75. In addition, the permittee must comply with the reporting and recordkeeping requirements specified in 60.7 and 40 CFR 75. (Ref.: PSD Construction Permit issued May 29, 2002)
- 5.B.6 For Emission Points AA-001, AA-002, and AA-003, the permittee shall monitor and record hours of operation on a daily basis. The permittee shall also record the number of startups, shutdowns, and combustion tunings based on a 365-day rolling total. The permittee shall compute the hours of operation using the following formula:

[1.91 x hours of operation in startup mode (in a 365-day rolling total)] + [58.1 x hours of operation in shutdown mode (in a 365-day rolling total)] + [1.39 x hours of operation in combustion tuning mode (in a 365-day rolling total)] + [hours in normal operation (in a 365-day rolling total)] ≤ 6,600 hours. (Ref.: PSD Construction Permit issued May 29,

2002, and 11 Miss. Admin. Code Pt. 2, R. 6.3.A(3).)

- 5.B.7 For Emission Points AA-001, AA-002, and AA-003, the permittee shall demonstrate compliance with the annual emission limitations for SO<sub>2</sub> by using the applicable 40 CFR Part 75 Acid Rain requirements in Appendix D. (Ref.: PSD Construction Permit issued May 29, 2002)
- 5.B.8 For Emission Points AA-001, AA-002, and AA-003, the permittee shall monitor and keep records of emissions in accordance with 40 CFR 75. The permittee shall maintain a file on site of all measurements, data, reports, and other information required in 75.57 for each affected unit for a period of three (3) years. (Ref.: 40 CFR 75.57)
- 5.B.9 For Emission Points AA-001, AA-002, and AA-003, the permittee shall monitor, record, and maintain the fuel combusted each day and the sulfur content of the fuel being fired. The permittee may elect not to monitor the total sulfur content of the gaseous fuel combusted if the gaseous fuel is demonstrated to meet the definition of natural gas in 60.331(u). This demonstration shall be made by specifying that the maximum sulfur content of the fuel does not exceed 20.0 grains/100 scf using one of the following methods:
- (a) A valid purchase contract, tariff sheet, or transportation contract for the gaseous fuel, which specifies that the maximum total sulfur content of the fuel is 20.0 grains/100 scf or less; or
  - (b) Obtain representative fuel sampling data, in accordance with the requirements specified in Section 2.3.1.4 or 2.3.2.4 of Appendix D to Part 75, which demonstrate that the sulfur content of the gaseous fuel does not exceed 20 grains/100 scf.

The permittee may use one of the methods above to demonstrate compliance with the fuel sulfur content limitation contained in Condition 3.B.5.

(Ref.: 40 CFR 60.334(h), Subpart GG and PSD Construction Permit issued May 29, 2002)

- 5.B.10 For Emission Point AA-007, the permittee shall maintain records detailing the hours of operation on a monthly basis and on a 12-month rolling total. (Ref.: PSD Construction Permit issued May 29, 2002)
- 5.B.11 For Emission Point AA-007, the permittee shall keep the following records:
- (a) A copy of each report submitted to comply with Subpart ZZZZ.
  - (b) Documentation of each occurrence and the duration of malfunctions of operations (i.e., process equipment) or air pollution control and monitoring equipment and the actions taken to minimize emissions during the malfunction, including corrective actions to restore the equipment to normal operation.
  - (c) Documentation of the maintenance conducted on the engine in order to demonstrate

that the engine is being operated and maintained according to the manufacturer's emission-related operation and maintenance instructions or your own maintenance plan.

- (d) If using an oil analysis program, documentation of the parameters that were analyzed, the results of the analysis, and the oil changes for the engine.
- (e) Documentation of the hours of operation of the engine that is recorded through the non-resettable hour meter. The records must indicate how many hours are spent in emergency operation, including what classified the operation as emergency, and how many hours are spent in non-emergency operation and the type of non-emergency operation.

(Ref.: 40 CFR 63.6625(i) and 63.6655 (a), (d), (e)(2), and (f)(2))

- 5.B.12 For Emission Point AA-007, the permittee shall keep records in a form suitable and readily available for expeditious review according to 40 CFR 63.10(b)(1).

