STATE OF MISSISSIPPI
AIR POLLUTION CONTROL
TITLE V PERMIT

TO OPERATE AIR EMISSIONS EQUIPMENT

THIS CERTIFIES THAT

Resolute FP US Inc., Grenada Operations
1000 Papermill Road
Grenada, Mississippi
Grenada 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: December 21, 2015

Date Modified: MAR 1 2 2018

Effective Date: As specified herein.

MISSISSIPPI ENVIRONMENTAL QUALITY PERMIT BOARD

Krystal Rudolph

AUTHORIZED SIGNATURE
MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY

Expires: November 30, 2020 **Permit No.: 0960-00015**

902 PER20140001

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SECTION 1. GENERAL CONDITIONS

1.1 The permittee must comply with all conditions of this permit. Any permit noncompliance constitutes a violation of the Federal Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.A(6)(a).)

1.2 It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.A(6)(b).)

1.3 This permit and/or any part thereof may be modified, revoked, reopened, and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.A(6)(c).)

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

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

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

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

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

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

(c) Reopenings shall not be initiated before a notice of such intent is provided to the

Title V source by the DEQ at least 30 days in advance of the date that the permit is to be reopened, except that the Permit Board may provide a shorter time period in the case of an emergency.

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

1.5 The permittee shall furnish to the DEQ within a reasonable time any information the DEQ may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to the DEQ copies of records required to be kept by the permittee or, for information to be confidential, the permittee shall furnish such records to DEQ along with a claim of confidentiality. The permittee may furnish such records directly to the Administrator along with a claim of confidentiality. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.A(6)(e).)

1.6 This permit does not convey any property rights of any sort, or any exclusive privilege. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.A(6)(d).)

1.7 The provisions of this permit are severable. If any provision of this permit, or the application of any provision of this permit to any circumstances, is challenged or held invalid, the validity of the remaining permit provisions and/or portions thereof or their application to other persons or sets of circumstances, shall not be affected thereby. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.A(5).)

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

(a) For purposes of fee assessment and collection, the permittee shall elect for actual or allowable emissions to be used in determining the annual quantity of emissions unless the Commission determines by order that the method chosen by the applicant for calculating actual emissions fails to reasonably represent actual emissions. Actual emissions shall be calculated using emission monitoring data or direct emissions measurements for the pollutant(s); mass balance calculations such as the amounts of the pollutant(s) entering and leaving process equipment and where mass balance calculations can be supported by direct measurement of process parameters, such direct measurement data shall be supplied; published emission factors such as those relating release quantities to throughput or equipment type (e.g., air emission factors); or other approaches such as engineering calculations (e.g., estimating volatilization using published mathematical formulas) or best engineering judgments where such judgments are derived from process and/or emission data which supports the estimates of maximum actual emission. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.6.A(2).)

(b) If the Commission determines that there is not sufficient information available on a facility's emissions, the determination of the fee shall be based upon the permitted allowable emissions until such time as an adequate determination of actual emissions is made. Such determination may be made anytime within one year of the submittal of actual emissions data by the permittee. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.6.A(2).) If at any time within the year the Commission determines that the information submitted by the permittee on actual emissions is insufficient or incorrect, the permittee will be notified of the deficiencies and the adjusted fee schedule. Past due fees from the adjusted fee schedule will be paid on the next scheduled quarterly payment time. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.6.D(2).)

(c) The fee shall be due September 1 of each year. By July 1 of each year the permittee shall submit an inventory of emissions for the previous year on which the fee is to be assessed. The permittee may elect a quarterly payment method of four (4) equal payments; notification of the election of quarterly payments must be made to the DEQ by the first payment date of September 1. The permittee shall be liable for penalty as prescribed by State Law for failure to pay the fee or quarterly portion thereof by the date due. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.6.D.)

(d) If in disagreement with the calculation or applicability of the Title V permit fee, the permittee may petition the Commission in writing for a hearing in accordance with State Law. Any disputed portion of the fee for which a hearing has been requested will not incur any penalty or interest from and after the receipt by the Commission of the hearing petition. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.6.C.)

