STATE OF MISSISSIPPI
AIR POLLUTION CONTROL
TITLE V PERMIT

TO OPERATE AIR EMISSIONS EQUIPMENT

THIS CERTIFIES THAT

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

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

Permit Issued: _____

Effective Date: As specified herein.

MISSISSIPPI ENVIRONMENTAL QUALITY PERMIT BOARD

_____

AUTHORIZED SIGNATURE
MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY

Expires:[Date not to exceed 5 yrs from issuance] **Permit No.: 1360-00035**

Draft/Proposed

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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 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-003	868.6 MMBtu/hr Natural Gas/#2 Fuel Oil Fired Boiler (Unit No. 3 Boiler)
AA-004	1.6 MMBtu/hr (173.5 HP/469.4 kW) Diesel Fired Emergency Fire Pump Engine (CAT C6.6 ACERT™)
AA-005	1,547 MMBtu/hr Natural Gas/#2 Fuel Oil Fired Simple Cycle Combustion Turbine (SCCT) equipped with Dry Low NO_x Burners and Water-Steam Injection (Unit 4 SCCT)
AA-006	1,143 MMBtu/hr Natural Gas Fired Simple Cycle Combustion Turbine equipped with Dry Low NO_x Burners and inlet combustion air evaporative cooling (Unit 5 SCCT)
AA-007	3.6 MMBtu/hr Natural Gas Fired Heater
AA-008	1,260 MMBtu/hr (103 MW) Natural Gas Fired Simple Cycle Combustion Turbine equipped with Dry Low NO_x Burners (Unit 6 SCCT)
AA-009	1,260 MMBtu/hr (103 MW) Natural Gas Fired Simple Cycle Combustion Turbine equipped with Dry Low NO_x Burners (Unit 7 SCCT)
AA-010	Natural Gas Fired Combined Cycle Combustion Turbine (AA-008 Turbine) equipped with a Heat Recovery Steam Generator (HRSG), Dry Low NO_x Burners, and Selective Catalytic Reduction (SCR). The HRSG is equipped with a 267 MMBtu/hr Duct Burner. Total Heat Input 1,527 MMBtu/hr. (Unit 6 CCCT)
AA-011	Natural Gas Fired Combined Cycle Combustion Turbine (AA-009 Turbine) equipped with a Heat Recovery Steam Generator (HRSG), Dry Low NO_x Burners, and Selective Catalytic Reduction (SCR). The HRSG is equipped with a 267 MMBtu/hr Duct Burner. Total Heat Input 1,527 MMBtu/hr. (Unit 7 CCCT)
AA-012	9.8 MMBtu/hr Natural Gas Fired Pre-heater
AA-013	9.8 MMBtu/hr Natural Gas Fired Pre-heater
AA-014	0.88 MMBTU/hr (82kW) Diesel Fired Emergency Generator (Detroit Diesel - Mfr. Date 1969)
AA-015	9.45 MMBTU/hr (1,474 HP/1,000 kW) Diesel Fired Emergency Generator (CAT C32)

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-003	11 Miss. Admin. Code Pt. 2, R. 1.3.D(1)(b)	3.B.1	PM (filterable only)	$E = 0.8808*(I)^{-0.1667}$
	11 Miss. Admin. Code Pt. 2, R.1.4.A(1).	3.B.2	SO_2	4.8 lb/MMBtu
	Prevention of Significant Deterioration (PSD) Construction Permit Issued April 9, 1996	3.B.3	Fuel Restriction	Sulfur Content of fuel ≤0.15% by weight
AA-004 AA-014 AA-015	11 Miss. Admin. Code Pt. 2, R. 1.3.D(1)(a).	3.B.4	PM (filterable only)	0.6 lb/MMBTU
	NESHAP for Stationary Reciprocating Internal Combustion Engines, 40 CFR 63, Subpart ZZZZ, 63.6580, 63.6585(a) and (c), 63.6590(a)(2)(iii) and (c)(1)	3.B.5	HAP	Applicability
AA-004 AA-015	Standards of Performance for Stationary Compression Ignition Internal Combustion Engines, 40 CFR 60, Subpart IIII, 60.4200(a)(2)(i)	3.B.6	NMHC + NO_x CO PM	Applicability
	40 CFR 60.4205(b), 60.4202(a)(2), 60.4206, 60.4211(a)(1)-(3) and (c), 40 CFR 89.112(a), 89.113(a), and Miss. Admin. Code Pt. 2, R. 6.3.A(3)	3.B.7		**AA-004** NMHC + NO_x < 4.0 g/kW-hr CO < 3.5 g/kW-hr PM < 0.20 g/kW-hr **AA-015** NMHC + NO_x < 6.4 g/kW-hr CO < 3.5 g/kW-hr PM < 0.20 g/kW-hr
	40 CFR 60.4207(b) and 40 CFR 80.510(b)	3.B.8	Fuel Restriction	Sulfur content and either cetane index or aromatic content
	40 CFR 60.4209(a)	3.B.9	Operating Hours	Install and maintain hour meters
	40 CFR 60.4211(f)(1)-(3) and 60.4219	3.B.10	Operating Restriction	Emergency Operations
AA-014	40 CFR 63, Subpart ZZZZ, 63.6640(f)(1), (2), and (4) and 63.6675	3.B.11	HAP	Emergency Operations
	40 CFR 63.6603(a), 63.6625(i), and Table 2d	3.B.12		Operating and maintenance requirements

Emission Point(s)	Applicable Requirement	Condition Number(s)	Pollutant/ Parameter	Limit/Standard
	40 CFR 63.6605 (a) and (b)	3.B.13		General compliance requirements
	40 CFR 63.6625(e)(3), (f), and (h), 63.6640(a), and Tables 2d and 6	3.B.14		Maintenance plan; hour meter; minimize startup
AA-005 AA-006	Standards of Performance for Stationary Gas Turbines, 40 CFR 60, Subpart GG, 40 CFR 60.330	3.B.15	NO_x SO_2	Applicability
	40 CFR 60.332(a)(1), 60.332(b), and 60.332(f)	3.B.16	NO_x	STD = 0.0075(14.4/Y) + F
	40 CFR 60.333(b)	3.B.17	SO_2	Fuel sulfur content ≤0.8 percent by weight
AA-005 **(while firing natural gas)**	PSD Construction Permit Issued April 9, 1996 And 11 Miss. Admin. Code Pt. 2, R. 6.3.A(1).	3.B.18	PM (filterable only)	8.1 lb/hr not to exceed 16.5 TPY
			SO_2	1.0 ppmdv at 15% O_2 at 100 percent load; not to exceed 0.98 TPY
			NO_x	15.0 ppmdv at 15% O_2 at 100 percent load; not to exceed 199.5 TPY
				25.0 ppmdv at 15% O_2 during periods of power augmentation
			CO	25.0 ppmdv at 15% O_2 at 100 percent load; not to exceed 1,587.0 TPY
			VOC	4.0 ppmdv at 15% O_2 at 100 percent load; not to exceed 12.0 TPY
		3.B.19	Operating Restriction	≤ 3,000 hours of operation in any rolling 365-day period
		3.B.3	Fuel Restriction	Sulfur content of fuel ≤ 0.15% by weight
AA-005 **(while firing fuel oil)**	PSD Construction Permit Issued April 9, 1996 And 11 Miss. Admin. Code Pt. 2, R. 6.3.A(1).	3.B.20	PM (filterable only)	195.4 lb/hr at 100 percent load; not to exceed 47.0 TPY
			PM_{10} (filterable only)	195.4 lb/hr at 100 percent load; not to exceed 47.0 TPY
			SO_2	64.0 ppmdv at 15% O_2 at 100 percent load; not to exceed 39.8 TPY
			NO_x	42.0 ppmdv at 15% O_2 at 100 percent load; not

