

**STATE OF MISSISSIPPI
AIR POLLUTION CONTROL
TITLE V PERMIT
TO OPERATE AIR EMISSIONS EQUIPMENT
THIS CERTIFIES THAT**

Clarksdale Public Utilities, Crossroads Energy Center
19th and West Tallahatchie Street
Clarksdale, Mississippi
Coahoma 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: DEC 06 2011

Effective Date: As specified herein.

MISSISSIPPI ENVIRONMENTAL QUALITY PERMIT BOARD



AUTHORIZED SIGNATURE

MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY

Expires: NOV 30 2016

Permit No.: 0540-00079

TABLE OF CONTENTS

SECTION 1. GENERAL CONDITIONS3
SECTION 2. EMISSION POINTS & POLLUTION CONTROL DEVICES 12
SECTION 3. EMISSION LIMITATIONS & STANDARDS 13
SECTION 4. COMPLIANCE SCHEDULE..... 18
SECTION 5. MONITORING, RECORDKEEPING & REPORTING REQUIREMENTS 20
SECTION 6. ALTERNATIVE OPERATING SCENARIOS 26
SECTION 7. TITLE VI REQUIREMENTS 28
SECTION 8. ACID RAIN REQUIREMENTS.....31

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

SECTION 1. GENERAL CONDITIONS

- 1.1 The permittee must comply with all conditions of this permit. Any permit 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.: APC-S-6, Section III.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.: APC-S-6, Section III.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.: APC-S-6, Section III.A.6.c.)
- 1.4 This permit does not convey any property rights of any sort, or any exclusive privilege. (Ref.: APC-S-6, Section III.A.6.d.)
- 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.: APC-S-6, Section III.A.6.e.)
- 1.6 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.: APC-S-6, Section III.A.5.)
- 1.7 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 APC-S-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.: APC-S-6, Section VI.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.: APC-S-6, Section VI.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.: APC-S-6, Section VI.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.: APC-S-6, Section VI.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.: APC-S-6, Section VI.C.)
- 1.8 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.: APC-S-6, Section III.A.8.)
- 1.9 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.: APC-S-6, Section II.E.)

- 1.10 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.: APC-S-6, Section III.C.2.)
- 1.11 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.: APC-S-1, Section 3.9(a))
- 1.12 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.: APC-S-1, Section 3.9(b))
- 1.13 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.: APC-S-6, Section III.F.1.)
- 1.14 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.: APC-S-6, Section III.F.2.)
- 1.15 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.: APC-S-6, Section III.H.)
- 1.16 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.: APC-S-6, Section IV.C.2., Section IV.B., and Section II.A.1.c.)
- 1.17 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.: APC-S-6, Section IV.F.)
- 1.18 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

Regulation APC-S-3, "Regulations for the Prevention of Air Pollution Emergency Episodes" for the level of emergency declared. (Ref.: APC-S-3)

- 1.19 Except as otherwise provided herein, a modification of the facility may require a Permit to Construct in accordance with the provisions of Regulations APC-S-2, "Permit Regulations for the Construction and/or Operation of Air Emissions Equipment", and may require modification of this permit in accordance with Regulations APC-S-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."
- 1.20 Any change in ownership or operational control must be approved by the Permit Board. (Ref.: APC-S-6, Section IV.D.4.)

- 1.21 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.: APC-S-6, Section III.B.1)
- 1.22 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.: APC-S-1, Section 3.7)
- 1.23 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.: APC-S-6, Section III.G.)

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

- (a) Upsets (as defined by APC-S-1, Section 2.37)
- (1) The occurrence of an upset constitutes an affirmative defense to an enforcement action brought for noncompliance with emission standards or other requirements of Applicable Rules and Regulations or any applicable permit if the permittee demonstrates through properly signed contemporaneous operating logs, or other relevant evidence that include information as follows:
 - (i) an upset occurred and that the permittee can identify the cause(s) of the upset;
 - (ii) the source was at the time being properly operated;
 - (iii) during the upset the permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards, or other requirements of Applicable Rules and Regulations or any applicable permit;