The permittee shall keep readily accessible records in hard copy or electronic form for five (5) years following the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to 40 CFR 63.10(b)(1).

(Ref.: 40 CFR 63.6660)

### C. Specific Reporting Requirements

Emission Point(s)	Applicable Requirement	Condition Number	Pollutant/Parameter Monitored	Reporting Requirement
AA-001 AA-002 AA-003	PSD Construction Permit issued on May 29, 2002	5.C.1	CO Hours of Operation	Semi-annual report
		5.C.2	NO <sub>x</sub>	Semi-annual emissions report
		5.C.3	SO <sub>2</sub>	Annual report
AA-001 AA-002 AA-003	11 Miss. Admin. Code Pt. 2, R. 6.3.A(3).	5.C.4	Stack Tests	Submittal of test results
AA-007	PSD Construction Permit issued on May 29, 2002	5.C.5	Hours of Operation	Semi-annual report
AA-007	40 CFR 63.6640(b) and Footnote 2 to Table 2d	5.C.6	HAP	Deviation Reporting

- 5.C.1 For Emission Points AA-001, AA-002, and AA-003, the permittee shall submit semi-annual reports summarizing the hours of operation in normal operation, startup, shutdown, and combustion tuning, and the tons/year of CO emissions for each emission

point for each consecutive 365-day period as specified in Condition 5.A.4 (Ref.: PSD Construction Permit issued May 29, 2002, and 11 Miss. Admin. Code Pt. 2, R. 6.3.A(1).)

- 5.C.2 For Emission Points AA-001, AA-002, and AA-003, the permittee shall submit semi-annual reports providing the summary of emissions in tons/year of NO<sub>x</sub> based on CEMS data for each consecutive 365-day rolling total as specified in Condition 5.A.4. (Ref.: PSD Construction Permit issued May 29, 2002)
- 5.C.3 For Emission Points AA-001, AA-002, and AA-003, the permittee shall submit annual reports summarizing the SO<sub>2</sub> emissions by January 31 of each calendar year. (Ref.: PSD Construction Permit issued May 29, 2002)
- 5.C.4 For Emission Points AA-001, AA-002, and AA-003, the permittee shall submit written reports of all required stack test results within sixty (60) days of the date a test is performed. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.A(3).)
- 5.C.5 For Emission Point AA-007, the permittee shall submit semi-annual reports summarizing the hours of operation on a monthly basis and on a 12-month rolling total as specified in Condition 5.A.4. (Ref.: PSD Construction Permit issued May 29, 2002)
- 5.C.6 For Emission Point AA-007, the permittee shall report each instance in which the management practices were not met. These instances are deviations and must be reported within five (5) business days in accordance with Condition 5.A.5.

If the engine was operating during an emergency and it was not possible to shut down the engine to perform the management practices or if performing them on the required schedule posed an unacceptable risk under Federal, State, or local law at the time of the required scheduled maintenance activity, the management practices can be delayed until the emergency is over or the unacceptable risk has abated. The permittee shall report such a failure to complete the management practice in a timely manner and shall also document the specific conditions for which the management practices were delayed. (Ref.: 40 CFR 63.6640(b) and Footnote 2 to Table 2d)

## **SECTION 6. ALTERNATIVE OPERATING SCENARIOS**

6.1 None permitted.

## SECTION 7. TITLE VI REQUIREMENTS

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

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

persons selling class I or class II refrigerants or offering class I or class II refrigerants for sale, and persons purchasing class I or class II refrigerants.

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

## **SECTION 8. ACID RAIN**

For Emission Points AA-001, AA-002, and AA-003, the permittee shall comply with all requirements of the Phase II Acid Rain Permit attached in Appendix C of this permit. All conditions of the Phase II Acid Rain Permit are effective from February 5, 2018 through January 31, 2023; however, these conditions may be revised by the MDEQ during the permitting period.