1.9 No permit revision shall be required under any approved economic incentives, marketable permits, emissions trading and other similar programs or processes for changes that are provided for in this permit. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.A(8).)

1.10 Any document required by this permit to be submitted to the DEQ shall contain a certification by a responsible official that states that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.2.E.)

1.11 The permittee shall allow the DEQ, or an authorized representative, upon the presentation of credentials and other documents as may be required by law, to perform the following:

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

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

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

(d) as authorized by the Federal Act, sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with the permit or applicable requirements. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.C(2).)

1.12 Except as otherwise specified or limited herein, the permittee shall have necessary sampling ports and ease of accessibility for any new air pollution control equipment, obtained after May 8, 1970, and vented to the atmosphere. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 1.3.I(1).)

1.13 Except as otherwise specified or limited herein, the permittee shall provide the necessary sampling ports and ease of accessibility when deemed necessary by the Permit Board for air pollution control equipment that was in existence prior to May 8, 1970. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 1.3.I(2).)

1.14 Compliance with the conditions of this permit shall be deemed compliance with any applicable requirements as of the date of permit issuance where such applicable requirements are included and are specifically identified in the permit or where the permit contains a determination, or summary thereof, by the Permit Board that requirements specifically identified previously are not applicable to the source. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.F(1).)

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

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

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

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

(d) the ability of EPA to obtain information from a source pursuant to Section 114 of the Federal Act. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.F(2).)

1.16 The permittee shall comply with the requirement to register a Risk Management Plan if permittee's facility is required pursuant to Section 112(r) of the Act to register such a plan. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.H.)

1.17 Expiration of this permit terminates the permittee's right to operate unless a timely and complete renewal application has been submitted. A timely application is one which is

submitted at least six (6) months prior to expiration of the Title V permit. If the permittee submits a timely and complete application, the failure to have a Title V permit is not a violation of regulations until the Permit Board takes final action on the permit application. This protection shall cease to apply if, subsequent to the completeness determination, the permittee fails to submit by the deadline specified in writing by the DEQ any additional information identified as being needed to process the application. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.4.C(2)., R. 6.4.B., and R. 6.2.A(1)(c).)

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

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

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

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

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

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

(3) any change in emissions, and

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

(d) the permit shield shall not apply to any Section 502(b)(10) change. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.4.F(1).)

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

1.20 Except as otherwise provided herein, a modification of the facility may require a Permit to Construct in accordance with the provisions of Regulations 11 Miss. Admin. Code Pt. 2, Ch. 2., "Permit Regulations for the Construction and/or Operation of Air Emissions Equipment", and may require modification of this permit in accordance with Regulations 11 Miss. Admin. Code Pt. 2, Ch. 6., "Air Emissions Operating Permit Regulations for the

Purposes of Title V of the Federal Clean Air Act". Modification is defined as "[a]ny physical change in or change in the method of operation of a facility which increases the actual emissions or the potential uncontrolled emissions of any air pollutant subject to regulation under the Federal Act emitted into the atmosphere by that facility or which results in the emission of any air pollutant subject to regulation under the Federal Act into the atmosphere not previously emitted. A physical change or change in the method of operation shall not include:

(a) routine maintenance, repair, and replacement;

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

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

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

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

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

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

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

1.21 Any change in ownership or operational control must be approved by the Permit Board. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.4.D(4).)

1.22 This permit is a Federally approved operating permit under Title V of the Federal Clean Air Act as amended in 1990. All terms and conditions, including any designed to limit the source's potential to emit, are enforceable by the Administrator and citizens under the Federal Act as well as the Commission. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.B(1).)

1.23 Except as otherwise specified or limited herein, the open burning of residential, commercial, institutional, or industrial solid waste, is prohibited. This prohibition does not

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

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

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

(c) Burning must not occur within 500 yards of commercial airport property, private air fields, or marked off-runway aircraft approach corridors unless written approval to conduct burning is secured from the proper airport authority, owner or operator. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 1.3.G.)