- (iv) the permittee submitted notice of the upset to the DEQ within 5 working days of the time the upset began; and
 - (v) the notice of the upset shall contain a description of the upset, any steps taken to mitigate emissions, and corrective actions taken.
 - (2) In any enforcement proceeding, the permittee 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.
- (b) Startups and Shutdowns (as defined by APC-S-1, Sections 2.34 & 2.29)
- (1) Startups and shutdowns are part of normal source operation. Emissions limitations applicable to normal operation apply during startups and shutdowns except as follows:
 - (i) when sudden, unavoidable breakdowns occur during a startup or shutdown, the event may be classified as an upset subject to the requirements above;
 - (ii) when a startup or shutdown is infrequent, the duration of excess emissions is brief in each event, and the design of the source is such that the period of excess emissions cannot be avoided without causing damage to equipment or persons; or
 - (iii) when the emissions standards applicable during a startup or shutdown are defined by other requirements of Applicable Rules and Regulations or any applicable permit.
 - (2) In any enforcement proceeding, the permittee seeking to establish the applicability of any exception during a startup or shutdown has the burden of proof.
 - (3) In the event this startup and shutdown provision conflicts with another applicable requirement, the more stringent requirement shall apply.
- (c) Maintenance.
- (1) Maintenance should be performed during planned shutdown or repair of process equipment such that excess emissions are avoided. Unavoidable maintenance that results in brief periods of excess emissions and that is necessary to prevent or minimize emergency conditions or equipment

malfunctions constitutes an affirmative defense to an enforcement action brought for noncompliance with emission standards, or other regulatory requirements if the permittee can demonstrate the following:

- (i) the permittee can identify the need for the maintenance;
 - (ii) the source was at the time being properly operated;
 - (iii) during the maintenance the permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards, or other requirements of Applicable Rules and Regulations or any applicable permit;
 - (iv) the permittee submitted notice of the maintenance to the DEQ within 5 working days of the time the maintenance began or such other times as allowed by DEQ; and
 - (v) the notice shall contain a description of the maintenance, any steps taken to mitigate emissions, and corrective actions taken.
- (2) In any enforcement proceeding, the permittee seeking to establish the applicability of this section has the burden of proof.
 - (3) In the event this maintenance provision conflicts with another applicable requirement, the more stringent requirement shall apply. (Ref.: APC-S-1, Section 10)

- 1.25 The permittee shall comply with all applicable standards for demolition and renovation activities pursuant to the requirements of 40 CFR Part 61, Subpart M, as adopted by reference in Regulation APC-S-1, Section 8. The permittee shall not be required to obtain a modification of this permit in order to perform the referenced activities.

SECTION 2. EMISSION POINTS & POLLUTION CONTROL DEVICES

Emission Point	Description
AA-001	869.1 MMBTU/hr (77 MW), simple cycle, General Electric natural gas-fired combustion turbine (MEPCP EP-01) with dry low NO _x burners.
AA-002	869.1 MMBTU/hr (77 MW), simple cycle, General Electric natural gas-fired combustion turbine (MEPCP EP-02) with dry low NO _x burners.
AA-003	869.1 MMBTU/hr (77 MW), simple cycle, General Electric natural gas-fired combustion turbine (MEPCP EP-03) with dry low NO _x burners.
AA-004	869.1 MMBTU/hr (77 MW), simple cycle, General Electric natural gas-fired combustion turbine (MEPCP EP-04) with dry low NO _x burners.
AA-005	6.2 MMBTUH, natural gas-fired heater (EP-05).

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.: APC-S-1, Section 3.1)
- 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.: APC-S-1, Section 3.2)

