

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

TO OPERATE AIR EMISSIONS EQUIPMENT

THIS CERTIFIES THAT

**Entergy Mississippi, Inc.
Rex Brown Steam Electric Station
1960 West Northside Drive
Jackson, Mississippi
Hinds 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: July 7, 2010

Effective Date: As specified herein.

MISSISSIPPI ENVIRONMENTAL QUALITY PERMIT BOARD



AUTHORIZED SIGNATURE

MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY

Expires: June 30, 2015
Modified: MAR 19 2012

Permit No.: 1080-00112

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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.: 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

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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 judgements where such judgements 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.)

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- 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.)

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- 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.

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- (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;

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- (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

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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	474 MMBtu/hr Natural Gas Fired Combustion Engineering Generating Unit Boiler. (Ref. No. C1, Unit #1)
AA-003	852 MMBtu/hr Natural Gas, No.2 Fuel Oil, No.6 Fuel Oil Fired Babcock and Wilcox Boiler. (Ref. No. C3, Unit #3)
AA-004	2,130 MMBtu/hr Natural Gas, No. 2 Fuel Oil, No. 6 Fuel Oil Fired Babcock and Wilcox Boiler with two stacks. (Ref. No. C4A and C4B, Unit #4)
AA-005	197.2 MMBtu/hr No. 2 Fuel Oil Fired Combustion Turbine. (Ref. No. C5, Unit #5)
AA-006	275 hp (1.925 MMBtu/hr) Diesel Fired Compression Ignition Emergency Stationary Internal Combustion Engine. (Ref. No. C6, Emergency Generator)
AA-007	A 2011 model year 25.2 hp Diesel Fired Compression Ignition (CI) Internal Combustion Engine (ICE) used only as a Black start (Emergency) engine. (Ref. No. C8, Unit #5 Air Compressor Engine)
AA-008	1670 kgal/hr Mechanical Draft Cooling Tower. (Ref. No. X7, Unit #1 Cooling Tower)

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 Condition 3.A.1. This shall not apply to vision obscuration caused by uncombined water droplets. (Ref.: APC-S-1, Section 3.2)
- 3.A.3 No permit revision shall be required for increases in emissions that are authorized by allowances acquired pursuant to the acid rain program, provided that such increases do not require a permit revision under any other applicable requirement. (Ref.: APC-S-6, Section III.A.4.(a))
- 3.A.4 Where an applicable requirement of the Federal Act is more stringent than an applicable requirement of regulations promulgated under Title IV of the Federal Act, both provisions shall be incorporated into the permit and shall be enforceable by the Administrator and the DEQ. (Ref.: APC-S-6, Section III.A.1.(b))

B. Emission Point Specific Emission Limitations & Standards

Emission Point(s)	Applicable Requirement	Condition Number(s)	Pollutant/Parameter	Limit/Standard
AA-001, AA-003, & AA-004	Clean Air Interstate Rule (CAIR) 40 CFR Part 96	3.B.8	SO ₂ , NO _x	CAIR Requirements
AA-001	APC-S-1, Section 4.1(b)	3.B.1	SO ₂	0.0006 lb/MMBtu, not to exceed 0.3 lb/hr, or 1.3 TPY
	40 CFR 72	8.1	SO ₂	Acid Rain Permit
	APC-S-1, Section 3.4(a)(2)	3.B.2	PM	0.32 lb/MMBtu and $E=0.8808 * I^{-0.1667}$
AA-003	APC-S-1, Section 4.1(a)	3.B.3	SO ₂	4.8 lb/MMBtu,
	40 CFR 72	8.1	SO ₂	Acid Rain Permit
	APC-S-1, Section 3.4(a)(2)	3.B.2	PM	0.29 lb/MMBtu, and $E=0.8808 * I^{-0.1667}$
AA-004	APC-S-1, Section 4.1(a)	3.B.3	SO ₂	4.8 lb/MMBtu,
	40 CFR 72	8.1	SO ₂	Acid Rain Permit
	APC-S-1, Section 3.4(a)(2)	3.B.2	PM	0.25 lb/MMBtu, and $E=0.8808 * I^{-0.1667}$
AA-005	APC-S-1, Section 4.1(a)	3.B.3	SO ₂	4.8 lb/MMBtu,
	APC-S-1, Section 3.4(a)(2)	3.B.2	PM	0.37 lb/MMBtu and $E=0.8808 * I^{-0.1667}$
	40 CFR 63, Subpart YYYYY (§63.6090(b)(4))	3.B.4	HAPs	Existing sources are exempt from requirements of Subpart A and YYYYY.
AA-006 and AA-007	APC-S-1, Section 4.1(a)	3.B.3	SO ₂	4.8 lb/MMBtu,
	APC-S-1, Section 3.4(a)(1)	3.B.5	PM	0.6 lb/MMBtu,
AA-006	NESHAP Subpart ZZZZ, 40 CFR 63.6602, and Table 2c of Subpart ZZZZ Beginning May 3, 2013	3.B.7	HAP	Operating/Maintenance Requirements
AA-007	NESHAP Subpart ZZZZ 40 CFR 63.6585(c)	3.B.7	HAP	Compliance via 40 CFR Part 60, Subpart III as specifically determined by 40 CFR 63.6590(c)