Emission Points AA-001, AA-002, and AA-003, are affected units under the Acid Rain Program as specified in 40 CFR Parts 72-78. However, these units are natural gas fired and are therefore not subject to the NO<sub>x</sub> requirements outlined in 40 CFR Part 76. Additionally, these units are not listed in 40 CFR Part 73, Tables 2, 3 or 4, and have not been allocated any SO<sub>2</sub> allowances. (Ref.: Acid Rain Program Regulations, 40 CFR Parts 72-78)

## SECTION 9. CROSS-STATE AIR POLLUTION RULE

### 9.1 Description of Transport Rule (TR) Monitoring Provisions

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

Unit ID: Emission Points AA-001, AA-002, and AA-003					
Parameter	Continuous emission monitoring system or systems (CEMS) requirements pursuant to 40 CFR part 75, subpart B (for SO <sub>2</sub> monitoring) and 40 CFR part 75, subpart H (for NO <sub>x</sub> monitoring)	Excepted monitoring system requirements for gas- and oil-fired units pursuant to 40 CFR part 75, appendix D	Excepted monitoring system requirements for gas- and oil-fired peaking units pursuant to 40 CFR part 75, appendix E	Low Mass Emissions excepted monitoring (LME) requirements for gas- and oil-fired units pursuant to 40 CFR 75.19	EPA-approved alternative monitoring system requirements pursuant to 40 CFR part 75, subpart E
SO <sub>2</sub>		X			
NO <sub>x</sub>	X				
Heat Input		X			

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

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

9.4 The permittee that wants to use an alternative monitoring system must submit to the Administrator a petition requesting approval of the alternative monitoring system in accordance with 40 CFR part 75, subpart E and 40 CFR 75.66 and 97.535. The Administrator's response approving or disapproving any petition for an alternative

monitoring system is available on the EPA's website at <http://www.epa.gov/airmarkets/emissions/petitions.html>.

- 9.5 The permittee that wants to use an alternative to any monitoring, recordkeeping, or reporting requirement under 40 CFR 97.530 through 97.534 must submit to the Administrator a petition requesting approval of the alternative in accordance with 40 CFR 75.66 and 97.535. The Administrator's response approving or disapproving any petition for an alternative to a monitoring, recordkeeping, or reporting requirement is available on EPA website at <http://www.epa.gov/airmarkets/emissions/petitions.html>.
- 9.6 The descriptions of monitoring applicable to the unit included above meet the requirement of 40 CFR 97.530 through 97.534, and therefore minor permit modification procedures, in accordance with 40 CFR 70.7(e)(2)(i)(B) or 71.7(e)(1)(i)(B), may be used to add to or change this unit's monitoring system description.
- 9.7 TR NO<sub>x</sub> Ozone Season Trading Program Requirements (40 CFR 97.506)
- (a) Designated representative requirements - The permittee shall comply with the requirement to have a designated representative, and may have an alternate designated representative, in accordance with 40 CFR 97.513 through 97.518.
  - (b) Emissions monitoring, reporting, and recordkeeping requirements.
    - (1) The permittee, and the designated representative, of each TR NO<sub>x</sub> Ozone Season source and each TR NO<sub>x</sub> Ozone Season unit at the source shall comply with the monitoring, reporting, and recordkeeping requirements of 40 CFR 97.530 (general requirements, including installation, certification, and data accounting, compliance deadlines, reporting data, prohibitions, and long-term cold storage), 97.531 (initial monitoring system certification and recertification procedures), 97.532 (monitoring system out-of-control periods), 97.533 (notifications concerning monitoring), 97.534 (recordkeeping and reporting, including monitoring plans, certification applications, quarterly reports, and compliance certification), and 97.535 (petitions for alternatives to monitoring, recordkeeping, or reporting requirements).
    - (2) The emissions data determined in accordance with 40 CFR 97.530 through 97.535 shall be used to calculate allocations of TR NO<sub>x</sub> Ozone Season allowances under 40 CFR 97.511(a)(2) and (b) and 97.512 and to determine compliance with the TR NO<sub>x</sub> Ozone Season emissions limitation and assurance provisions under paragraph (c) below, provided that, for each monitoring location from which mass emissions are reported, the mass emissions amount used in calculating such allocations and determining such compliance shall be the mass emissions amount for the monitoring location determined in accordance with 40 CFR 97.530 through 97.535 and rounded

to the nearest ton, with any fraction of a ton less than 0.50 being deemed to be zero.