Emission Point(s)	Applicable Requirement	Condition Number(s)	Pollutant/ Parameter	Limit/Standard
				exceed 181.1 TPY
			CO	90.0 ppmdv at 15% O_2 at 100 percent load; not to exceed 365.8 TPY
			VOC	30.0 ppmdv at 15% O_2 at 100 percent load; not to exceed 42.3 TPY
		3.B.19	Operating Restriction	≤ 450 hours of operation burning fuel oil in any rolling 365-day period
		3.B.3	Fuel Restriction	Sulfur content of fuel ≤ 0.15% by weight
AA-006	PSD Construction Permit Issued December 10, 2004, and Modified December 17, 2009 And 11 Miss. Admin. Code Pt. 2, R. 6.3.A(1).	3.B.21	CO	20 ppmdv at 15% O_2; not to exceed 54.0 lb/hr, both limits are based on 3-hour average; not to exceed 148.1 TPY
			NO_x	9 ppmdv at 15% O_2; not to exceed 36.0 lb/hr, both limits are based on 3-hour average; not to exceed 99.0 TPY
			PM/PM_{10} (filterable only)	10.0 lb/hr, not to exceed 27.5 TPY
			Opacity	≤ 10%
		3.B.22	Startup/ Shutdown	Not to exceed 60 minutes for either
		3.B.23	Fuel Restriction	Limited to natural gas only with sulfur content ≤ 2 grains per 100 dry SCF.
		3.B.24	Operating Restriction	Limited to ≤ 5,500 hours per year (365-day rolling total)
AA-007	PSD Construction Permit Issued December 10, 2004, and Modified December 17, 2009	3.B.25	Fuel Restriction	Limited to natural gas only
	11 Miss. Admin. Code Pt. 2, R.1.4.A(1).	3.B.2	SO_2	4.8 lb/MMBtu
	11 Miss. Admin. Code Pt. 2, R. 1.3.D(1)(a).	3.B.4	PM (filterable only)	0.6 lb/MMBTU
AA-008 AA-009 AA-010	Standards of Performance for Stationary Combustion Turbines, 40 CFR 60, Subpart KKKK, 60.4305, 60.4315 and	3.B.26	NO_x SO_2	Applicability

Emission Point(s)	Applicable Requirement	Condition Number(s)	Pollutant/ Parameter	Limit/Standard
AA-011	60.4333(a)			
	40 CFR 60.4320(a) and Table 1 of Subpart KKKK	3.B.27	NO_x	15 ppmdv at 15% O_2
	40 CFR 60.4330(a)(2)	3.B.28	SO_2	Fuel sulfur emissions ≤ 0.060 lb SO_2/MMBtu heat input
AA-008 AA-009 **(Simple Cycle Operation)**	PSD Construction Permit Issued August 17, 2010 And 11 Miss. Admin. Code Pt. 2, R. 6.3.A(1).	3.B.29	$PM/PM_{10}/PM_{2.5}$ (filterable only)	10 lb/hr (3-hr average); not to exceed 10.9 TPY (12-month rolling total including startup and shutdown)
			NO_x	9 ppmdv at 15% O_2 at 60 percent and greater load, not to exceed 36.0 lb/hr (1-hour average) and 43 TPY (12-month rolling total including startup and shutdown)
			CO	20.0 ppmdv at 15% O_2 at 80-100 percent load not to exceed 49.0 lb/hr (3-hour average); 85 ppmdv at 15% O_2 at 60-79 percent load not to exceed 117.0 lb/hr (3-hour average); 136.5 TPY (12-month rolling total including emissions at all loads and during startup/shutdown)
			Opacity	≤ 10%
		3.B.30	Operating Restriction	Each turbine limited to 2,000 hours of operation per year (12-month rolling total)
		3.B.31	Fuel Restriction	Limited to pipeline natural gas only.
AA-010 AA-011 **(Combined Cycle Operation)**	PSD Construction Permit Issued August 17, 2010 **With Duct Firing – Case 1** And 11 Miss. Admin. Code Pt. 2, R. 6.3.A(1).	3.B.32	$PM/PM_{10}/PM_{2.5}$ (filterable only)	16.8 lb/hr (3-hour average)
			NO_x	2 ppmdv at 15% O_2 not to exceed 11.4 lb/hr (1-hour average)
			CO	28.2 ppmdv at 15% O_2 not to exceed 67.0 lb/hr (3-hour average)
			Opacity	≤10%
		3.B.33	Operating Restriction	Duct burners shall only be fired during periods of the maximum capable combustion turbine output.
		3.B.34	Operating Restriction	Each turbine/HRSG with duct firing shall be limited to a heat input of 1,538.8 MMBtu/hr (HHV)

Emission Point(s)	Applicable Requirement	Condition Number(s)	Pollutant/ Parameter	Limit/Standard
	PSD Construction Permit Issued August 17, 2010 **No Duct Firing – Case 2** And 11 Miss. Admin. Code Pt. 2, R. 6.3.A(1).	3.B.35	$PM/PM_{10}/PM_{2.5}$ (filterable only)	16.8 lb/hr (3-hour average)
			NO_x	2 ppmdv at 15% O_2 at 60 percent and greater load not to exceed 11.4 lb/hr (1-hour average)
			CO	17.5 ppmdv at 15% O_2 at 100 percent load not to exceed 48.0 lb/hr (3-hour average); 44 ppmdv at 15% O_2 at 80-99 percent load not to exceed 88.0 lb/hr (3-hour average); 106 ppmdv at 15% O_2 at 60-79 percent load not to exceed 180.0 lb/hr (3-hour average)
			Opacity	≤ 10%
		3.B.36	Operating Restriction	Each turbine shall be limited to heat input of 1,260.0 MMBtu/hr (HHV)
	PSD Construction Permit Issued August 17, 2010 And 11 Miss. Admin. Code Pt. 2, R. 6.3.A(1). **Limits Applicable to Both Operating Cases**	3.B.37	$PM/PM_{10}/PM_{2.5}$ (filterable only)	74.4 TPY including operation at all loads, while duct firing, and startup, shutdown and combustion tuning
			NO_x	75.7 TPY including operation at all loads, while duct firing, and startup, shutdown and combustion tuning
			CO	831.5 TPY including operation at all loads, while duct firing, and startup, shutdown and combustion tuning
		3.B.38	Controls	All controls operational when turbines are operating in excess of 60 percent load
		3.B.31	Fuel Restriction	Limited to pipeline natural gas only.
AA-008 AA-009 AA-010 AA-011	PSD Construction Permit Issued August 17, 2010 And 11 Miss. Admin. Code Pt. 2, R. 6.3.A(1).	3.B.39	Startup/ Shutdown	Definitions and duration for each condition in the various operating modes
		3.B.40	Operating Restriction	Minimize emissions during startups and shutdowns
AA-012 AA-013	PSD Construction Permit Issued August 17, 2010	3.B.41	Operating/ Fuel/ Opacity Restriction	Heat Input limit; low-NO_x burners, fuel restriction, and opacity ≤ 10%

Emission Point(s)	Applicable Requirement	Condition Number(s)	Pollutant/ Parameter	Limit/Standard
	11 Miss. Admin. Code Pt. 2, R. 1.3.D(1)(a).	3.B.4	PM (filterable only)	0.6 lb/MMBTU
	11 Miss. Admin. Code Pt. 2, R.1.4.A(1).	3.B.2	SO_2	4.8 lb/MMBtu
AA-003 AA-005 AA-006 AA-008 **(includes AA-010)** AA-009 **(includes AA-011)**	Acid Rain Program, 40 CFR Parts 72-78	3.B.42	SO_2 NO_x	Permit and regulation requirements
AA-003 AA-005 AA-006 AA-008 **(includes AA-010)** AA-009 **(includes AA-011)**	Cross-State Air Pollution Rule (CSAPR), 40 CFR 97, Subpart BBBBB - NO_x Ozone Season Trading Program	3.B.43	NO_x	CSAPR Rule Requirements (See Section 9.0)

3.B.1 For Emission Point AA-003, the maximum permissible emission of ash and/or particulate matter 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-003, AA-007, AA-012, and AA-013, 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).)

3.B.3 For Emission Points AA-003 and AA-005, the permittee shall burn natural gas and #2 fuel oil only and neither shall contain sulfur in excess of 0.15 percent by weight. This sulfur content was used in the emissions modeling to establish the emission limits for Emission Point AA-005; therefore, the sulfur content of the fuel must not exceed 0.15

percent by weight. (Ref.: PSD Construction Permit issued April 9, 1996)

3.B.4 For Emission Points AA-004, AA-007, AA-012, AA-013, AA-014, and AA-015 the maximum permissible emission of ash and/or particulate matter from fossil fuel burning installations of less than 10 million BTU per hour heat input shall not exceed 0.6 pounds per million BTU per hour heat input. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 1.3.D(1)(a).)