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

(a) Except as otherwise specified herein, an "emergency" means any situation arising from sudden and reasonably unforeseeable events beyond the control of the source, including acts of God, which situation requires immediate corrective action to restore normal operation, and that causes the source to exceed a technology-based emission limitation under the permit, due to unavoidable increases in emissions attributable to the emergency. An emergency shall not include noncompliance to the extent caused by improperly designed equipment, lack of preventative maintenance, careless or improper operation, or operator error.

(b) An emergency constitutes an affirmative defense to an action brought for noncompliance with such technology-based emission limitations if the conditions specified in (c) following are met.

(c) The affirmative defense of emergency shall be demonstrated through properly signed contemporaneous operating logs, or other relevant evidence that include information as follows:

(1) an emergency occurred and that the permittee can identify the cause(s) of the emergency;

(2) the permitted facility was at the time being properly operated;

(3) during the period of the emergency the permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards, or other requirements in the permit; and

(4) the permittee submitted notice of the emergency to the DEQ within 2 working days of the time when emission limitations were exceeded due to the emergency. This notice must contain a description of the emergency, any steps taken to mitigate emissions, and corrective actions taken.

(d) In any enforcement proceeding, the permittee seeking to establish the occurrence of an emergency has the burden of proof.

(e) This provision is in addition to any emergency or upset provision contained in any applicable requirement specified elsewhere herein. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.G.)

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

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

(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 11 Miss. Admin. Code Pt. 2, R. 1.2.HH. & R. 1.2.CC.)

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

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

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SECTION 2. EMISSION POINTS & POLLUTION CONTROL DEVICES

Emission Point	Description
AA-001	234.0 MMBtu/hr Bark/Woodwaste/Sludge/Natural Gas Fired boiler equipped with a venturi scrubber and a multicyclone.
AA-002	176.5 MMBtu/hr Natural Gas Fired Package Boiler.
AA-003	Thermomechanical Pulping Mill where pine wood chips are converted to paper quality pulp. This process involves applying heat and mechanical action to wood chips to break down the chips to a pulp.
AA-004	Paper Machine where market and TMP pulp is converted to finished newsprint. This process involves forming and drying a continuous sheet of pulp into newsprint. This sheet is then converted into rolls and wrapped for shipment.
AA-005	Woodyard Area which involves the receiving, handling and processing of logs, purchased chips and bark. These materials are used to yield high quality wood chips and fuel.
AA-009	Wastewater Treatment area where the mill process wastewater is treated and clarified.
AA-010	Facility Roads. The fugitive dust emissions created from the truck traffic including delivery of logs, wood chips, bark, chemicals, and market pulp as well as outgoing shipments of newsprint and woodwaste (fines).
AA-020	84.0 MMBtu/hr (60,000 lbs./hour of steam), natural gas fired, boiler (Reference R1) which is only operated when emission point AA-001 is down for extended maintenance.
AA-021	84.0 MMBtu/hr (60,000 lbs./hour of steam), natural gas fired, boiler (Reference R2) which is only operated when emission point AA-001 is down for extended maintenance.
AA-022	196 Hp No. 1 Fire Pump which is used as part of the mill fire protection system (Existing Emergency Compression Ignition Stationary Reciprocating Internal Combustion Engine)
AA-023	231 Hp No. 2 Fire Pump which is used as part of the mill fire protection system (Existing Emergency Compression Ignition Stationary Reciprocating Internal Combustion Engine)
AA-024	221 Hp Emergency Back-up Mill Water Pump which is used during commercial power interruptions (Existing Emergency Compression Ignition Stationary Reciprocating Internal Combustion Engine)

SECTION 3. EMISSION LIMITATIONS & STANDARDS

A. Facility-Wide Emission Limitations & Standards

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

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

(b) Emissions resulting from soot blowing operations shall be permitted provided such emissions do not exceed 60 percent opacity, and provided further that the aggregate duration of such emissions during any twenty-four (24) hour period does not exceed ten (10) minutes per billion BTU gross heating value of fuel in any one hour. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 1.3.A.)