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Emission Point(s)	Applicable Requirement	Condition Number(s)	Pollutant/Parameter	Limit/Standard
	40 CFR Part 60, Subpart III, 60.4200(a)(2)(i)	3.B.9		General Applicability
	40 CFR Part 60, Subpart III, 60.4205(b) via 60.4202			
	40 CFR Part 60, Subpart III, 60.4211(f)	3.B.10	Operating Limitation	≤100 hours per year of non-emergency operating.
	40 CFR Part 60, Subpart III, 60.4206			Maintain compliance with 40 CFR Part 60, Subpart III for the entire life of the engine
	40 CFR Part 60, Subpart III, 60.4207(b) and 40 CFR 80.510(b)	3.B.11	Fuel Limitation	15 ppm sulfur, 0.40 Cetane Index minimum or 35% Aromatics maximum
AA-008	APC-S-1, Section 3.6(a)	3.B.6	PM	$E = 4.1(p)^{0.67}$

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- 3.B.1 For Emission Point AA-001, no person shall cause or permit the burning of fuel in any fuel burning equipment that results in an average emission of sulfur dioxide from any calendar year at a rate greater than was emitted by said fuel burning equipment for the corresponding calendar year 1970 unless otherwise authorized by the Commission. Installations under construction on January 25, 1972, are excluded from this requirement. (Ref.: APC-S-1, Section 4.1(b))
- 3.B.2 For Emission Points AA-001, AA-003, AA-004, and AA-005, except as otherwise specified or limited herein, 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.: APC-S-1, Section 3.4(a)(2))

- 3.B.3 For Emission Points AA-003, AA-004, AA-005, AA-006 and AA-007, except as otherwise specified or limited herein, 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.: APC-S-1, Section 4.1(a))
- 3.B.4 For Emission Point AA-005, the permittee is subject to 40 CFR 63, Subpart YYYY – National Emission Standards for Hazardous Air Pollutants for Stationary Combustion Turbines; however, existing stationary combustion turbines in all subcategories are exempt from the requirements of Subpart A and Subpart YYYY. (Ref. 40 CFR 63.6090(b)(4))
- 3.B.5 For Emission Points AA-006 and AA-007, except as otherwise specified or limited herein, 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.: APC-S-1, Section 3.4(a)(1))
- 3.B.6 For Emission Point AA-008, except as otherwise specified or limited herein, the permittee shall not cause, permit, or allow the emission from any manufacturing process, in any one hour, particulate matter in total quantities in excess of the amount determined by the relationship:

$$E = 4.1(p)^{0.67}$$

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where E is the emission rate in pounds per hour and p is the process weight input rate in tons per hour. If the process weight input rate (p) changes, the emissions rate (E) changes correspondingly. (Ref.: APC-S-1, Section 3.6(a))

3.B.7 Emission Points AA-006 and AA-007, are subject to the National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (RICE), 40 CFR Part 63, Subpart ZZZZ.