B. Emission Point Specific Emission Limitations & Standards

Emission Point(s)	Applicable Requirement	Condition Number(s)	Pollutant/Parameter	Limit/Standard
AA-001	40 CFR 72-78 Acid Rain Permit Issued: <u>Issuance Date</u>	3.B.1	Acid Rain	Subject to the Acid Rain Regulations with the Acid Rain Permit attached in Appendix B.
AA-002	Federally Enforceable Permit to Construct for the Prevention of Significant Deterioration Issued: <u>April 19, 2001</u> Modified: <u>February 17, 2006</u> 40 CFR 60.330 –Subpart GG for Stationary Gas Turbines	3.B.2	Periods of Startup and Shutdown	A startup event begins at the moment the startup sequence is initiated by the facility operator and fuel flow is initiated into the specific combustion turbine and ends at a point not to exceed 10 minutes past the attainment of pre-mix steady state mode. Initial pre-mix steady state will not exceed 60 % load. For periods of startup, the permittee shall limit the period of each turbine startup to one (1) hour or less.
AA-003				A shutdown event begins at the moment the specific combustion turbine reduces load and exits pre-mix steady state mode during a normal shutdown sequence initiated by the facility operator and ends with the termination of fuel flow to the specific combustion turbine. For periods of shutdown, the permittee shall limit the period of each turbine shutdown time to one (1) hour or less.
AA-004				The permittee shall not use emission rates during periods of startup or shutdown for determining compliance with the 3-hour rolling average emission rates, specified above. However, the permittee shall use emission rates during periods of startup or shutdown for determining compliance with the long-term annual emission limit. Operate the combustion turbines in a manner consistent with good air pollution control practices to minimize emissions during startup and shutdowns. This operation shall occur in accordance with the manufacturer’s written instructions or other written instructions developed and maintained by the permittee which shall include review of the operating parameters of the unit during startup or shutdowns as necessary to make adjustments to reduce or eliminate excess emissions.
AA-001	40 CFR 72-78 Acid Rain Permit Issued: <u>Issuance Date</u>	3.B.3 3.B.4	PM/PM ₁₀	10 lbs/hr and 43.8 tons/year; as established from a PSD BACT review.

Emission Point(s)	Applicable Requirement	Condition Number(s)	Pollutant/Parameter	Limit/Standard
AA-002	Federally Enforceable Permit to Construct for the Prevention of Significant Deterioration Issued: <u>April 19, 2001</u> Modified: <u>February 17, 2006</u> 40 CFR 60.330 –Subpart GG for Stationary Gas Turbines	3.B.3 3.B.5	SO ₂	2.4 lbs/hr and 10.3 tons/year; as established by a PSD BACT review.
AA-003		3.B.3 3.B.6	NO _x	9 PPM at 15% oxygen on a dry basis, not to exceed 35 lbs/hr, both limits are based on a 3 hour rolling average and 140.2 tons/year; as established from a PSD BACT review.
AA-004				
(continued)		3.B.3 3.B.7	CO	25 PPM at 15% oxygen on a dry basis, not to exceed 58 lbs/hr, both limits are based on a 3 hour rolling average and 232.1 tons/year; as established from a PSD BACT review.
		3.B.3 3.B.9	VOC	1.8 lbs/hour and 7.9 tons/year; established from a PSD BACT review
		3.B.3 3.B.9	Opacity	10%; established from a PSD BACT review
		3.B.2 3.B.10	Operating Restriction	Except for upsets, startups, shutdowns, maintenance, or emergencies, the permittee shall not operate the combustion turbines at less than 60% load. Upsets, startups, shutdowns, and maintenance are defined in Mississippi Air Regulation APC-S-1 and emergencies are defined in Mississippi Air Regulation APC-S-6.
		3.B.11	Type of Fuel	Shall not fire any fuel other than natural gas.
		3.B.12	Fuel Sulfur Content 40 CFR 60.333(b)	Burn only fuel that contains less than 0.8% by weight sulfur content
AA-005	Federally Enforceable Permit to Construct for the Prevention of Significant Deterioration Authority: Issued: <u>April 19, 2001</u> Modified: <u>February 17, 2006</u>	3.A.1 3.A.2	Opacity	40%

3.B.1 Emission Points AA-001, AA-002, AA-003 and AA-004 are subject to the Acid Rain Program Regulations as specified in 40 CFR 72-78. The permittee must comply with all

applicable requirements of said standards as specified in the Acid Rain Permit issued **February 17, 2006** and attached to this permit in Appendix B.