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

(1) TR NO<sub>x</sub> Ozone Season emissions limitation.

- (i) As of the allowance transfer deadline for a control period in a given year, the owners and operators of each TR NO<sub>x</sub> Ozone Season source and each TR NO<sub>x</sub> Ozone Season unit at the source shall hold, in the source's compliance account, TR NO<sub>x</sub> Ozone Season allowances available for deduction for such control period under 40 CFR 97.524(a) in an amount not less than the tons of total NO<sub>x</sub> emissions for such control period from all TR NO<sub>x</sub> Ozone Season units at the source.
- (ii) If total NO<sub>x</sub> emissions during a control period in a given year from the TR NO<sub>x</sub> Ozone Season units at a TR NO<sub>x</sub> Ozone Season source are in excess of the TR NO<sub>x</sub> Ozone Season emissions limitation set forth in paragraph (c)(1)(i) above, then:
  - (A) The owners and operators of the source and each TR NO<sub>x</sub> Ozone Season unit at the source shall hold the TR NO<sub>x</sub> Ozone Season allowances required for deduction under 40 CFR 97.524(d); and
  - (B) The owners and operators of the source and each TR NO<sub>x</sub> Ozone Season unit at the source shall pay any fine, penalty, or assessment or comply with any other remedy imposed, for the same violations, under the Clean Air Act, and each ton of such excess emissions and each day of such control period shall constitute a separate violation of 40 CFR part 97, subpart BBBBBB and the Clean Air Act.

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

- (i) If total NO<sub>x</sub> emissions during a control period in a given year from all TR NO<sub>x</sub> Ozone Season units at TR NO<sub>x</sub> Ozone Season sources in the state (and Indian country within the borders of such state) exceed the state assurance level, then the owners and operators of such sources and units in each group of one or more sources and units having a common designated representative for such control period, where the common designated representative's share of such NO<sub>x</sub> emissions during such control period exceeds the common designated representative's assurance level for the state and such control period, shall hold (in the assurance account established for the owners and operators of such group) TR NO<sub>x</sub> Ozone Season allowances available for deduction for

such control period under 40 CFR 97.525(a) in an amount equal to two times the product (rounded to the nearest whole number), as determined by the Administrator in accordance with 40 CFR 97.525(b), of multiplying—

- (A) The quotient of the amount by which the common designated representative's share of such NO<sub>x</sub> emissions exceeds the common designated representative's assurance level divided by the sum of the amounts, determined for all common designated representatives for such sources and units in the state (and Indian country within the borders of such state) for such control period, by which each common designated representative's share of such NO<sub>x</sub> emissions exceeds the respective common designated representative's assurance level; and
  - (B) The amount by which total NO<sub>x</sub> emissions from all TR NO<sub>x</sub> Ozone Season units at TR NO<sub>x</sub> Ozone Season sources in the state and Indian country within the borders of such state) for such control period exceed the state assurance level.
- (ii) The permittee shall hold the TR NO<sub>x</sub> Ozone Season allowances required under paragraph 93.7 (c)(2)(i) above, as of midnight of November 1 (if it is a business day), or midnight of the first business day thereafter (if November 1 is not a business day), immediately after such control period.
  - (iii) Total NO<sub>x</sub> emissions from all TR NO<sub>x</sub> Ozone Season units at TR NO<sub>x</sub> Ozone Season sources in the state (and Indian country within the borders of such state) during a control period in a given year exceed the state assurance level if such total NO<sub>x</sub> emissions exceed the sum, for such control period, of the State NO<sub>x</sub> Ozone Season trading budget under 40 CFR 97.510(a) and the state's variability limit under 40 CFR 97.510(b).
  - (iv) It shall not be a violation of 40 CFR part 97, subpart BBBBBB or of the Clean Air Act if total NO<sub>x</sub> emissions from all TR NO<sub>x</sub> Ozone Season units at TR NO<sub>x</sub> Ozone Season sources in the state (and Indian country within the borders of such state) during a control period exceed the state assurance level or if a common designated representative's share of total NO<sub>x</sub> emissions from the TR NO<sub>x</sub> Ozone Season units at TR NO<sub>x</sub> Ozone Season sources in the state (and Indian country within the borders of such state) during a control period exceeds the common designated representative's assurance level.