- (a) Emission Point AA-006, is an existing compression ignition (CI) emergency stationary RICE with a site rating less than 500 brake HP and beginning on May 3, 2013 (See Condition 4.3), must comply with the following requirements except during periods of startup:
- 1) Change oil and filter every 500 hours of operation or annually, whichever comes first;
 - 2) Inspect air cleaner every 1,000 hours of operation or annually, whichever comes first;
 - 3) Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.

The permittee may choose to utilize an oil analysis program as out lined in Condition 5.B.4(c) of this permit in order to extend the specified oil change requirement in (a) above.

The permittee may also petition the DEQ for us of an alternative work practice to (c) above and/or to the operational requirements for startup. (Ref.: 40 CFR 63.6602, and Table 2c of Subpart ZZZZ)

- (b) Emission Point AA-007, is a new diesel fired compression ignition (CI) internal combustion engine (ICE). The permit by complying with 40 CFR Part 60, Subpart IIII requirements will have no further requirements under the provisions of 40 CFR Part 63, Subpart ZZZZ, National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (RICE). (Ref.: 40 CFR 63.6590(c))

3.B.8 For Emission Points AA-001, AA-003, and AA-004, the permittee is subject to the requirements of APC-S-1, Section 14.1, and the clean Air Interstate Rule (CAIR) as set forth in 40 CFR 51.123, 40 CFR 51.124, 40 CFR 96.102 through 40 CFR 96.388.

- (a) Regarding the **CAIR NO_x Annual Trading Program**, the permittee must comply with all the standard requirements specified in §96.106 and permit requirements specified in §96.120 through §96.124. The permittee shall also comply with all monitoring and reporting requirements as specified in §96.170 through §96.175.
- (b) Regarding the **CAIR SO₂ Annual Trading Program**, the permittee must comply with all of the applicable requirements specified in §96.206 and permit requirements specified in §96.220 through §96.224. The permittee shall also comply with all monitoring and reporting requirements as specified in §96.270 through §96.275.

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- (c) Regarding the CAIR NO_x *Ozone Season Trading Program*, the permittee must comply with all of the standard requirements specified in §96.306 and permit requirements specified in §96.320 through §96.324. The permittee shall also comply with all monitoring and reporting requirements as specified in §96.370 through §96.375. (Ref.: Clean Air Interstate Rule (CAIR), 40 CFR Part 96)
- 3.B.9 For Emission Point AA-007, the permittee is subject to 40 CFR Part 60, Subpart III, Standards of Performance for Stationary Compression Ignition Internal Combustion Engines and shall comply with all applicable requirements. (Ref.: 40 CFR 60.4200(a)(2)(i))
- 3.B.10 For Emission Point AA-007, the permittee cannot exceed 100 hours per year of non-emergency operating. (Ref.: 40 CFR 60.4211(f))
- 3.B.11 For Emission Point AA-007, the permittee shall burn only fuel that meets either 15 ppm Sulfur, 0.40 Cetane Index minimum or 35% Aromatics maximum. (Ref.: 40 CFR 60.4207(b) and 40 CFR 80.510(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	PM	0.6 lbs/MMBtu
APC-S-1, Section 4.1(a)	3.C.2	SO ₂	4.8 lbs/MMBtu
APC-S-1, Section 3.6(a)	3.C.3	PM	$E = 4.1(p)^{0.67}$

- 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.: APC-S-1, Section 3.4(a)(1))
- 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.: APC-S-1, Section 4.1(a))
- 3.C.3 Except as otherwise specified or limited herein, the permittee shall not cause, permit, or allow the emission from any manufacturing process, in any one hour from any point source, particulate matter in total quantities in excess of the amount determined by the relationship:

$$E = 4.1(p)^{0.67}$$

where E is the emission rate in pounds per hour and p is the process weight input rate in tons per hour. If the process weight input rate (p) changes, the emissions rate (E) changes correspondingly. (Ref.: APC-S-1, Section 3.6(a))

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.)
- 4.3 The permittee is subject to and shall comply with the applicable requirements of 40 CFR Subpart ZZZZ – National Emission Standards for Hazardous Air Pollutants for Reciprocating Internal Combustion Engines (RICE). The permittee shall comply with the requirements of Subpart ZZZZ as specified in Conditions 3.B.7, 4.3, 5.B.4, 5.B.5, and 5.B.6 of this permit no later than **May 3, 2013**.