3.B.2 For Emission Points AA-001, AA-002, AA-003 and AA-004, the permittee shall comply with the following startup or shutdown requirements:

- (A) A startup event begins at the moment the startup sequence is initiated by the facility operator and fuel flow is initiated into the specific combustion turbine and ends at a point not to exceed 10 minutes past the attainment of pre-mix steady-state mode. Initial pre-mix steady state mode will not exceed 60% load.
- (B) For periods of startup, the permittee shall limit the period of each turbine startup to one (1) hour or less.
- (C) A shutdown event begins at the moment the specific combustion turbine reduces load and exits pre-mix steady-state mode (i.e. less than 60% load) during a normal shutdown sequence initiated by the facility operator and ends with the termination of fuel flow to the specific combustion turbine.
- (D) For periods of shutdown, the permittee shall limit the period of each turbine shutdown time to one (1) hour or less.
- (E) The permittee shall not use emission rates during periods of startup or shutdown for determining compliance with the 3-hour rolling average emission rates specified above. However, the permittee shall use emission rates during periods of startup or shutdown for determining compliance with the long-term annual emission.
- (F) For Emission Points AA-001, AA-002, AA-003 and AA-004, the permittee shall operate the combustion turbines in a manner consistent with good air pollution control practices to minimize emissions during startup and shutdowns. This operation shall occur in accordance with the manufacturer's written instructions or other written instructions developed and maintained by the permittee which shall include review of the operating parameters of the unit during startup or shutdowns as necessary to make adjustments to reduce or eliminate excess emissions.

(Ref.: PSD Permit to Construct Issued April 19, 2001 and modified February 17, 2006).

- 3.B.3 For Emission Points AA-001, AA-002, AA-003 and AA-004, each turbine is subject to:
- 40 CFR 60.7 Notification and Recordkeeping Requirements,
 - 40 CFR 60.8 Performance Testing Requirements,
 - 40 CFR 60 Subpart GG (Stationary Gas Turbines), and/or;
 - 40 CFR 52.21 Prevention of Significant Deterioration (specifically BACT and National Ambient Air Quality Standard determinations) regulations.

The emission rates established in the PSD Permit to Construct and this Title V Permit to Operate were based on the most stringent emission rates calculated from the three regulations, which were driven by the BACT review and National Ambient Air Quality Standard analysis.

- 3.B.4 Emission Points AA-001, AA-002, AA-003 and AA-004, the permittee shall be limited to a particulate matter (PM) and/or PM₁₀ emission rate of 10 lbs/hr and 43.8 tons/year or less for each turbine.
(Ref.: PSD Permit to Construct Issued April 19, 2001 and modified February 17, 2006).
- 3.B.5 Emission Points AA-001, AA-002, AA-003 and AA-004, the permittee shall be limited to a sulfur dioxide (SO₂) emission rate of 2.4 lbs/hr and 10.3 tons/year or less for each turbine.
(Ref.: PSD Permit to Construct Issued April 19, 2001 and modified February 17, 2006).
- 3.B.6 Emission Points AA-001, AA-002, AA-003 and AA-004, the permittee shall be limited to a nitrogen oxides (NO_x) emission rate of 9 PPMV at 15% oxygen on a dry basis, not to exceed 35 lbs/hr, both limits are based on a 3-hour rolling average, and 140.2 tons/year or less for each turbine.
(Ref.: PSD Permit to Construct Issued April 19, 2001 and modified February 17, 2006).
- 3.B.7 Emission Points AA-001, AA-002, AA-003 and AA-004, the permittee shall be limited to a carbon monoxide (CO) emission rate of 25 PPMV at 15% oxygen on a dry basis, not to exceed 58 lbs/hr, both limits are based on a 3-hour rolling average, and 232.1 tons/year or less for each turbine.
(Ref.: PSD Permit to Construct Issued April 19, 2001 and modified February 17, 2006).
- 3.B.8 Emission Points AA-001, AA-002, AA-003 and AA-004, the permittee shall be limited to a volatile organic compound (VOC) emission rate of 1.8 lbs/hr and 7.9 tons/year or less for each turbine.
(Ref.: PSD Permit to Construct Issued April 19, 2001 and modified February 17, 2006).
- 3.B.9 Emission Points AA-001, AA-002, AA-003, and AA-004, the permittee shall be limited to an opacity of 10% or less for each turbine.
(Ref.: PSD Permit to Construct Issued April 19, 2001 and modified February 17, 2006).
- 3.B.10 Emission Points AA-001, AA-002, AA-003 and AA-004, except for upsets, startups, shutdowns, maintenance, or emergencies, the permittee shall not operate the combustion turbines at less than 60% load. Upsets, startups, shutdowns, and maintenance are defined in 15093 PER20100001

Mississippi Air Regulation APC-S-1 and emergencies are defined in Mississippi Air Regulation APC-S-6.
(Ref.: PSD Permit to Construct Issued April 19, 2001 and modified February 17, 2006).