3.B.5 Emission Points AA-004, AA-014, and AA-015 are 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 Points AA-004 and AA-015 are considered new compression ignition (CI), stationary RICE at an area source of HAP emissions. As such, the permittee shall comply with Subpart ZZZZ by complying with the applicable requirements of the Standards of Performance for Stationary Compression Ignition Internal Combustion Engines, 40 CFR 60, Subpart IIII.

Emission Point AA-014 is considered an existing emergency CI stationary RICE at an area source of HAP emissions and shall comply with all applicable requirements of Subpart ZZZZ. (Ref.: 40 CFR 63.6580, 63.6585(a) and (c), 63.6590(a)(1)(iii), (a)(2)(iii), and (c)(1))

3.B.6 Emission Points AA-004 and AA-015 are subject to the Standards of Performance for Stationary Compression Ignition Internal Combustion Engines, 40 CFR 60, Subpart IIII. (Ref.: 40 CFR 60.4200(a)(2)(i))

3.B.7 For Emission Points AA-004 and AA-015, the permittee shall certify that the engines do not exceed the emission standards for non-methane hydrocarbons and nitrogen oxides (NMHC+NO_x), carbon monoxide (CO), and particulate matter (PM) found in 40 CFR 89.112(a) and the opacity limits found in 40 CFR 89.113(a). The permittee shall operate and maintain the engines according to the manufacturer's emission related written instructions, change only those emission-related settings that are permitted by the manufacturer and meet the emission standards for the entire life of the engines. A copy of the engine's certification shall be kept on site for the life of the engine (Ref.: 40 CFR 60.4205(b), 60.4202(a)(2), 60.4206, 60.4211(a)(1)-(3) and (c), 40 CFR 89.112(a), 89.113(a), and Miss. Admin. Code Pt. 2, R. 6.3.A(3))

3.B.8 For Emission Points AA-004 and AA-015, the permittee shall use diesel fuel that has a maximum sulfur content of 15 ppm and either a minimum cetane index of 40 OR a maximum aromatic content of 35 volume percent. (Ref.: 40 CFR 60.4207(b) and 40 CFR 80.510(b))

3.B.9 For Emission Points AA-004 and AA-015, the permittee shall install and maintain a non-resettable hour meter on the engines. (Ref.: 40 CFR 60.4209(a))

3.B.10 For Emission Points AA-004 and AA-015, the engines shall be considered emergency engines under Subpart IIII provided the engines only operate in an emergency, during maintenance and testing, and during non-emergency situations for 50 hours per year as described in (c) below. If the engines do not operate according to (a) through (c) below, the engines will not be considered emergency engines and must meet all requirements for non-emergency engines.

(a) There is no limit on the use of the engines during emergency situations.

(b) The engines may operate for maintenance checks and readiness testing for a maximum of 100 hours per calendar year provided the tests are recommended.

(c) The engines may be operated for up to 50 hours per calendar year in non-emergency situations. The 50 hours of operation in non-emergency situations are counted as part of the 100 hours provided for in (b). Except as provided in 60.4211(f)(1)-(3)(i), the 50 hours per year for non-emergency situations cannot be used for peak shaving or non-emergency demand response, or to generate income for a facility to an electric grid or otherwise supply power as part of a financial arrangement with another entity.

(Ref.: 40 CFR 60.4211(f)(1)-(3) and 60.4219)

3.B.11 For Emission Point AA-014, the engine shall be considered an emergency stationary RICE under Subpart ZZZZ provided the engine only operates in an emergency, during maintenance and testing, and during non-emergency situations for 50 hours per year as described in (c) below. If the permittee does not operate the engine 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 an electric grid or otherwise supply power to an electric grid or otherwise supply power as part of a financial arrangement with another entity.

(Ref.: 40 CFR 63.6640(f)(1), (2), and (4) and 63.6675)

3.B.12 For Emission Point AA-014, 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.13 For Emission Point AA-014, 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.14 For Emission Point AA-014, 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)(3), (f), and (h), 63.6640(a), and Tables 2d and 6 of Subpart ZZZZ)

3.B.15 Emission Points AA-005 and AA-006 are subject to and shall comply with all applicable requirements of the Standards of Performance for Stationary Gas Turbines, 40 CFR 60, Subpart GG. (Ref.: 40 CFR 60.330)

3.B.16 For Emission Points AA-005 and AA-006, the permittee shall meet the NO_x emission limit established using the following equation:

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

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

3.B.17 For Emission Points AA-005 and AA-006, the permittee shall not burn any fuel which contains total sulfur in excess of 0.8 percent by weight. (Ref.: 40 CFR 60.333(b))

3.B.18 For Emission Point AA-005, the permittee shall meet the emission limits expressed in Table 3.B above when firing natural gas except during periods of startup, shutdown or combustion tuning[1]. However, the permittee shall meet the tons/year emission limits by including emissions during periods of startup, shutdown, and combustion tuning. The turbine is limited to 100 hours of operation per year during periods of power augmentation. (Ref.: PSD Construction Permit issued April 9, 1996, and 11 Miss. Admin. Code Pt. 2, R. 6.3.A(1).)

3.B.19 For Emission Point AA-005, the permittee shall not operate the turbine in excess of 3,000 hours during any consecutive 365-day period. Of that 3,000 hours, fuel oil may be fired for a maximum of 450 hours in the same 365-day period. (Ref.: PSD Construction Permit issued April 9, 1996)

3.B.20 For Emission Point AA-005, the permittee shall meet the emission limits expressed in Table 3.B above when firing fuel oil except during periods of startup, shutdown or combustion tuning. However, the permittee shall meet the tons/year emission limits by including emissions during periods of startup, shutdown, and combustion tuning. (Ref.: PSD Construction Permit issued April 9, 1996, and 11 Miss. Admin. Code Pt. 2, R. 6.3.A(1).)

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1 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_x and CO emissions.

3.B.21 For Emission Point AA-006, the permittee shall meet the emission limits expressed in Table 3.B above. (Ref.: PSD Construction Permit issued December 10, 2004)

3.B.22 For Emission Point AA-006, the permittee shall comply with the short-term ppmdv and lb/hr limits at all times except during periods of startup, shutdown, and combustion tuning. The permittee shall include emissions from startups, shutdowns, and combustion tuning when demonstrating compliance with the long-term TPY limits.

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

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

(Ref.: PSD Construction Permit issued December 10, 2004, and Modified December 17, 2009)

3.B.23 For Emission Point AA-006, the permittee shall not use any fuel other than natural gas. The permittee shall not burn any fuel which contains sulfur in excess of 2 grains per 100 dry standard cubic feet. (Ref.: PSD Construction Permit issued December 10, 2004)

3.B.24 For Emission Point AA-006, the permittee shall be limited to operating the turbine for no more than 5,500 hours per year on a 365-day rolling total. The total hours of operation shall include all time spent in startups and shutdowns. (Ref.: PSD Construction Permit issued December 10, 2004)

3.B.25 For Emission Point AA-007, the permittee shall not use any fuel other than natural gas. (Ref.: PSD Construction Permit issued December 10, 2004)

3.B.26 Emission Points AA-008, AA-009, AA-010, and AA-011 are subject to and shall comply with all applicable requirements of the Standards of Performance for Stationary Combustion Turbines, 40 CFR 60, Subpart KKKK. The permittee shall comply with the standards, monitoring requirements, test methods, procedures, and reporting requirements of Subpart KKKK.