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 as otherwise specified herein, 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 March 1, and September 1, 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))

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- 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-003, AA-004, AA-005, AA-006, and AA-007	PM, SO ₂ , & Opacity/Fuel Monitoring	Fuel Quantity and Quality (Monitoring, Recordkeeping, and Reporting)	5.B.1	Mississippi Air Regulation APC-S-6, Section III.A.3.a(2)
AA-003, and AA-004	PM, SO ₂ , & Opacity/Periodic Stack Testing	Stack testing in accordance with EPA Reference Methods 1-5, 6, and 9	5.B.2	Mississippi Air Regulation APC-S-6, Section III.A.3.a(2)
AA-003, AA-004, AA-005, AA-006, and AA-007	PM/Opacity	Weekly visible observations which may include the performance of a Visible Emission Evaluation (VEE) in accordance with EPA Reference Method 9 if emissions are observed.	5.B.3	Mississippi Air Regulation APC-S-6, Section III.A.3.a(2)
AA-006	HAP's	Monitoring, Recordkeeping and Reporting	5.B.4	40 CFR 63.6625(e), (f), and (i)
AA-006	HAP's	Monitoring, Recordkeeping and Reporting	5.B.5	40 CFR 63.6640(f)(1) through (4)
AA-006	HAP's	Monitoring, Recordkeeping and Reporting	5.B.6	40 CFR 63.6655(e) and (f) and 63.6660 (b) and (c)
AA-006	HAP's	Monitoring, Recordkeeping and Reporting	5.B.7	40 CFR 63.6650
AA-007	Hours of operation	Monitoring, Recordkeeping, and Reporting	5.B.8	Mississippi Air Regulation APC-S-6, Section III.A.3.a(2)

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Emission Point(s)	Pollutant/Parameter Monitored	Monitoring/Recordkeeping Requirement	Condition Number	Applicable Requirement
	Hours of operation	Maintain the Non-Resettable Hour Meter	5.B.9	40 CFR 60.4209(a)
	Proper Operations	Compliance Requirements	5.B.10	40 CFR 60.4211(a) & (c)
	Hours of operation	Maintenance and Readiness Testing	5.B.11	40 CFR 60.4211(f)

5.B.1 For Emission Points AA-001, AA-003, and AA-004, the permittee shall record electronically utilizing continuous emission monitors (CEMs) installed and operating to comply with the Acid Rain Program (Title IV) the type of fuel being used in each of these emission points daily, as well as the fuel flow, and fuel sulfur content.

For Emission Point AA-005, AA-006, and AA-007, the permittee shall keep records of all fuels burned on a daily basis. These records shall consist of fuel type and quantity, and the heating value (Btu/gal or Btu/ft³). Additionally, when burning fuel oil, the permittee shall maintain records to document the sulfur content (% by weight) for fuel oil burned on a daily basis or for each lot or shipment received. and quantity and the heating value (Btu/gal or Btu/ft³).

These records shall be kept in log form or in a similar manner and maintained in accordance with Condition 5.A.3 and shall be made available upon request by DEQ personnel. The permittee shall submit a summarized report in accordance with Condition 5.A.4. (Ref.: Mississippi Air Regulation APC-S-6, Section III.A.3.a(2))

5.B.2 For Emission Points AA-003, and AA-004, the permittee shall demonstrate compliance with particulate matter (PM), sulfur dioxide (SO₂), and Opacity emission limitations by performing a stack test in accordance with EPA Reference Methods 1-5, 6C, and Method 9, respectively, within sixty (60) days of burning No. 6 or No.2 fuel oil for seven (7) consecutive days. All testing is to be done while the facility is burning No. 6 or No. 2 fuel oil. After the initial compliance test for particulate matter and sulfur dioxide, the permittee shall perform these tests biennially using the same criteria regarding the burning of oil as previously stated. In the event that no oil is burned during the biennial period, the compliance test shall be performed at the next occasion on which oil is burned consistent with criteria above. For all other emission points, the permittee shall submit said test report within 60 days of performance of the test.