3.B.11 Emission Points AA-001, AA-002, AA-003 and AA-004, the permittee shall not fire any fuel other than natural gas.
(Ref.: PSD Permit to Construct Issued April 19, 2001 and modified February 17, 2006).

3.B.12 Emission Points AA-001, AA-002, AA-003 and AA-004, the permittee shall burn only fuel that contains less than 0.8 percent by weight fuel sulfur content
(Ref.: PSD Permit to Construct Issued April 19, 2001 and modified February 17, 2006 and 40 CFR 60.333(b))

C. Insignificant and Trivial Activity Emission Limitations & Standards

Applicable Requirement	Condition Number(s)	Pollutant/ Parameter	Limit/Standard
APC-S-1, Section 3.4(a)(1)	3.C.1 & 1.19	PM	0.6 lbs/MMBTU or as otherwise limited by facility modification restrictions
APC-S-1, Section 4.1(a)	3.C.2 & 1.19	SO ₂	4.8 lbs/MMBTU or as otherwise limited by facility modification restrictions

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.

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.

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.: APC-S-6, Section III.C.5.a., c.,&d.)

SECTION 5. MONITORING, RECORDKEEPING & REPORTING REQUIREMENTS

A. General Monitoring, Recordkeeping and Reporting Requirements

- 5.A.1 The permittee shall install, maintain, and operate equipment and/or institute procedures as necessary to perform the monitoring and recordkeeping specified below.
- 5.A.2 In addition to the recordkeeping specified below, the permittee shall include with all records of required monitoring information the following:
- (a) the date, place as defined in the permit, and time of sampling or measurements;
 - (b) the date(s) analyses were performed;
 - (c) the company or entity that performed the analyses;
 - (d) the analytical techniques or methods used;
 - (e) the results of such analyses; and
 - (f) the operating conditions existing at the time of sampling or measurement. (Ref.: APC-S-6, Section III.A.3.b.(1)(a)-(f))
- 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.: APC-S-6, Section III.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 APC-S-6, Section II.E. (Ref.: APC-S-6, Section III.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.: APC-S-6, Section III.A.3.c.(2))

- 5.A.6 Except as otherwise specified herein, the permittee shall perform emissions sampling and analysis in accordance with EPA Test Methods and with any continuous emission monitoring requirements, if applicable. All test methods shall be those versions or their equivalents approved by the DEQ and the EPA.
- 5.A.7 The permittee shall maintain records of any alterations, additions, or changes in equipment or operation.