The permittee must operate and maintain each combustion turbine, air pollution control equipment, and monitoring equipment in a manner consistent with good air pollution control practices for minimizing emissions at all times including during startup, shutdown, and malfunction. (Ref.: 40 CFR 60.4305, 60.4315, 60.4333(a), and PSD Construction Permit issued August 17, 2010)

3.B.27 For Emission Points AA-008, AA-009, AA-010, and AA-011, the permittee shall

comply with the NO_x emission standard of 15 ppmdv at 15 percent O_2. (Ref.: 40 CFR 60.4320(a) and Table 1 of Subpart KKKK)

3.B.28 For Emission Points AA-008, AA-009, AA-010, and AA-011, the permittee shall not fire any fuel containing potential sulfur emissions in excess of 0.060 lb SO_2/MMBtu heat input. (Ref.: 40 CFR 60.4330(a)(2))

3.B.29 For Emission Points AA-008 and AA-009 (**simple cycle combustion turbines**), the permittee shall meet the emission limits expressed in Table 3.B above. The permittee shall comply with the short-term ppmdv and lb/hr limits except during periods of startup, shutdown, and combustion tuning. Emissions from startups, shutdowns, and combustion tuning shall be included when demonstrating compliance with the long-term TPY limits. The long-term ton per year limits are based on a 12-month rolling total. (Ref.: PSD Construction Permit issued August 17, 2010, and 11 Miss. Admin. Code Pt. 2, R. 6.3.A(1).)

3.B.30 For Emission Points AA-008 and AA-009, the permittee shall be limited to operating each combustion turbine for no more than 2,000 hours per year on a 12-month rolling total. (Ref.: PSD Construction Permit issued August 17, 2010)

3.B.31 For Emission Points AA-008, AA-009, AA-010, and AA-011, the permittee shall not use any fuel other than pipeline natural gas. (Ref.: PSD Construction Permit issued August 17, 2010)

3.B.32 For Emission Points AA-010 and AA-011 (**combined cycle combustion turbines with duct firing – Case 1**), the permittee shall meet the emission limits in Table 3.B above. The permittee shall comply with the short-term ppmdv and lb/hr limits except during periods of startup, shutdown, and combustion tuning. Emissions from startups, shutdowns, and combustion tuning shall be included when demonstrating compliance with the long-term TPY limits. (Ref.: PSD Construction Permit issued August 17, 2010, and 11 Miss. Admin. Code Pt. 2, R. 6.3.A(1).)

3.B.33 For Emission Points AA-010 and AA-011 (**combined cycle combustion turbines with duct firing – Case 1**), the permittee shall only fire the duct burners during periods of the maximum capable combustion turbine outputs. (Ref.: PSD Construction Permit issued August 17, 2010)

3.B.34 For Emission Points AA-010 and AA-011 (**combined cycle combustion turbines with duct firing – Case 1**), the permittee shall be limited to 1,538.8 MMBtu/hr heat input (HHV). (Ref.: PSD Construction Permit issued August 17, 2010)

3.B.35 For Emission Points AA-010 and AA-011 (**combined cycle combustion turbines without duct firing – Case 2**), the permittee shall meet the emission limits in the Table 3.B above. The permittee shall comply with the short-term ppmdv and lb/hr limits except during periods of startup, shutdown, and combustion tuning. Emissions from startups, shutdowns, and combustion tuning shall be included when demonstrating

compliance with the long-term TPY limits. (Ref.: PSD Construction Permit issued August 17, 2010, and 11 Miss. Admin. Code Pt. 2, R. 6.3.A(1).)

3.B.36 For Emission Points AA-010 and AA-011 (**combined cycle combustion turbines without duct firing – Case 2**), the permittee shall be limited to 1,260 MMBtu/hr heat input (HHV). (Ref.: PSD Construction Permit issued August 17, 2010)

3.B.37 For Emission Points AA-010 and AA-011, the permittee shall comply with the long-term emission limits in the Section 3.B table above. Compliance with these values shall be based on a 12-month rolling total and shall include emissions while operating the combustion turbines at all loads, whether duct firing or not, and from all startups, shutdowns and combustion tuning. (Ref.: PSD Construction Permit issued August 17, 2010, and 11 Miss. Admin. Code Pt. 2, R. 6.3.A(1).)

3.B.38 For Emission Points AA-010 and AA-011, the permittee shall install and operate low NO_x burners and Selective Catalytic Reduction (SCR). These controls shall be operated at all times when the combustion turbines are operating at 60% load and above. (Ref.: PSD Construction Permit issued August 17, 2010)

3.B.39 For Emission Points AA-008, AA-009, AA-010, and AA-011, the combustion turbines shall not be operated in simple cycle or combined cycle mode below 60% load, except during periods of startup and shutdown. For both modes of operation, startup and shutdown shall be limited and defined as:

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

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

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

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

(Ref.: PSD Construction Permit issued August 17, 2010)

3.B.40 For Emission Points AA-008, AA-009, AA-010, and AA-011, the combustion turbines and duct burners shall be operated in a manner consistent with good air pollution control practices to minimize emissions during startups, shutdowns and combustion tunings which shall include:

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

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

eliminate excess emissions;

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

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

(Ref.: PSD Construction Permit issued August 17, 2010 and 11 Miss. Admin. Code Pt. 2, R. 6.3.A(1).)

3.B.41 For Emission Points AA-012 and AA-013, the permittee shall limit the heat input of each preheater to 9.8 MMBtu/hr. Each preheater shall include low-NO_x burners and will be operated using good combustion practices while firing only pipeline natural gas. Each preheater is limited to having an opacity of ≤10%. (Ref.: PSD Construction Permit issued August 17, 2010)

3.B.42 For Emission Points AA-003, AA-005, AA-006, AA-008 (includes AA-010), and AA-009 (includes AA-011), the permittee is subject to and shall comply with all applicable requirements of the Acid Rain Program Regulations as specified in 40 CFR Parts 72-78. The permittee shall comply with applicable requirements as specified in the Acid Rain Permit attached to this permit in Appendix C. (Ref.: 40 CFR Parts 72-78)

3.B.43 For Emission Points AA-003, AA-005, AA-006, AA-008 (includes AA-010), and AA-009 (includes AA-011), the permittee is subject to the applicable requirements of the Cross-State Air Pollution Rule (CSAPR) as set forth in 40 CFR 97, Subpart BBBBB – NO_x 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 BBBBB)

C. Insignificant and Trivial Activity Emission Limitations & Standards

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

3.C.1 The maximum permissible emission of ash and/or particulate matter from fossil fuel burning installations of less than 10 million BTU per hour heat input shall not exceed 0.6 pounds per million BTU per hour heat input. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 1.3.D(1)(a).)

3.C.2 The maximum discharge of sulfur oxides from any fuel burning installation in which the fuel is burned primarily to produce heat or power by indirect heat transfer shall not exceed 4.8 pounds (measured as sulfur dioxide) per million BTU heat input. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 1.4.A(1).)

SECTION 4. COMPLIANCE SCHEDULE

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

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

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

(b) the compliance status;

(c) whether compliance was continuous or intermittent;

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

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

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

SECTION 5. MONITORING, RECORDKEEPING & REPORTING REQUIREMENTS

A. General Monitoring, Recordkeeping and Reporting Requirements

5.A.1 The permittee shall install, maintain, and operate equipment and/or institute procedures as necessary to perform the monitoring and recordkeeping specified below. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.A(3).)

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

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

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

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

(d) the analytical techniques or methods used;

(e) the results of such analyses; and

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

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

5.A.3 Except where a longer duration is specified in an applicable requirement, the permittee shall retain records of all required monitoring data and support information for a period of at least five (5) years from the date of the monitoring sample, measurement, report, or application. Support information includes all calibration and maintenance records, all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by the permit. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)(b)(2).)

5.A.4 Except as otherwise specified herein, the permittee shall submit reports of any required monitoring by July 31 and January 31 for the preceding six-month period. All instances of deviations from permit requirements must be clearly identified in such reports and all required reports must be certified by a responsible official consistent with 11 Miss. Admin. Code Pt. 2, R. 6.2.E. (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. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.A(3).)

5.A.7 The permittee shall maintain records of any alterations, additions, or changes in equipment or operation. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.A(3).)