3.A.2 Except as otherwise specified or limited herein, the permittee shall not cause, allow, or permit the discharge into the ambient air from any point source or emissions, any air contaminant of such opacity as to obscure an observer's view to a degree in excess of 40% opacity, equivalent to that provided in Paragraph 3.A.1. This shall not apply to vision obscuration caused by uncombined water droplets. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 1.3.B.)

B. Emission Point Specific Emission Limitations & Standards

Emission Point(s)	Applicable Requirement	Condition Number(s)	Pollutant/ Parameter	Limit/Standard
AA-001	New Source Performance Standards, 40 CFR Part 60, Subpart Db., 60.43b(c)(1)	3.B.1	PM/PM_{10} (filterable only)	0.10 lb/MMBtu, not to exceed 23.4 lbs/hr and 85.8 TPY
	New Source Performance Standards, 40 CFR Part 60, Subpart Db., 60.44b(d)		NO_X	0.30 lb/MMBtu, not to exceed 70.2 lbs/hr and 258.0 TPY
	New Source Performance Standards, 40 CFR Part 60, Subpart Db., 60.43b(f)		Opacity	$\leq$ 20% opacity (6-minute average) except for one 6-minute period per hour of not more than 27 % opacity
	Prevention of Significant Deterioration Construction Permit issued on March 10, 1987, and modified on August 8, 1989, January 22, 1991, and May 14, 1991 Construction Permit issued on December 23, 1997		CO	0.47 lb/MMBtu, not to exceed 110 lbs/hr and 403.8 TPY
			SO_2	0.094 lb/MMBtu, not to exceed 22.0 lbs/hr and 80.6 TPY
			VOC	0.10 lb/MMBtu, not to exceed 23.4 lbs/hr and 85.8 TPY
			Lead	0.076 lb/hr and 0.33 TPY
			Berryllium	0.00009 lb/hr and 0.00039 TPY
			Fluorides	0.417 lb/hr and 1.83 TPY
			Mercury	0.017 lb/hr and 0.07 TPY
			Cadmium	0.0067 lb/hr and 0.02935 TPY
			Chromium (VI)	0.001 lb/hr and 0.00438 TPY
			Copper	0.21 lb/hr and 0.92 TPY
			Nickel	0.040 lb/hr and 0.1752 TPY
			Arsenic	0.0028 lb/hr and 0.01226 TPY
		3.B.2	Combined Emissions	The combined emission rate of Arsenic, Beryllium, Cadmium, Hexavalent Chromium, and Nickel shall comply with the equation in Paragraph 3.B.2

Emission Point(s)	Applicable Requirement	Condition Number(s)	Pollutant/ Parameter	Limit/Standard
AA-001	Prevention of Significant Deterioration Construction Permit issued on March 10, 1987, and modified on August 8, 1989, January 22, 1991, and May 14, 1991	3.B.3 3.B.14	Operating Limitations	The 24-hour rolling average heat input shall not exceed 234 MMBtu/hr (180,000 lb/hr of steam produced)
	Construction Permit issued on December 23, 1997	3.B.4	Fuel Restrictions	See Paragraph 3.B.4
AA-002	New Source Performance Standards, 40 CFR Part 60, Subpart Db., 60.44b(a)(1)(ii)	3.B.5	NO_X	0.20 lb/MMBtu, not to exceed 35.3 lbs/hr and 154.6 TPY
	New Source Performance Standards, 40 CFR Part 60, Subpart Db., 60.43b(f)		Opacity	$\leq$ 20% opacity (6-minute average) except for one 6-minute period per hour of not more than 27 % opacity
	Prevention of Significant Deterioration Construction Permit issued on March 10, 1987, and modified on August 8, 1989, January 22, 1991, and May 14, 1991		PM/PM_{10} (filterable only)	0.005 lb/MMBtu, not to exceed 0.88 lbs/hr and 3.9 TPY
			SO_2	0.0006 lb/MMBtu, not to exceed 0.11 lbs/hr and 0.48 TPY
			CO	0.04 lb/MMBtu, not to exceed 7.1 lbs/hr and 31.1 TPY
			VOC	0.0014 lb/MMBtu, not to exceed 0.25 lbs/hr and 1.1 TPY
			Mercury	0.0023 lb/hr and 0.01 TPY
		3.B.6	Operating Restriction	The 24-hour rolling average heat input shall not exceed 176.5 MMBtu/hr (135,000 lb/hr of steam produced)
		3.B.7	Fuel Restriction	Natural gas only
AA-005	11 Miss. Admin. Code Pt. 2, R. 1.3.F	3.B.8	PM	$E=4.1(p)^{0.67}$
AA-020 AA-021	11 Miss. Admin. Code Pt. 2, R. 1.4.A(1)	3.B.9	SO_2	4.8 lb/MMBtu
	11 Miss. Admin. Code Pt. 2, R. 1.3.D(1)(b)	3.B.10	PM	$E=0.8808 * I^{-0.1667}$