B. Specific Monitoring and Recordkeeping Requirements

Emission Point(s)	Pollutant/Parameter Monitored	Monitoring/Recordkeeping Requirement	Condition Number	Applicable Requirement
AA-001 AA-002	NSPS Subpart GG Testing	Comply with the test methods and procedures listed in 40 CFR 60, Subpart A, Section 60.8 and Subpart GG, Section 60.335	5.B.1	40 CFR 72-78 Acid Rain Permit Issued: <u>February 17, 2006</u>
AA-003 AA-004	Startup, Shutdown	The permittee shall keep records of the time and date of such startups and shutdowns, duration and confirmation that good pollution control practices were followed as specified in 40 CFR 60, 60.7 and 40 CFR 75. The permittee shall submit semiannual reports providing the summary of startups and shutdowns, duration and confirmation that good air pollution control practices were followed.	5.B.2	Federally Enforceable Permit to Construct for the Prevention of Significant Deterioration Authority; Issued: <u>April 19, 2001</u> Modified: <u>February 17, 2006</u>
	Monitoring for SO ₂	Comply with the SO ₂ monitoring requirements listed in 40 CFR 60, Subpart GG, Section 60.334. As allowed by 40 CFR 60.334(h)(3), the permittee shall not be required to monitor the total sulfur content of the gaseous fuel combusted in the turbines if the gaseous fuel is demonstrated to meet the definition of natural gas in 40 CFR 60.331(u). The permittee shall use the following source of information to make the required demonstration: The gas quality characteristics in a current, valid purchase contract, tariff sheet or transportation contract for the gaseous fuel, specifying that the maximum total sulfur content of the fuel is 20.0 grains/100 scf or less.	5.B.3	40 CFR 60.330 – Subpart GG for Stationary Gas Turbines 40 CFR 60.8 – Subpart A Performance Tests
		Should the permittee no longer hold a current, valid purchase contract, tariff sheet or transportation contract for the gaseous fuel, specifying that the maximum total sulfur content of the fuel is 20.0 grains/100 scf or less, the permittee may propose and implement, with 30 days advanced notice, one of the other SO ₂ monitoring provisions as approved in the New Source Performance Standards, 40 CFR 60.334 without modifying this permit.		
AA-001 AA-002 AA-003 AA-004 (cont)	Monitoring for NO _x , CO, O ₂	Demonstrate compliance with nitrogen oxides, and carbon monoxide emission limitations using CEMS. Demonstrating compliance with NO _x and CO limits using CEMS data in lieu of EPA Reference Methods is an acceptable practice provided that the permittee meets the guidelines established in EPA's general guidance on "Alternative Testing and Monitoring Procedures for Combustion Turbines Regulated under New Source Performance Standards".	5.B.5	40 CFR 72-78 Acid Rain Permit Issued: <u>Issue Date</u> Federally Enforceable Permit to Construct for the Prevention of Significant

Emission Point(s)	Pollutant/Parameter Monitored	Monitoring/Recordkeeping Requirement	Condition Number	Applicable Requirement
		Install, calibrate, maintain and operate continuous monitoring systems for NO _x (as specified in 40 CFR 60.334, Appendix B and 40 CFR 75),	5.B.6	Deterioration Authority; Issued: <u>April 19, 2001</u> Modified: <u>February 17, 2006</u>
		Install, calibrate, maintain and operate continuous monitoring systems for CO (as specified in 40 CFR 60, Appendix B and Appendix F) and O ₂ (as specified in 40 CFR 60, Appendix B, and 40 CFR 75).		40 CFR 60.330 – Subpart GG for Stationary Gas Turbines
		These NO _x , CO, and O ₂ CEM systems shall also be capable of and certified to accurately read/measure NO _x and CO concentrations to comply with the tons/year limit. Within 60 days of the date of issuance of this permit, the permittee shall submit a data substitution protocol for the CEMs in case of malfunction to calculate the tons/year emissions for NO _x and CO as specified. Within 90 days of approval of the protocol, the permittee will commence configuring the Data Acquisition Handling System (DAHS) in accordance with the approved protocol. The permittee will use this data to calculate the tons/year for NO _x and CO	5.B.7	40 CFR 60.8 – Subpart A Performance Tests

5.B.1 For Emission Points AA-001, AA-002, AA-003 and AA-004, the permittee shall comply with the test methods and procedures listed in 40 CFR 60, Subpart A, Sections 60.8 and Subpart GG, Section 60.335.

(Ref.: PSD Permit to Construct Issued April 19, 2001 and modified February 17, 2006).

5.B.2 For Emission Points AA-001, AA-002, AA-003 and AA-004, the permittee shall keep a record of the duration of all startups or shutdowns of the combustion turbines. These records shall include the time and date of such startups and shutdowns and confirmation that good air pollution control practices were followed.

(Ref.: PSD Permit to Construct Issued April 19, 2001 and modified February 17, 2006).

5.B.3 For Emission Points AA-001, AA-002, AA-003 and AA-004, the permittee shall comply with the sulfur dioxide monitoring, test methods and procedures listed in 40 CFR 60, Subpart A, Section 60.8 and Subpart GG, Section 60.334. Specifically:

As allowed by 40 CFR 60.334(h)(3), the permittee shall not be required to monitor the total sulfur content of the gaseous fuel combusted in the turbines if the gaseous fuel is demonstrated to meet the definition of natural gas in 40 CFR 60.331(u). The permittee shall use the following source of information to make the required demonstration:

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

(Ref.: PSD Permit to Construct Issued April 19, 2001 and modified February 17, 2006).