B. Specific Monitoring and Recordkeeping Requirements

Emission Point(s)	Applicable Requirement	Condition Number	Pollutant/Parameter Monitored	Monitoring/Recordkeeping Requirement
AA-003 AA-005 AA-006	11 Miss. Admin. Code Pt. 2, R. 6.3.A(3).	5.B.1	Fuel Usage	Monitoring and recordkeeping
AA-004 AA-015	40 CFR 60.4214(b)	5.B.2	Hours of Operation	Recordkeeping
AA-014	40 CFR 63.6625(i) and 63.6655(a), (d), (e)(2), and (f)(2)	5.B.3	HAP	Maintenance, malfunction, and operating records
	40 CFR 63.6660	5.B.4		General recordkeeping
AA-005	40 CFR 60.334(a)	5.B.5	NO_x	Monitoring and recordkeeping
	40 CFR 60.334(i)	5.B.6	SO_2	Monitoring and recordkeeping
	PSD Construction Permit issued April 9, 1996	5.B.7	Hours of Operation	Monitoring and recordkeeping
		5.B.8	CO VOC PM	Stack testing
AA-006	11 Miss. Admin. Code Pt. 2, R. 6.3.A(3).	5.B.9	NO_x	Monitoring
	PSD Construction Permit issued December 10, 2004 and modified December 17, 2009	5.B.10	NO_x O_2	Continuous monitoring
	11 Miss. Admin. Code Pt. 2, R. 6.3.A(3).	5.B.11		Monitoring and recordkeeping
	PSD Construction Permit issued December 10, 2004 and modified December 17, 2009	5.B.12	SO_2	Sulfur monitoring in fuel
		5.B.13	CO	Stack testing
		5.B.14	Hours of Operation	Monitoring and recordkeeping
		5.B.15	Startup/Shutdown	Monitoring and recordkeeping

Emission Point(s)	Applicable Requirement	Condition Number	Pollutant/Parameter Monitored	Monitoring/Recordkeeping Requirement
		5.B.16	CO	Recordkeeping
AA-007	11 Miss. Admin. Code Pt. 2, R. 6.3.A(3).	5.B.1	Fuel Usage	Monitoring and recordkeeping
AA-008 AA-009	PSD Construction Permit issued August 17, 2010	5.B.17	CO	Stack testing
AA-010 AA-011		5.B.18		Stack testing
AA-008 AA-009 AA-010 AA-011	PSD Construction Permit issued August 17, 2010	5.B.19	CO	Monitoring plan
		5.B.20	NO_x	Stack testing
	40 CFR 60.4340, 60.4345, 60.4350, and 60.4405	5.B.21		Continuous monitoring
		5.B.22	$PM/PM_{10}/PM_{2.5}$	Stack testing
		5.B.23	Startup/Shutdown	Monitoring and recordkeeping
	40 CFR 60.4360 and 60.4365	5.B.24	Sulfur Content	Monitoring
		5.B.25	Operating Hours	Monitoring and recordkeeping
		5.B.26	Fuel Usage	Recordkeeping
AA-012 AA-013	PSD Construction Permit issued August 17, 2010	5.B.27	Fuel Usage	Recordkeeping
AA-003 AA-005 AA-006 AA-008 AA-009 AA-010 AA-011	40 CFR 75	5.B.28	SO_2 NO_x	Monitoring
AA-005 AA-006 AA-008 AA-009 AA-010 AA-011	11 Miss. Admin. Code Pt. 2, R. 6.3.A(3).	5.B.29	NO_x	Monitoring

5.B.1 For Emission Points AA-003, A-005, AA-006 and AA-007, the permittee shall keep records of all fuels burned. These records shall consist of fuel type, quantity, the sulfur content (% by weight), and the heating value (Btu/gal or Btu/ft^3). (Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.A(3).)

5.B.2 For Emission Points AA-004 and AA-015, the permittee shall keep records of the

operation of the engine in emergency and non-emergency service that are recorded through the hour meter. The records shall include the time of operation and the reason it was operating at that time. (Ref.: 40 CFR 60.4214(b))

5.B.3 For Emission Point AA-014, 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 process 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.4 For Emission Point AA-014, 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)

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

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

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

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

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

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

(Ref.: 40 CFR 60.334(a))

5.B.6 For Emission Point AA-005, the permittee shall monitor the sulfur content and nitrogen content of the fuel being fired. The permittee shall monitor the pipeline quality natural gas in accordance with the following EPA approved custom fuel monitoring plan:

(a) The permittee may omit the monitoring of fuel nitrogen content while natural gas is the only fuel fired in the gas turbine.

(b) The permittee shall ensure that a flow-proportional composite sampler be installed and operational.

(c) The permittee shall analyze and monitor the sulfur content of the natural gas every six months using method ASTM D3246-81 or an equivalent method for measurement of total sulfur in gaseous fuels.

(d) The permittee shall retain a file copy of all analyses for a period of five years. These analyses will serve as indicators of compliance with 40 CFR 60.333(b) as well as be a source of monthly Gross Calorimetric Values (GCVs) for use in hourly Heat Input equations of 40 CFR Part 75. The monthly provision of GCVs will continue at that frequency of total sulfur content decreases as outlined in (c).

In accordance with 40 CFR 60.334(i)(1), when the fuel being fired in the turbine is fuel oil, the permittee shall monitor the sulfur content and nitrogen content of the fuel oil on each occasion that fuel is transferred to the storage tank from any other source. (Ref.: 40 CFR 60.334(i) and PSD Construction Permit issued April 9, 1996)

5.B.7 For Emission Point AA-005, the permittee shall maintain daily records documenting hours of operation of the unit while burning natural gas and/or fuel oil. These records should be kept on a rolling 365-day period to ensure that the unit has not exceeded the 3,000 hours of total operation allowed during any 365-day period or the 450 hours of fuel oil firing allowed during any 365-day period. (Ref.: PSD Construction Permit issued April 9, 1996)

5.B.8 For Emission Point AA-005, the permittee shall demonstrate compliance with Volatile Organic Compounds (VOC) emission limitations using EPA Methods 18 and 25, Particulate Matter (PM) emission limitations using EPA Methods 1-5, and Carbon Monoxide emission limitations using EPA Method 10 by stack testing and submittal of a stack test report once within the life of this permit while firing each fuel. Stack testing shall not be conducted within 18 months of a prior stack test for the same pollutant.

Stack testing to demonstrate compliance with the emission limitations while burning fuel oil is not required if the unit is not firing fuel oil. Stack testing shall be performed under normal operating conditions and while operating at or near capacity, defined as within 5% of the maximum rated capacity (100% load). The permittee shall use the test methods above or an approved equivalent when performing the tests.

The permittee shall submit a written test protocol at least thirty (30) days prior to the proposed 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.: PSD Construction Permit issued April 9, 1996)

5.B.9 For Emission Point AA-006, the permittee shall demonstrate compliance with NO_x emission limitations using a CEMS. Demonstrating compliance using CEMS data in lieu of EPA Reference Methods is an acceptable practice provided that the permittee meets the guidelines established in EPA's general guidance on "Alternative Testing and Monitoring Procedures for Combustion Turbines Regulated under New Source Performance Standards." This includes the use of reference method test data collected during the Relative Accuracy Test Audits (RATA) required under 40 CFR 75. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.A(3).)

5.B.10 For Emission Point AA-006, the permittee shall install, calibrate, maintain, and operate continuous monitoring systems for NO_x (as specified in 40 CFR 60.334, Appendix B of 40 CFR 60, and 40 CFR 75), and O_2 (as specified in Appendix B of 40 CFR 60 and 40 CFR 75). These monitoring systems must comply with all applicable requirements specified in 40 CFR 60.334, 60.13, Appendix B of 40 CFR 60, and 40 CFR 75. In addition, the permittee must comply with the reporting and recordkeeping requirements specified in 40 CFR 60.7 and 40 CFR 75. (Ref.: PSD Construction Permit issued December 10, 2004 and modified December 17, 2009)

5.B.11 For Emission Point AA-006, the NO_x and O_2 CEMS shall also be capable of and certified to accurately read/measure NO_x concentrations to comply with the tons/year limit. The permittee shall continue to use the approved data substitution protocol in the Data Acquisition Handling System (DAHS) to calculate the tons/year emissions of NO_x in the event there is a malfunction. Data obtained from this system will be used to calculate the tons/year of NO_x on a 365-day rolling total basis. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.A(3))

5.B.12 For Emission Point AA-006, the permittee shall demonstrate compliance with the sulfur fuel limitation by using the EPA approved custom fuel monitoring plan. (Ref.: PSD Construction Permit issued December 10, 2004 and modified December 17, 2009)