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For all other emission points, the permittee shall submit said test report within 45 days of performance of the test. For the purpose of compliance demonstration, the permittee shall operate the sources within 20% of their maximum rated capacity or at a rate identified in the pretest conference.

If the permittee plans to use a test method, procedure, or operating condition that differs from the requirements of this permit herein, then a pretest conference at least thirty (30) days prior to the scheduled test date is needed to ensure that all test methods and procedures are acceptable to the DEQ. Also, the DEQ must be notified prior to the scheduled test date. At least TEN (10) DAYS notice should be given so that an observer may be scheduled to witness the test(s). (Ref.: APC-S-2, Section II.B.12 and Mississippi Air Regulation APC-S-6, Section III.A.3.a(2))

- 5.B.3 For Emission Points AA-003, AA-004, AA-005, AA-006, and AA-007, the permittee shall perform visual observations of emissions while the emission points are operating and combusting No. 6 or No. 2 fuel oil on a weekly basis. For Emission Points AA-006 and AA-007 the permittee shall only comply with this requirement upon equaling or exceeding operation duration of 30 minutes. If any visible emissions are detected during an observation period of six (6) consecutive minutes, a visible emission evaluation (VEE) shall be performed using EPA Reference Method 9. If a VEE is performed using EPA Reference Method 9, then the observation period shall consist of a minimum of 18 consecutive minutes. Further, the permittee shall maintain a record and/or a log documenting all visual observations/tests, the nature and cause of any visible emissions, any corrective action(s) taken to prevent or minimize the emissions, and the date and time when visible emission observations were conducted. These records and/or log shall be maintained in accordance with Condition 5.A.3 and a summarized report submitted in accordance with Condition 5.A.4 and made available upon request by DEQ. (Ref.: Mississippi Air Regulation APC-S-6, Section III.A.3.a(2))
- 5.B.4 Beginning May 3, 2013 (See Condition 4.3), for Emission Point AA-006, the permittee shall comply with the following monitoring, operating and maintenance requirements:
- (a) Operating and maintain the stationary RICE in accordance with the manufacturer's emission-related written instruction or must develop a maintenance plan that provides to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions;
 - (b) The permittee must install a non-resettable hour meter, if not already installed;
 - (c) During periods of startup, the permittee shall minimize the engine's time spent at idle and minimize the engine's startup time at startup 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.

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- (d) The permittee may utilize an oil analysis program in order to extend the specified oil change requirement from Condition 3.B.7(a) provided the analysis analyzes the parameters identified in 63.6625(i).

(Ref.: 40 CFR 63.6625(e), (f), (h) and (i))

5.B.5 Beginning May 3, 2013 (See Condition 4.3), for Emission Point AA-006, the permittee shall operate the engine according to the following:

- (a) Any operation other than emergency operation, maintenance and testing and operation in non-emergency situations for 50 hours per year is prohibited;
- (b) There is no operating limit on the use of the engine during an emergency situation;
- (c) The engine may be operated for the purpose of maintenance checks and readiness testing in accordance with vendor, manufacturer, State or Federal recommendations. Such testing is limited to 100 hours per year.
- (d) The engine may be operated up to 50 hours per year in non-emergency situations; however, those 50 hours count towards the 100 hour limit in (c) above. The 50 hours per year for non-emergency operation can not be used to cover the power usage provisions outlined in 63.6640(f)(4).

(Ref.: 40 CFR 63.6640(f)(1) through (4))

5.B.6 Beginning May 3, 2013 (See Condition 4.3), for Emission Point AA-006, the permittee shall maintain the following records and keep each readily accessible for at least five years after the date of each occurrence:

- a) All maintenance records that demonstrate the engine was operated and maintained in accordance with the maintenance plan identified in 5.B.4(a);
- b) The hours of operation of the engine recorded through the non-resettable hour meter. The permittee must document how many hours are spent for emergency operation, including what classified the event as an emergency, and how many hours are non-emergency operations.