- 5.B.4 For Emission Points AA-001, AA-002, AA-003 and AA-004, should the permittee no longer hold a current, valid purchase contract, tariff sheet or transportation contract for the gaseous fuel, specifying that the maximum total sulfur content of the fuel is 20.0 grains/100 scf or less, the permittee may propose and implement, with 30 days advanced notice, one of the other SO₂ monitoring provisions as approved in the New Source Performance Standards, 40 CFR 60.334 without modifying this permit.
(Ref.: PSD Permit to Construct Issued April 19, 2001 and modified February 17, 2006).
- 5.B.5 For Emission Points AA-001, AA-002, AA-003 and AA-004, the permittee shall demonstrate compliance with nitrogen oxides, and carbon monoxide emission limitations using CEMS. Demonstrating compliance with NO_x and CO limits using CEMs data in lieu of EPA Reference Methods is an acceptable practice provided that the permittee meets the guidelines established in EPA's general guidance on "Alternative Testing and Monitoring Procedures for Combustion Turbines Regulated under New Source Performance Standards". This includes use of reference method test data collected during the Relative Accuracy Test Audits (RATA) required under 40 CFR 75.
(Ref.: PSD Permit to Construct Issued April 19, 2001 and modified February 17, 2006).
- 5.B.6 For Emission Points AA-001, AA-002, AA-003 and AA-004, the permittee shall install, calibrate, maintain and operate continuous monitoring systems for NO_x (as specified in 40 CFR 60.334, Appendix B and 40 CFR 75), The monitoring systems must comply with all applicable requirements specified in 60.334, 60.13, and Appendix B of 40 CFR 60 and 40 CFR 75. In addition, the permittee must comply with the reporting and recordkeeping requirements specified in 40 CFR 60.7 and 40 CFR 75.

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

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

(Ref.: PSD Permit to Construct Issued April 19, 2001 and modified February 17, 2006).

- 5.B.7 For Emission Points AA-001, AA-002, AA-003 and AA-004, these NO_x, CO, and O₂ CEM systems shall also be capable of and certified to accurately read/measure NO_x and CO concentrations to comply with the tons/year limit. The permittee will use this data to calculate the tons/year for NO_x and CO.
(Ref.: PSD Permit to Construct Issued April 19, 2001 and modified February 17, 2006).

C. Specific Reporting Requirements

Emission Point(s)	Pollutant/Parameter Monitored	Reporting Requirement	Condition Number	Applicable Requirement
AA-001 AA-002 AA-003 AA-004	Notification Requirements	Comply with the reporting requirements listed in 40 CFR 60.7 Subpart A, 40 CFR 60.330 Subpart GG, and 40 CFR 75	5.C.1	40 CFR 72-78 Acid Rain Permit Issued: <u>February 17, 2006</u>
	Submit Reports on Annual NO _x and CO Emissions	Submit semiannual reports providing the summary of emissions in tons/year of NO _x and CO based on CEM data for each consecutive 365-day rolling total in accordance with the provision 5.A.4 above.	5.C.2	Federally Enforceable Permit to Construct for the Prevention of Significant Deterioration Authority; Issued: <u>April 19, 2001</u> Modified: <u>February 17, 2006</u>
	Submit Startup/Shutdown Records	Submit startup and shutdown duration information as specified in 40 CFR 60.7 and 40 CFR 75 in accordance with the provision 5.A.4 above.	5.C.3	40 CFR 60.330 – Subpart GG for Stationary Gas Turbines 40 CFR 60.8 – Subpart A Performance Tests

5.C.1 For Emission Points AA-001, AA-002, AA-003 and AA-004, the permittee shall comply with the reporting requirements listed in 40 CFR 60.7 Subpart A, 40 CFR 60.330 Subpart GG, and 40 CFR 75
(Ref.: PSD Permit to Construct Issued April 19, 2001 and modified February 17, 2006).