Emission Point(s)	Applicable Requirement	Condition Number(s)	Pollutant/ Parameter	Limit/Standard
AA-020 AA-021	Title V Permit No. 0960-00015, issued on October 16, 1998 and Modified on July 28, 2000	3.B.7	Fuel Restriction	Natural gas only
	Title V Permit No. 0960-00015, issued on October 16, 1998 and Modified on July 28, 2000	3.B.11 3.B.13	Operational Limitation	The Boilers are restricted to operating for a period not to exceed 4,642 hours/year on a 12-month rolling average for both boilers.
		3.B.12	NO_X	$\leq$ 39 tons/year on A 12-month rolling average (total for both boilers)
	Title V Permit No. 0960-00015 issued on ISSUANCE DATE	3.B.15	Operational Limitation	The Boilers are restricted to remaining on site for a period not to exceed 180 consecutive days.
AA-001 AA-002	New Source Performance Standards 40 CFR Part 60, Subpart A, General Provisions	3.B.14	Applicability	40 CFR 60.1
AA-022 AA-023 AA-024	National Emissions Standards for Hazardous Air Pollutants for Reciprocating Internal Combustion Engines, 40 CFR Part 63, Subpart ZZZZ	3.B.16	HAP's	Maintenance Requirements
	11 Miss. Admin. Code Pt. 2, R. 1.4.A(1)	3.B.9	SO_2	4.8 lb/MMBTU
	11 Miss. Admin. Code Pt. 2, R. 1.3.D(1)(a)	3.B.17	PM	0.6 lbs/MMBTU
AA-001 & AA-002	NESHAP for Industrial, Commercial, and Institutional Boilers and Process Heaters, 40 CFR Part 63, Subpart DDDDD, 63.7485, 63.7490, 63.7495(b), 63.7499(h) and (l) 63.7500(a)(3) and 63.7500(f)	3.B.18	HAP	General Applicability
		3.B.19	General Operating Requirement	See Condition
AA-001	63.7500(a)(1) and Table 2 of Subpart DDDDD	3.B.20	Filterable PM	0.44lb/MMBtu
			CO	3,500 ppm @ 3% O2
			HCl	0.022lb/MMBtu
			Hg	0.0000057lb/MMBtu
AA-001	63.7500(a)(2) and Table 4 of Subpart DDDDD	3.B.21	Operating Limits	Pressure Drop, Operating Load, and O_2 Concentration

3.B.1 Emission Point AA-001 shall operate in accordance with the emission limits established in the Prevention of Significant Deterioration Construction Permit issued on March 10, 1987, and modified on August 8, 1989, January 22, 1991, and May 14, 1991, the Construction Permit issued on December 23, 1997, and the New Source Performance Standards for Industrial-Commercial-Institutional Steam Generating Units, 40 CFR Part 60, Subpart Db.