(Ref.: 40 CFR 63.6655(e) and (f) and 63.6660 (b) and (c))

5.B.7 Beginning May 3, 2013 (See Condition 4.3), for Emission Point AA-006, the permittee shall submit a semiannual compliance report in accordance with the applicable requirements in 63.6650 and Table 7 of Subpart ZZZZ. (Ref.: 40 CFR 63.6650)

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- 5.B.8 For Emission Point AA-007, the permittee shall monitor all periods of operation and the duration. Records of this monitoring shall be maintained in log form and shall be made available upon request by DEQ personnel. A summarized report of this monitoring shall be maintained in accordance with Condition 5.A.3 and submitted in accordance with Condition 5.A.4. (Ref.: APC-S-6, Section III.A.3(2))
- 5.B.9 For Emission Point AA-007, the permittee shall install a non-resettable hour meter prior to start-up of the engine. (Ref.: 40 CFR 60.4209(a))
- 5.B.10 For Emission Point AA-007, the permittee shall operate and maintain the stationary CI internal combustion engine according to the manufacturer's written instructions or procedures developed by the owner and operator that are approved by the engine manufacturer. In addition, the permittee may only change those settings that are permitted by the manufacturer. You must also meet the requirements of 40 CFR Parts 89, 94, and/or 1068, as they apply to you. Furthermore the permittee shall comply with the emission standards specified in 60.4204(b) or 60.4205(b) (Ref. 40 CFR 60.4211(a) and (c))
- 5.B.11 For Emission Point AA-007, the permittee shall comply with 40 CFR 60.4211(f) and may perform maintenance checks and readiness testing for no more than 100 hours per year, provided that the tests are recommended by Federal, State, or local government, the manufacturer, the vendor, or the insurance company. Emission Point AA-007 may be operated up to 50 hours per year in non-emergency situations, but those 50 hours are counted towards the 100 hours per year provided for maintenance and testing. The 50 hours per year for non-emergency situations cannot be used for peak shaving or to generate income for a facility to supply power to an electric grid or otherwise supply non-emergency power as part of a financial arrangement with another entity. The permittee is prohibited from operating the emergency engine other than emergency operations, maintenance and testing, and operation in non-emergency situations for 50 hours per year. (Ref. 40 CFR 60.4211(f))

SECTION 6. ALTERNATIVE OPERATING SCENARIOS

6.1 None permitted.

SECTION 7. TITLE VI REQUIREMENTS

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

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

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- (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. TITLE IV REQUIREMENTS

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

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
NEESHAP	National Emissions Standards For Hazardous Air Pollutants, 40 CFR 61 or National Emission Standards For Hazardous Air Pollutants for Source Categories, 40 CFR 63
NM VOC	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 Fm 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

PHASE II ACID RAIN PERMIT

PHASE II ACID RAIN PERMIT

Issued to: Plant Rex Brown
Operated by: Entergy Mississippi, Inc.
ORIS code: 2053
Effective: _____ through June 30, 2015

Summary of Previous Actions:

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

- | | | |
|----|---|--------------------|
| 1) | Draft permit for public and EPA comment. | June 6, 1997 |
| 2) | Permit issuance. | September 12, 1997 |
| 3) | Draft permit for public and EPA comment for permit renewal. | October 1, 2004 |
| 4) | Permit issuance | January 7, 2005 |
| 5) | Draft Permit for public and EPA Comment for permit renewal | May 21, 2010 |

Present Action:

- 1) Permit issuance. _____

Signature

Date

Harry M. Wilson III, P.E., DEE
Chief, Environmental Permits Division
Mississippi Department of Environmental Quality
P.O. Box 10385
Jackson, MS 39289-0385
Telephone: (601) 961-5171 Facsimile: (601) 961-6612

PHASE II ACID RAIN PERMIT

Issued to: Plant Rex Brown
Operated by: Entergy Mississippi, Inc.
ORIS code: 2053
Effective: _____ through June 30, 2015

ACID RAIN PERMIT CONTENTS:

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

1) STATEMENT OF BASIS:

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

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

		2010	2011	2012	2013	2014
Unit 1A	SO₂ allowances, under Tables 2, 3, or 4 of 40 CFR Part 73.	6	6	6	6	6
Unit 1B		6	6	6	6	6
Unit 3		41	41	41	41	41
Unit 4		159	159	159	159	159
	NO_x limit	NA				

3) COMMENTS, NOTES AND JUSTIFICATIONS:

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

4) PERMIT APPLICATION:

Attached