- (v) To the extent the permittee fails to hold TR NO<sub>x</sub> Ozone Season allowances for a control period in a given year in accordance with paragraphs 9.7(c)(2)(i) through (iii) above,
  - (A) The permittee shall pay any fine, penalty, or assessment or comply with any other remedy imposed under the Clean Air Act; and
  - (B) Each TR NO<sub>x</sub> Ozone Season allowance that the permittee fails to hold for such control period in accordance with paragraphs 9.7(c)(2)(i) through (iii) above and each day of such control period shall constitute a separate violation of 40 CFR part 97, subpart BBBBB and the Clean Air Act.
- (3) Compliance periods.
  - (i) A TR NO<sub>x</sub> Ozone Season unit shall be subject to the requirements under paragraph 9.7(c)(1) above for the control period starting on the later of May 1, 2015 or the deadline for meeting the unit's monitor certification requirements under 40 CFR 97.530(b) and for each control period thereafter.
  - (ii) A TR NO<sub>x</sub> Ozone Season unit shall be subject to the requirements under paragraph (c)(2) above for the control period starting on the later of May 1, 2017 or the deadline for meeting the unit's monitor certification requirements under 40 CFR 97.530(b) and for each control period thereafter.
- (4) Vintage of allowances held for compliance.
  - (i) A TR NO<sub>x</sub> Ozone Season allowance held for compliance with the requirements under paragraph 9.7(c)(1)(i) above for a control period in a given year must be a TR NO<sub>x</sub> Ozone Season allowance that was allocated for such control period or a control period in a prior year.
  - (ii) A TR NO<sub>x</sub> Ozone Season allowance held for compliance with the requirements under paragraphs 9.7(c)(1)(ii)(A) and (2)(i) through (iii) above for a control period in a given year must be a TR NO<sub>x</sub> Ozone Season allowance that was allocated for a control period in a prior year or the control period in the given year or in the immediately following year.
- (5) Allowance Management System requirements. Each TR NO<sub>x</sub> Ozone Season allowance shall be held in, deducted from, or transferred into, out of, or between Allowance Management System accounts in accordance with 40 CFR part 97, subpart BBBBB.

- (6) Limited authorization. A TR NO<sub>x</sub> Ozone Season allowance is a limited authorization to emit one ton of NO<sub>x</sub> during the control period in one year. Such authorization is limited in its use and duration as follows:
    - (i) Such authorization shall only be used in accordance with the TR NO<sub>x</sub> Ozone Season Trading Program; and
    - (ii) Notwithstanding any other provision of 40 CFR part 97, subpart BBBBB, the Administrator has the authority to terminate or limit the use and duration of such authorization to the extent the Administrator determines is necessary or appropriate to implement any provision of the Clean Air Act.
  - (7) Property right. A TR NO<sub>x</sub> Ozone Season allowance does not constitute a property right.
- (d) Title V permit revision requirements.
- (1) No title V permit revision shall be required for any allocation, holding, deduction, or transfer of TR NO<sub>x</sub> Ozone Season allowances in accordance with 40 CFR part 97, subpart BBBBB.
  - (2) This permit incorporates the TR emissions monitoring, recordkeeping and reporting requirements pursuant to 40 CFR 97.530 through 97.535, and the requirements for a continuous emission monitoring system (pursuant to 40 CFR part 75, subparts B and H), an excepted monitoring system (pursuant to 40 CFR part 75, appendices D and E), a low mass emissions excepted monitoring methodology (pursuant to 40 CFR 75.19), and an alternative monitoring system (pursuant to 40 CFR part 75, subpart E). Therefore, the Description of TR Monitoring Provisions table for units identified in this permit may be added to, or changed, in this title V permit using once permit modification procedures in accordance with 40 CFR 97.506(d)(2) and 70.7(e)(2)(i)(B) or 71.7(e)(1)(i)(B).
- (e) Additional recordkeeping and reporting requirements.
- (1) Unless otherwise provided, the permittee of each TR NO<sub>x</sub> Ozone Season source and each TR NO<sub>x</sub> Ozone Season unit at the source shall keep on site at the source each of the following documents (in hardcopy or electronic format) for a period of 5 years from the date the document is created. This period may be extended for cause, at any time before the end of 5 years, in writing by the Administrator.
    - (i) The certificate of representation under 40 CFR 97.516 for the designated representative for the source and each TR NO<sub>x</sub> Ozone