3.B.2 For Emission Point AA-001, the combined emissions of Arsenic, Beryllium, Cadmium, Hexavalent Chromium, and Nickel shall comply with the following equation:

$$(3.58)MAs+(2.006)MBe+(1.505)MCd+(10.031)MCr(VI)+(0.201)MNi < 0.02$$

where M(x) = pollutant mass emission rate in lbs per hour. (Ref: PSD Permit to Construct issued March 10, 1987, modified August 8, 1989, January 22, 1991, and May 14, 1991. Construction Permit issued December 23, 1997)

3.B.3 Emission Point AA-001 shall not exceed a 24-hour rolling average heat input rate of 234.0 MMBtu/hr (180,000 lb/hr of steam produced). (Ref: PSD Permit to Construct issued March 10, 1987, modified August 8, 1989, January 22, 1991, and May 14, 1991. Construction Permit issued December 23, 1997)

3.B.4 For Emission Point AA-001, the permittee shall burn only those fuels that ensure continual compliance with the stack emission limitations. Additionally, burning of sludge generated at other facilities is prohibited. (Ref: PSD Permit to Construct issued March 10, 1987, modified August 8, 1989, January 22, 1991, and May 14, 1991. Construction Permit issued December 23, 1997)

3.B.5 The permittee shall operate Emission Point AA-002 in accordance with the emission limits established in the Prevention of Significant Deterioration Construction Permit issued on March 10, 1987, and modified on August 8, 1989, January 22, 1991, and May 14, 1991, and the New Source Performance Standards for Industrial-Commercial-Institutional Steam Generating Units, 40 CFR Part 60, Subpart Db.

3.B.6 Emission Point AA-002 shall not exceed a 24-hour rolling average heat input rate of 176.5 MMBtu/hr (135,000 lb/hr of steam produced). (Ref: PSD Permit to Construct issued March 10, 1987, modified August 8, 1989, January 22, 1991, and May 14, 1991.)

3.B.7 For Emission Point AA-002, AA-020, and AA-021, the permittee shall only burn natural gas. (Ref: PSD Permit to Construct issued March 10, 1987, modified August 8, 1989, January 22, 1991, and May 14, 1991. Title V Permit No. 0960-00015, issued on October 16, 1998 and Modified on July 28, 2000)

3.B.8 For Emission Point AA-005, no person shall cause, permit, or allow the emission of particulate matter (filterable only) in total quantities in any one hour from any

manufacturing process, which includes any associated stacks, vents, outlets, or combination thereof, to exceed the amount determined by the relationship

$$E = 4.1\ p^{0.67_7}$$

where E is the emission rate in pounds per hour and p is the process weight input rate in tons per hour.

Conveyor discharge of coarse solid matter may be allowed if no nuisance is created beyond the property boundary where the discharge occurs. (Ref: 11 Miss. Admin. Code Pt. 2, R. 1.3.F)

3.B.9 The maximum discharge of sulfur oxides from any fuel burning installation in which the fuel is burned primarily to produce heat or power by indirect heat transfer shall not exceed 4.8 pounds (measured as sulfur dioxide) per million BTU heat input. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 1.4.A(1))

3.B.10 For Emission Points AA-020 and AA-021, the maximum permissible emission of ash and/or particulate matter (filterable only) from installations equal to or greater than 10 million BTU per hour heat input but less than 10,000 million BTU per hour heat input shall not exceed an emission rate as determined by the relationship

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

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

3.B.11 For Emission Points AA-020 and AA-021, the boilers are restricted to operating for a period not to exceed 4,642 hours/year on a 12-month rolling average. (Ref: Title V Permit No. 0960-00015, issued on October 16, 1998 and Modified on July 28, 2000)

3.B.12 For Emission Points AA-020 and AA-021, the permittee shall not exceed 39 tons/year of Nitrogen Oxides emissions on a 12-month rolling average. (Ref: Title V Permit No. 0960-00015, issued on October 16, 1998 and Modified on July 28, 2000)

3.B.13 The permittee shall not operate Emission Point AA-001 in conjunction with Emission Points AA-020 and AA-021. (Ref: Title V Permit No. 0960-00015, issued on October 16, 1998 and Modified on July 28, 2000)

3.B.14 The permittee shall comply with all applicable requirements of 40 CFR Part 60, Subpart A – General Provisions, Standards Of Performance For New Stationary Sources.