5.B.13 For Emission Point AA-006, the permittee shall demonstrate compliance with carbon monoxide emission limitations by stack testing biennially in accordance with EPA Reference Method 10 or an approved equivalent and submittal of a stack test report. 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. (Ref.: PSD Construction Permit issued December 10, 2004 and modified December 17, 2009)

5.B.14 For Emission Point AA-006, the permittee shall monitor and record the hours of operation on a daily basis. (Ref.: PSD Construction Permit issued December 10, 2004 and modified December 17, 2009)

5.B.15 For Emission Point AA-006, the permittee shall record the number and duration of startups and shutdowns based on a rolling 365-day total. The records shall include information such as the time, date, duration of each startup and shutdown, and confirmation that good air pollution control practices were followed. (Ref.: PSD Construction Permit issued December 10, 2004 and modified December 17, 2009)

5.B.16 For Emission Point AA-006, the permittee shall demonstrate compliance with the tons/year emission limitation for CO by using the following formula:

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

(Ref.: PSD Construction Permit issued December 10, 2004 and modified December 17, 2009)

5.B.17 For Emission Points AA-008 and AA-009 (simple cycle operation), the permittee shall demonstrate compliance with the Carbon Monoxide (CO) emission limitations at 60% load, 80% load, and 100% load and during startup/shutdown by performance testing using EPA Reference Method 10 in 40 CFR 60, Appendix A. Performance tests shall be conducted biennially. (Ref.: PSD Construction Permit issued August 17, 2010)

5.B.18 For Emission Points AA-010 and AA-011 (combined cycle operation), the permittee shall demonstrate compliance with the CO emission limitations by performance testing using EPA Reference Method 10 in 40 CFR 60, Appendix A at each of the following operating scenarios:

(a) 100% load with duct firing,
(b) 100% load without duct firing,
(c) 60-79% load without duct firing,
(d) 80-99% load without duct firing, and
(e) startup and shutdown (verifying lb/startup and lb/shutdown).

Performance tests shall be conducted biennially. (Ref.: PSD Construction Permit issued August 17, 2010)

5.B.19 For Emission Points AA-008, AA-009, AA-010, and AA-011, the permittee has developed a CO Monitoring Plan approved by MDEQ. The plan shall be implemented and maintained on site. The plan shall describe the work practices, parameters

monitored and compliance techniques that will be employed to ensure that good combustion practices are maintained. (Ref.: PSD Construction Permit issued August 17, 2010)

5.B.20 For Emission Points AA-008, AA-009, AA-010, and AA-011, the permittee shall demonstrate compliance with the Nitrogen Oxides (NO_x) emission limitations at 60% and 100% load by performance testing using EPA Reference Method 20 from 40 CFR 60, Appendix A. The permittee is not required to conduct the multi-load testing provided the permittee continues to monitor emissions using a CEMS and conducts the quarterly RATA testing required under the Acid Rain Program. (Ref.: PSD Construction Permit issued August 17, 2010)

5.B.21 For Emission Points AA-008, AA-009, AA-010, and AA-011, the permittee shall demonstrate continuous compliance with the NO_x emission limitations by using a continuous emission monitoring system (CEMS) in accordance with 60.4345 and 40 CFR 75. Demonstrating compliance with NO_x limits using CEMS data in lieu of EPA Reference Methods is an acceptable practice provided the permittee meets the guidelines established in EPA's general guidance on "Alternative Testing and Monitoring Procedures for Combustion Turbines Regulated under New Source Performance Standards." This includes use of reference method test data collected during the Relative Accuracy Test Audits (RATA) required under 40 CFR 75. (Ref.: PSD Construction Permit issued August 17, 2010 and 40 CFR 60.4340, 60.4345, 60.4350, and 60.4405)

5.B.22 For Emission Points AA-008, AA-009, AA-010, and AA-011, the permittee shall demonstrate compliance with the $PM/PM_{10}/PM_{2.5}$ emission limits by performance testing using EPA Reference Methods 5T or 17 from 40 CFR 60, Appendix A or an approved equivalent. Performance tests shall be conducted once per permit term and shall not be conducted within 18 months of a prior test. (Ref.: PSD Construction Permit issued August 17, 2010, and 11 Miss. Admin. Code Pt. 2, R. 6.3.A(3))

5.B.23 For Emission Points AA-008, AA-009, AA-010, and AA-011 the permittee shall record the time (duration) that the combustion units, duct burners, and SCR systems engage in periods of startup, shutdown and combustion tuning and shall also confirm good air pollution practices were being followed during those periods. (Ref.: PSD Construction Permit issued August 17, 2010 and 11 Miss. Admin. Code Pt. 2, R. 6.3.A(1).)

5.B.24 For Emission Points AA-008, AA-009, AA-010, and AA-011, the permittee shall determine the total sulfur content in the combustion fuel in accordance with 40 CFR 60, Subpart KKKK, Sections 60.4360 or 60.4365. At a minimum, the amount of fuel sampling data specified in Section 2.3.1.4 or 2.3.2.4 of 40 CFR 75, Appendix D is required. (Ref.: PSD Construction Permit issued August 17, 2010, and 40 CFR 60.4360 and 60.4365)

5.B.25 For Emission Points AA-008, AA-009, AA-010, and AA-011, the permittee shall record the hours of operation during simple cycle mode, combined cycle mode with duct

firing, and combined cycle mode without duct firing. In addition to these records, the permittee shall also record how much time is spent in the various operating loads. (Ref.: PSD Construction Permit issued August 17, 2010)

5.B.26 For Emission Points AA-008, AA-009, AA-010, and AA-011, the permittee shall keep records on site certifying that each combustion turbine and duct burner combusts only pipeline natural gas. The records shall include the heat input, heating value, and quantity of natural gas (ft^3) burned on a monthly basis. (Ref.: PSD Construction Permit issued August 17, 2010)

5.B.27 For Emission Points AA-012 and AA-013, the permittee shall keep records on site certifying that each pre-heater combusts only pipeline natural gas. (Ref.: PSD Construction Permit issued August 17, 2010)

5.B.28 For Emission Points AA-003, AA-005, AA-006, AA-008, AA-009, AA-010, and AA-011, the permittee shall monitor and keep records of emissions in accordance with 40 CFR 75. The permittee shall maintain a file 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)

5.B.29 For Emission Points AA-005, AA-006, AA-008, AA-009, AA-010, and AA-011, the permittee shall use CEMS data to demonstrate compliance with the applicable ppm, lb/hr and TPY limits, as applicable. For Emission Point AA-005 compliance with the ppm and lb/hr limits shall be determined on a one-hour average, for Emission Point AA-006, compliance with the ppm and lb/hr limits shall be determined on a three-hour rolling average basis, with average emissions determined hourly, and for Emission Points AA-008, AA-009, AA-010, and AA-011, compliance with the ppm and lb/hr limits shall be determined on a one-hour average. The permittee shall demonstrate compliance with the TPY limits daily, based on a 365-day rolling total. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.A(3).)

C. Specific Reporting Requirements

Emission Point(s)	Applicable Requirement	Condition Number	Pollutant/Parameter Monitored	Reporting Requirement
AA-003 AA-005 AA-006 AA-007	11 Miss. Admin. Code Pt. 2, R. 6.3.A(3).	5.C.1	Fuel Usage	Quarterly report
AA-003 AA-005 AA-006 AA-008 AA-009 AA-010 AA-011	40 CFR 72.90(a)	5.C.2	NO_x SO_2	Annual compliance certification report

Emission Point(s)	Applicable Requirement	Condition Number	Pollutant/Parameter Monitored	Reporting Requirement
AA-014	40 CFR 60.6640(b)	5.C.3	HAP	Deviation report
AA-005 AA-006	40 CFR 60.334(j)(1)	5.C.4	NO_x	Semi-annual report
	40 CFR 60.334(j)(2) and 11 Miss. Admin. Code Pt. 2, R. 6.3.A(3).	5.C.5	SO_2	
	PSD Construction Permits issued April 9, 1996 and December 10, 2004	5.C.6	PM CO VOC	Stack test report
AA-005	PSD Construction Permit issued April 9, 1996	5.C.7	Fuel Usage	Semi-annual report
	11 Miss. Admin. Code Pt. 2, R. 6.3.A(3).	5.C.8	NO_x	Semi-annual report
AA-006	PSD Construction Permit issued December 10, 2004 and modified December 17, 2009	5.C.8	NO_x	Semi-annual report
		5.C.4		
		5.C.9	CO	
		5.C.6		Stack test report
		5.C.10	Hours of Operation Startup/Shutdown	Semi-annual report
AA-008 AA-009 AA-010 AA-011	PSD Construction Permit issued August 17, 2010	5.C.11	NO_x	Semi-annual report
		5.C.12	Operating Scenarios/Modes	
		5.C.13	Startup/Shutdown	
	40 CFR 60.4375 and 60.4395	5.C.14	NO_x Sulfur Content	
		5.C.15	NO_x CO $PM/PM_{10}/PM_{2.5}$	Stack test protocols, notifications, and reports