5.C.2 For Emission Points AA-001, AA-002, AA-003 and AA-004, the permittee shall submit, in accordance with the provision 5.A.4, semiannual reports providing the summary of emissions in tons/year of NO_x and CO based on CEM data for each consecutive 365-day rolling total.
(Ref.: PSD Permit to Construct Issued April 19, 2001 and modified February 17, 2006).

5.C.3 For Emission Points AA-001, AA-002, AA-003 and AA-004, the permittee shall submit startup and shutdown duration information as specified in 40 CFR 60.7 and 40 CFR 75 in accordance with the provision 5.A.4 above.
(Ref.: PSD Permit to Construct Issued April 19, 2001 and modified February 17, 2006).

SECTION 6. ALTERNATIVE OPERATING SCENARIOS

15093 PER20100001

6.1 None permitted.

SECTION 7. TITLE VI REQUIREMENTS

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

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

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

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

SECTION 8. ACID RAIN REQUIREMENTS

- 8.1 The permittee shall comply with all requirements of the Acid Rain Permit attached as Appendix B of this permit. All conditions of the Acid Rain Permit are effective for the dates specified in the Acid Rain Permit; however, these conditions may be revised by the DEQ during the permitted period.

APPENDIX A

List of Abbreviations Used In this Permit

APC-S-1	Air Emission Regulations for the Prevention, Abatement, and Control of Air Contaminants
APC-S-2	Permit Regulations for the Construction and/or Operation of Air Emissions Equipment
APC-S-3	Regulations for the Prevention of Air Pollution Emergency Episodes
APC-S-4	Ambient Air Quality Standards
APC-S-5	Regulations for the Prevention of Significant Deterioration of Air Quality
APC-S-6	Air Emissions Operating Permit Regulations for the Purposes of Title V of the Federal Clean Air Act
APC-S-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.

ACID RAIN PERMIT

Issued to: Clarksdale Public Utilities, Crossroads Energy Center
Operated by: Clarksdale Public Utilities, Crossroads Energy Center
ORIS code: 55395
Effective: DEC 0 6 2011 through NOV 3 0 2016

Summary of Previous Actions:

This page will be replaced to document new actions each time a new action is taken by the MDEQ. This is the initial permitting action being undertaken:

Action	Date
1 Draft permit for public and EPA comment.	November 19, 2001
2 Final permit issued.	January 2, 2002
3 Renewal of Title V and Acid Rain Permit.	February 17, 2006

Present Action

1. Permit renewal.

Signature 

DEC 0 6 2011
Date

Harry M. Wilson, III, PE, Chief
Environmental Permits Division
Mississippi Department of Environmental Quality
P.O. Box 2261
Jackson, MS 39225
Telephone: (601)961-5171 Fax: (601)961-5703

ACID RAIN PERMIT

Issued to: Clarksdale Public Utilities, Crossroads Energy Center
Operated by: Clarksdale Public Utilities, Crossroads Energy Center
ORIS code: 55395

Effective: DEC 0 6 2011 through NOV 3 0 2016

ACID RAIN PERMIT CONTENTS

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

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 Federal 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, Regulation APC-S-6, and the State of Mississippi Acid Rain Program Permit Regulations for Purposes of Title VI of the Federal Clean Air Act, Regulation APC-S-7.

SO₂ ALLOWANCE ALLOCATION
AND
NO_x REQUIREMENTS
FOR EACH AFFECTED UNIT

		2011	2012	2013	2014	2015
Unit AA-001 (CT-1)	SO ₂ allowances, under Tables 2, 3, or 4 of 40 CFR 73	NA	NA	NA	NA	NA
Unit AA-002 (CT-2)						
Unit AA-003 (CT-3)	NO _x Limit	NA	NA	NA	NA	NA
Unit AA-004 (CT-4)						

COMMENTS, NOTES AND JUSTIFICATION

All affected units are natural gas fired units; therefore, the affected units are not subject to the NO_x requirements outlined in 40 CFR 75. Additionally, these are new units that were not listed in 40'CFR Part 73, Tables 2, 3, or 4, and have not been allocated any SO₂ allowances.

PERMIT APPLICATION

(Attached)