Season unit at the source and all documents that demonstrate the truth of the statements in the certificate of representation; provided that the certificate and documents shall be retained on site at the source beyond such 5-year period until such certificate of representation and documents are superseded because of the submission of a new certificate of representation under 40 CFR 97.516 changing the designated representative.

- (ii) All emissions monitoring information, in accordance with 40 CFR part 97, subpart BBBBB.
    - (iii) Copies of all reports, compliance certifications, and other submissions and all records made or required under, or to demonstrate compliance with the requirements of, the TR NO<sub>x</sub> Ozone Season Trading Program.
  - (2) The designated representative of a TR NO<sub>x</sub> Ozone Season source and each TR NO<sub>x</sub> Ozone Season unit at the source shall make all submissions required under the TR NO<sub>x</sub> Ozone Season Trading Program, except as provided in 40 CFR 97.518. This requirement does not change, create an exemption from, or otherwise affect the responsible official submission requirements under a title V operating permit program in 40 CFR parts 70 and 71.
- (f) Liability.
- (1) Any provision of the TR NO<sub>x</sub> Ozone Season Trading Program that applies to a TR NO<sub>x</sub> Ozone Season source or the designated representative of a TR NO<sub>x</sub> Ozone Season source shall also apply to the permittee of such source and of the TR NO<sub>x</sub> Ozone Season units at the source.
  - (2) Any provision of the TR NO<sub>x</sub> Ozone Season Trading Program that applies to a TR NO<sub>x</sub> Ozone Season unit or the designated representative of a TR NO<sub>x</sub> Ozone Season unit shall also apply to the permittee of such unit.
- (g) Effect on other authorities - No provision of the TR NO<sub>x</sub> Ozone Season Trading Program or exemption under 40 CFR 97.505 shall be construed as exempting or excluding the permittee, and the designated representative, of a TR NO<sub>x</sub> Ozone Season source or TR NO<sub>x</sub> Ozone Season unit from compliance with any other provision of the applicable, approved state implementation plan, a federally enforceable permit, or the Clean Air Act.
- (h) Effect on units in Indian country. Notwithstanding the provisions of paragraphs (a) through (g) above, paragraphs (a) through (g) shall be deemed not to impose any requirements on any source or unit, or any owner, operator, or designated representative with regards to any source or unit, in Indian country within the borders of the state.

## APPENDIX A

### List of Abbreviations Used In this Permit

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

## **APPENDIX B**

### **LIST OF REGULATIONS REFERENCED IN THIS PERMIT**

**The full text of the regulations referenced in this permit may be found on-line at <http://www.deq.state.us> and <http://ecfr.gpoaccess.gov> or the Mississippi Department of Environmental Quality will provide a copy upon request. A list of regulations referenced in this permit is shown below:**

11 Miss. Admin. Code, Part 2, Ch. 1. – Air Emission Regulations for the Prevention, Abatement, and Control of Air Contaminants (Amended November 10, 2016)

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. 6. – Air Emission Operating Permit Regulations for the Purposes of Title V of the Federal Clean Air Act (Amended June 28, 2012)