5.C.1 For Emission Points AA-003, AA-005, AA-006, and AA-007, the permittee shall submit a quarterly fuel usage report summarizing the type, quantity, and quality of the fuels burned. The information should include sulfur content (% by weight) and heating value (Btu/gal or Btu/ft^3) of each fuel. (Ref.: 11 Miss. Admin. Code Pt 2, R. 6.3.A(3))

5.C.2 For Emission Points AA-003, AA-005, AA-006, AA-008, AA-009, AA-010, and AA-011, the permittee shall submit an annual compliance certification report to the Administrator within sixty (60) days after the end of the calendar year for each year an

affected unit is subject to the provisions of the Acid Rain Program. The contents of the report shall be in accordance with 40 CFR 72.90(b). (Ref.: 40 CFR 72.90(a))

5.C.3 For Emission Point AA-014, the permittee shall report each instance in which the maintenance practices are not completed in a timely manner. Such instances are considered deviations and should be reported in accordance with Condition 5.A.5 of this permit. If the maintenance practice was not performed on the required schedule because it posed an unacceptable risk under Federal, State, or local law at the time of the required scheduled maintenance, the report must include the Federal, State, or local law under which the risk was deemed unacceptable. (Ref.: 40 CFR 63.6640(b))

5.C.4 For Emission Points AA-005 and AA-006, the permittee shall submit a semi-annual excess emissions and monitor downtime report for each CEMS in accordance with Condition 5.A.4 of this permit. This report shall include all the information required in 40 CFR 60.7(c) and (d) and also the content of nitrogen in fuel oil for each reporting period that oil is fired and a clearly calculated corresponding emission limitation calculated from the applicable equation found in 40 CFR 60.332(a). (Ref.: 40 CFR 60.334(j)(1))

5.C.5 For Emission Point AA-005, the permittee shall submit a semi-annual report identifying any daily operating periods in which the sulfur content of the fuel being fired exceeded 0.15 percent and/or 0.8 percent sulfur by weight. For Emission Point AA-006, the permittee shall submit a semi-annual report identifying any daily operating periods in which the sulfur content of the fuel being fired exceeded 2 grains per 100 dry SCR and/or 0.8 percent sulfur by weight. If no such exceedances existed, such should be stated in the report. All reports must be submitted in accordance with Condition 5.A.4 of this permit. (Ref.: 40 CFR 60.334(j)(2) and 11 Miss. Admin. Code Pt. 2, R. 6.3.A(3).)

5.C.6 For Emission Points AA-005 (PM, CO, and VOC) and AA-006 (CO), the permittee shall submit the results of all required stack tests within sixty (60) days of the date a test(s) is performed. (Ref.: PSD Construction Permits issued April 9, 1996, and December 10, 2004)

5.C.7 For Emission Point AA-005, the permittee shall submit a report summarizing the total hours of operation for each day and for each rolling 365-day period. The report should also identify the total hours of operation for each day and rolling 365-day period in which fuel oil was fired in the turbine. This report shall be submitted in accordance with Condition 5.A.4 of this permit. (Ref.: PSD Construction Permit issued April 9, 1996)

5.C.8 For Emission Points AA-005 and AA-006, the permittee shall submit a semi-annual report summarizing the emissions in tons per year of NO_x based on CEMS data for each consecutive 365-day rolling period. The report shall be submitted in accordance with Condition 5.A.4 of this permit. (Ref.: PSD Construction Permit issued December 10, 2004)

5.C.9 For Emission Point AA-006, the permittee shall submit a semi-annual report summarizing the emissions in tons per year of CO for each consecutive 365-day rolling period. The report shall be submitted in accordance with Condition 5.A.4 of this permit. (Ref.: PSD Construction Permit issued December 10, 2004)

5.C.10 For Emission Point AA-006, the permittee shall submit a semi-annual report containing a summary of the hours of operation for each consecutive 365-day rolling period. The hours of operation should include all time spent during startups and shutdowns. The report shall also include the number and duration of all startups and shutdowns that occurred during the 365-day rolling period and any deviations from the permitted startup and shutdown time periods. This report shall be submitted in accordance with Condition 5.A.4 of this permit. (Ref.: PSD Construction Permit issued December 10, 2004 and modified December 17, 2009)

5.C.11 For Emission Points AA-008, AA-009, AA-010, and AA-011, the permittee shall submit reports containing a summary of emissions in tons/year of NO_x based on CEMS data for each consecutive 365-day rolling total. Each report shall be submitted in accordance with Condition 5.A.4. (Ref.: PSD Construction Permit issued August 17, 2010)

5.C.12 For Emission Points AA-008, AA-009, AA-010, and AA-011, the permittee shall submit reports summarizing the hours of operation in simple and combined cycle mode for each 365-day period. For periods of combined cycle operation, the report shall include the monthly and twelve (12) month rolling totals of the hours of operation the duct burners were being fired. The report shall also include the maximum heat input of the combustion turbines during the twelve (12) month period. Each report shall be submitted in accordance with Condition 5.A.4. (Ref.: PSD Construction Permit issued August 17, 2010)

5.C.13 For Emission Points AA-008, AA-009, AA-010, and AA-011, the permittee shall submit reports detailing the operating information for all combustion units and control equipment for each startup, shutdown and combustion tuning. At a minimum, this information shall include number of startups, shutdowns and combustion tunings, duration of each, and the time the combustion units were in operation until such time the control equipment began to operate. Each report shall be submitted in accordance with Condition 5.A.4. (Ref.: PSD Construction Permit issued August 17, 2010 and 11 Miss. Admin. Code Pt. 2, R. 6.3.A(1).)

5.C.14 For Emission Points AA-008, AA-009, AA-010, and AA-011, the permittee shall submit reports containing reports of excess emissions and monitor downtime in accordance with 40 CFR 60.7(c). Excess emissions must be reported for all periods of unit operation, including startup, shutdown, and malfunction. Each report shall be submitted in accordance with Condition 5.A.4. (Ref.: PSD Construction Permit issued August 17, 2010, and 40 CFR 60.4375 and 60.4395)

5.C.15 For Emission Points AA-008, AA-009, AA-010, and AA-011, the permittee shall

submit a written test protocol for all stack testing at least thirty (30) days prior to the intended test dates to ensure that all test methods and procedures are approved. A written notification shall be submitted to the MDEQ at least ten (10) days prior to the intended test dates so that an observer may be afforded the opportunity to witness the test. All test reports shall be submitted within sixty (60) days after the test dates. The test methods specified in this permit shall be those versions, or their approved equivalents, which were in effect August 17, 2010. (Ref.: Permit to Construct issued August 17, 2010)

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 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 REQUIREMENTS

For Emission Points AA-003, AA-005, AA-006, AA-008 (includes AA-010) and AA-009 (includes AA-011), 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 [issuance date] through the [expiration date]; however, these conditions may be revised by the MDEQ during the permitting period.

Emission Points AA-003, AA-005, AA-006, AA-008 (includes AA-010) and AA-009 (includes AA-011), are affected units under the Acid Rain Program as specified in 40 CFR Parts 72-78. However, these units are natural gas/#2 fuel oil fired units and are therefore not subject to the NO_X requirements outlined in 40 CFR Part 76.

(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 NOx Ozone Season Trading Program.