40 CFR 82, Protection of Stratospheric Ozone

40 CFR 60, Subpart GG – Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units

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

40 CFR 72-78 – Acid Rain Program General Provisions

40 CFR 97, Subpart BBBBB, CSAPR NO<sub>x</sub> Ozone Season Group 1 Trading Program

**APPENDIX C**  
**PHASE II ACID RAIN PERMIT**

## **PHASE II ACID RAIN PERMIT**

Issued to: Silver Creek Generating Plant  
Operated by: Cooperative Energy  
ORIS code: 7988  
Effective: February 5, 2018 to January 31, 2023

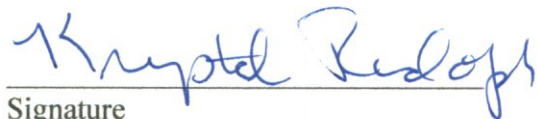
### **Summary of Previous Actions:**

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

1) Draft permit for public and EPA comment.	November 15, 2002
2) Final Permit issued.	January 8, 2003
3) Draft Permit sent to Public Notice and EPA Review.	April 23, 2009
4) Permit finalized and issued.	June 24, 2009
5) Draft renewal Title V Permit for public and EPA review.	December 19, 2017

### **Present Action:**

6) Permit finalized and issued	February 5, 2018
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Signature

FEB 05 2018

Date

Krystal Rudolph, P.E.  
Chief, Environmental Permits Division  
Mississippi Department of Environmental Quality  
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## **PHASE II ACID RAIN PERMIT**

Issued to: Silver Creek Generating Plant  
Operated by: Cooperative Energy  
ORIS code: 7988  
Effective: February 5, 2018 to January 31, 2023

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

- 1) Statement of Basis.
  - 2) SO<sub>2</sub> allowances allocated under this permit and NO<sub>x</sub> requirements for each affected unit.
  - 3) Comments, notes and justifications regarding permit decisions and changes made to the permit application forms during the review process, and any additional requirements or conditions.
  - 4) The permit application submitted for this source. The owners and operators of the source must comply with the standard requirements and special provisions set forth in the application.
- 

### **1) STATEMENT OF BASIS:**

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

### **2) SO<sub>2</sub> ALLOWANCE ALLOCATIONS AND NO<sub>x</sub> REQUIREMENTS FOR EACH AFFECTED UNIT:**

		2017	2018	2019	2020	2021	2022
AA-001	<b>SO<sub>2</sub> allowances, under Tables 2, 3, or 4 of 40 CFR Part 73.</b>	N/A	N/A	N/A	N/A	N/A	N/A
AA-002		N/A	N/A	N/A	N/A	N/A	N/A
AA-003		N/A	N/A	N/A	N/A	N/A	N/A
AA-001 AA-002 AA-003	<b>NO<sub>x</sub> limit</b>	N/A					

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

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

**4) PHASE II PERMIT APPLICATION:**

Attached



SEP 08 2015

## Acid Rain Permit Application

ORIGINAL

### STEP 1

Silver Creek Generating Plant	MS	7988
Facility (Source) Name	State	Plant Code

## STEP 2

[illegible]

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Dept. of Environmental Quality

Facility (Source) Name (from STEP 1) 7988

### Permit Requirements

#### STEP 3

Read the standard requirements.

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

### Monitoring Requirements

- (1) The owners and operators and, to the extent applicable, designated representative of each affected source and each affected unit at the source shall comply with the monitoring requirements as provided in 40 CFR part 75.
- (2) The emissions measurements recorded and reported in accordance with 40 CFR part 75 shall be used to determine compliance by the source or unit, as appropriate, with the Acid Rain emissions limitations and emissions reduction requirements for sulfur dioxide and nitrogen oxides under the Acid Rain Program.
- (3) The requirements of 40 CFR part 75 shall not affect the responsibility of the owners and operators to monitor emissions of other pollutants or other emissions characteristics at the unit under other applicable requirements of the Act and other provisions of the operating permit for the source.

### Sulfur Dioxide Requirements

- (1) The owners and operators of each source and each affected unit at the source shall:
  - (i) Hold allowances, as of the allowance transfer deadline, in the source's compliance account (after deductions under 40 CFR 73.34(c)), not less than the total annual emissions of sulfur dioxide for the previous calendar year from the affected units at the source; and
  - (ii) Comply with the applicable Acid Rain emissions limitations for sulfur dioxide.
- (2) Each ton of sulfur dioxide emitted in excess of the Acid Rain emissions limitations for sulfur dioxide shall constitute a separate violation of the Act.
- (3) An affected unit shall be subject to the requirements under paragraph (1) of the sulfur dioxide requirements as follows:
  - (i) Starting January 1, 2000, an affected unit under 40 CFR 72.6(a)(2); or
  - (ii) Starting on the later of January 1, 2000 or the deadline for monitor certification under 40 CFR part 75, an affected unit under 40 CFR 72.6(a)(3).

Facility (Source) Name (from STEP 1) 7988

#### Sulfur Dioxide Requirements, Cont'd.

##### STEP 3, Cont'd.

- (4) Allowances shall be held in, deducted from, or transferred among Allowance Tracking System accounts in accordance with the Acid Rain Program.
- (5) An allowance shall not be deducted in order to comply with the requirements under paragraph (1) of the sulfur dioxide requirements prior to the calendar year for which the allowance was allocated.
- (6) An allowance allocated by the Administrator under the Acid Rain Program is a limited authorization to emit sulfur dioxide in accordance with the Acid Rain Program. No provision of the Acid Rain Program, the Acid Rain permit application, the Acid Rain permit, or an exemption under 40 CFR 72.7 or 72.8 and no provision of law shall be construed to limit the authority of the United States to terminate or limit such authorization.
- (7) An allowance allocated by the Administrator under the Acid Rain Program does not constitute a property right.

#### Nitrogen Oxides Requirements

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

#### Excess Emissions Requirements

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

#### Recordkeeping and Reporting Requirements

- (1) Unless otherwise provided, the owners and operators of the source and each affected unit at the source shall keep on site at the source each of the following documents for a period of 5 years from the date the document is created. This period may be extended for cause, at any time prior to the end of 5 years, in writing by the Administrator or permitting authority:
  - (i) The certificate of representation for the designated representative for the source and each affected unit at the source and all documents that demonstrate the truth of the statements in the certificate of representation, in accordance with 40 CFR 72.24; provided that the certificate and documents shall be retained on site at the source beyond such 5-year period until such documents are superseded because of the submission

Facility (Source) Name (from STEP 1) 7988

of a new certificate of representation changing the designated representative;

STEP 3, Cont'd.

**Recordkeeping and Reporting Requirements, Cont'd.**

- (ii) All emissions monitoring information, in accordance with 40 CFR part 75, provided that to the extent that 40 CFR part 75 provides for a 3-year period for recordkeeping, the 3-year period shall apply.
  - (iii) Copies of all reports, compliance certifications, and other submissions and all records made or required under the Acid Rain Program; and,
  - (iv) Copies of all documents used to complete an Acid Rain permit application and any other submission under the Acid Rain Program or to demonstrate compliance with the requirements of the Acid Rain Program.
- (2) The designated representative of an affected source and each affected unit at the source shall submit the reports and compliance certifications required under the Acid Rain Program, including those under 40 CFR part 72 subpart I and 40 CFR part 75.

**Liability**

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

**Effect on Other Authorities**

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

- (1) Except as expressly provided in title IV of the Act, exempting or excluding the owners and operators and, to the extent applicable, the designated representative of an affected source or affected unit from compliance with

Facility (Source) Name (from STEP 1) 7988

any other provision of the Act, including the provisions of title I of the Act relating

## STEP 3, Cont'd.

Effect on Other Authorities, Cont'd.

to applicable National Ambient Air Quality Standards or State Implementation Plans;

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

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

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

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

**STEP 4**  
Read the  
certification  
statement,  
sign, and date.

Certification

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

Name	Nathan L. Brown	
Signature	<i>Nathan L. Brown</i>	Date 9/1/15