Unit ID: Emission Points AA-003, AA-005, AA-006, AA-008 (includes AA-010) and AA-009 (includes AA-011)					
Parameter	Continuous emission monitoring system or systems (CEMS) requirements pursuant to 40 CFR part 75, subpart B (for SO2 monitoring) and 40 CFR part 75, subpart H (for NOX monitoring)	Excepted monitoring system requirements for gas- and oil-fired units pursuant to 40 CFR part 75, appendix D	Excepted monitoring system requirements for gas- and oil-fired peaking units pursuant to 40 CFR part 75, appendix E	Low Mass Emissions excepted monitoring (LME) requirements for gas- and oil-fired units pursuant to 40 CFR 75.19	EPA-approved alternative monitoring system requirements pursuant to 40 CFR part 75, subpart E
SO_2		X			
NO_X	X				
Heat Input		X			

9.2 The above description of the monitoring used by a unit does not change, create an exemption from, or otherwise affect the monitoring, recordkeeping, and reporting requirements applicable to the unit under 40 CFR 97.530 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 NOx 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_X Ozone Season source and each TR NO_X 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_X Ozone Season allowances under 40 CFR 97.511(a)(2) and (b) and 97.512 and to determine compliance with the TR NO_X 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_X emissions requirements.

(1) TR NO_X 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_X Ozone Season source and each TR NO_X Ozone Season unit at the source shall hold, in the source's compliance account, TR NO_X 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_X emissions for such control period from all TR NO_X Ozone Season units at the source.

(ii) If total NO_X emissions during a control period in a given year from the TR NO_X Ozone Season units at a TR NO_X Ozone Season source are in excess of the TR NO_X 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_X Ozone Season unit at the source shall hold the TR NO_X 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_X 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 BBBBB and the Clean Air Act.

(2) TR NO_X Ozone Season assurance provisions.

(i) If total NO_X emissions during a control period in a given year from all TR NO_X Ozone Season units at TR NO_X 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_X emissions during such control period exceeds the common designated representative's assurance level for the state and such control period, shall hold (in the assurance account established for the owners and operators of such group) TR NO_X 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_X emissions exceeds the common designated representative's assurance level divided by the sum of the amounts, determined for all common designated representatives for such sources and units in the state (and Indian

country within the borders of such state) for such control period, by which each common designated representative's share of such NO_X emissions exceeds the respective common designated representative's assurance level; and

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

(ii) The permittee shall hold the TR NO_X 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_X emissions from all TR NO_X Ozone Season units at TR NO_X 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_X emissions exceed the sum, for such control period, of the State NO_X 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 BBBBB or of the Clean Air Act if total NO_X emissions from all TR NO_X Ozone Season units at TR NO_X 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_X emissions from the TR NO_X Ozone Season units at TR NO_X 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_X 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_X 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_X 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_X 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_X 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_X Ozone Season allowance that was allocated for such control period or a control period in a prior year.

(ii) A TR NO_X 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_X 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_X 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_X Ozone Season allowance is a limited authorization to emit one ton of NO_X during the control period in one year. Such authorization is limited in its use and duration as follows:

(i) Such authorization shall only be used in accordance with the TR NO_X 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_X 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_X 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_X Ozone Season source and each TR NO_X 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_X Ozone Season unit at the source and all documents that demonstrate the truth of the statements in the certificate of representation; provided that the certificate and documents shall be retained on site at the source beyond such 5-year period until such certificate of representation and documents are superseded because of the submission of a new certificate of representation under 40 CFR 97.516 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_X Ozone Season Trading Program.

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

(2) Any provision of the TR NO_X Ozone Season Trading Program that applies to a TR NO_X Ozone Season unit or the designated representative of a TR NO_X Ozone Season unit shall also apply to the permittee of such unit.

(g) Effect on other authorities - No provision of the TR NO_X 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_X Ozone Season source or TR NO_X 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_x	Nitrogen Oxides
NSPS	New Source Performance Standards, 40 CFR 60
O&M	Operation and Maintenance
PM	Particulate Matter
PM_{10}	Particulate Matter less than 10 μm in diameter
ppm	Parts per Million
PSD	Prevention of Significant Deterioration, 40 CFR 52
SIP	State Implementation Plan
SO_2	Sulfur Dioxide
TPY	Tons per Year
TRS	Total Reduced Sulfur
VEE	Visible Emissions Evaluation
VHAP	Volatile Hazardous Air Pollutant
VOC	Volatile Organic Compound

APPENDIX B

LIST OF REGULATIONS REFERENCED IN THIS PERMIT

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

40 CFR 63, Subpart KKKK, Standards of Performance for Stationary Combustion Turbines

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

40 CFR 72-78 – Acid Rain Program General Provisions

APPENDIX C

PHASE II ACID RAIN PERMIT

PHASE II ACID RAIN PERMIT

Issued to: Moselle Generating Complex
Operated by: Cooperative Energy, a Mississippi electric cooperative
ORIS code: 2070
Effective: *TVOP Issuance Date* to *TVOP Expiration Date*

Summary of Previous Actions:

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

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

Present Action:

9) Draft permit for public and EPA comment (permit renewal).	DATE

_____ _____
Signature Date

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

PHASE II ACID RAIN PERMIT

Issued to:	Moselle Generating Complex
Operated by:	Cooperative Energy, a Mississippi electric cooperative
ORIS code:	2070
Effective:	*TVOP Issuance Date* to *TVOP Expiration Date*

ACID RAIN PERMIT CONTENTS:

1) Statement of Basis.

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

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

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

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1) STATEMENT OF BASIS:

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

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

		2018	2019	2020	2021	2022	2023
Unit 3 (AA-003)	**SO_2 allowances, under Table 2 of 40 CFR Part 73.**	38	38	38	38	38	38
Unit 4 (AA-005)		0	0	0	0	0	0
Unit 5 (AA-006)		0	0	0	0	0	0
Unit 6 (AA-008)		0	0	0	0	0	0
Unit 7 (AA-009)		0	0	0	0	0	0
Unit 3 **Unit 4** **Unit 5** **Unit 6** **Unit 7**	**NO_X limit**	N/A					

3) COMMENTS, NOTES AND JUSTIFICATIONS:

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

4) PHASE II PERMIT APPLICATION:

Attached

ACID RAIN PERMIT APPLICATION

United States
Environmental Protection Agency
Acid Rain Program

OMB No. 2060-0258
Approval expires 11/30/2012

Acid Rain Permit Application

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

This submission is: ☐ New ☐ Revised ☒ for ARP permit renewal

STEP 1

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

Facility (Source) Name	State	Plant Code
Moselle Generation Complex	MS	2070

STEP 2

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

a	b
Unit ID#	Unit Will Hold Allowances in Accordance with 40 CFR 72.9(c)(1)
3	Yes
**4	Yes
5	Yes
6	Yes
7	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes

EPA Form 7610-16 (Revised 7-2014)

STEP 3

Read the standard requirements.

Permit Requirements

(1) The designated representative of each affected source and each affected unit at the source shall:

(i) Submit a complete Acid Rain permit application (including a compliance plan) under 40 CFR part 72 in accordance with the deadlines specified in 40 CFR 72.30; and

(ii) Submit in a timely manner any supplemental information that the permitting authority determines is necessary in order to review an Acid Rain permit application and issue or deny an Acid Rain permit;

(2) The owners and operators of each affected source and each affected unit at the source shall:

(i) Operate the unit in compliance with a complete Acid Rain permit application or a superseding Acid Rain permit issued by the permitting authority; and

(ii) Have an Acid Rain Permit.

Monitoring Requirements

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

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

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

Sulfur Dioxide Requirements

(1) The owners and operators of each source and each affected unit at the source shall:

(i) Hold allowances, as of the allowance transfer deadline, in the source's compliance account (after deductions under 40 CFR 73.34(c)), not less than the total annual emissions of sulfur dioxide for the previous calendar year from the affected units at the source; and

(ii) Comply with the applicable Acid Rain emissions limitations for sulfur dioxide.

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

(3) An affected unit shall be subject to the requirements under paragraph (1) of the sulfur dioxide requirements as follows:

(i) Starting January 1, 2000, an affected unit under 40 CFR 72.6(a)(2); or

(ii) Starting on the later of January 1, 2000 or the deadline for monitor certification under 40 CFR part 75, an affected unit under 40 CFR 72.6(a)(3).

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

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

Moselle Generation Complex
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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	Nathan L. Brown	Date	2/23/17