3.B.15 For Emission Points AA-020 and AA-021, each boiler is restricted to remaining on site for a period not to exceed 180 consecutive days. Any temporary boiler that replaces a

temporary boiler and performs the same or similar function will be included in calculating the consecutive time period. (Ref: Title V Permit No. 0960-00015, issued on ISSUANCE DATE)

3.B.16 Emission Points AA-022, AA-023, and AA-024 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 Points AA-022, AA-023, and AA-024 are existing emergency compression ignition (CI) stationary RICE's with site rating's less than 500 brake HP and 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.

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. (Ref.: 40 CFR 63.6602 and Table 2c of Subpart ZZZZ)

3.B.17 For Emission Points Emission Points AA-022, AA-023, and AA-024, the maximum permissible emission of ash and/or particulate matter (filterable only) from fossil fuel burning installations of less than 10 million BTU per hour heat input shall not exceed 0.6 pounds per million BTU per hour heat input. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 1.3.D(1)(a).)

3.B.18 Beginning January 31, 2016, Emission Points AA-001 and AA-002 are subject to and shall comply with the National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters, 40 CFR Part 63, Subpart DDDDD.

Emission Point AA-001 is considered an existing large boiler that is in the "hybrid suspension/grate burner designed to burn wet biomass/bio-based solid" fuel subcategory as listed in 40 CFR 63.7499(h) and as defined in 63.7575.

Emission Point AA-002 is considered an existing large boiler that is in the "units designed to burn gas 1 fuels" fuel subcategory as listed in 40 CFR 63.7499(l) and as defined in 63.7575. (Ref.: 40 CFR 63.7485, 63.7490, 63.7495(b), 63.7499(h) and (l))

3.B.19 Beginning January 31, 2016, the permittee shall operate and maintain Emission Points AA-001 and AA-002, including any associated pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions.

For Emission Point AA-001, the emission limits, work practice standards, and operating limits apply at all times the emission points are in operation, except during startup and shutdown during which time the permittee shall comply with Condition 3.D.3 of this permit.

(Ref.: 40 CFR 63.7500(a)(3), 63.7500(f), and 63.7505(a))

3.B.20 Beginning January 31, 2016, emissions from Emission Point AA-001 shall not exceed:

(a) Filterable PM - 0.44 lb/MMBtu of heat input

(b) 3500ppm @ 3% O_2

(c) HCl - 0.022 lb/MMBtu of heat input

(d) Mercury – 0.0000057 lb/MMBtu of heat input

(Ref.: 40 CFR 63.7500(a)(1) and Table 2 of Subpart DDDDD))

3.B.21 Beginning January 31, 2016, Emission Point AA-001 shall meet the following operating limits from Table 4 of Subpart DDDDD.

(a) Maintain the 30-day rolling average pressure drop and the 30-day rolling average liquid flow rate at or above the lowest one-hour average pressure drop and the lowest one-hour average liquid flow rate, respectively, measured during the most recent performance test demonstrating compliance with the PM emission limitation according to 40 CFR 63.7530(b) and Table 7 of Subpart DDDDD.

(b) Maintain the 30-day rolling average operating load such that it does not exceed 110 percent of the highest hourly average operating load recorded during the most recent performance test.

(c) Maintain the 30-day rolling average oxygen content at or above the lowest hourly average oxygen concentration measured during the most recent CO performance test, as specified in Table 8 of Subpart DDDDD

(Ref.: 40 CFR 63.7500(a)(2) and Items 1,8, and 9 of Table 4)

C. Insignificant and Trivial Activity Emission Limitations & Standards

Applicable Requirement	Condition Number(s)	Pollutant/ Parameter	Limit/Standard
11 Miss. Admin. Code Pt. 2, R. 1.3.D(1)(a).	3.C.1	PM	0.6 lbs/MMBTU
11 Miss. Admin. Code Pt. 2, R. 1.4.A(1).	3.C.2	SO_2	4.8 lbs/MMBTU
11 Miss. Admin. Code Pt. 2, R. 1.3.F	3.C.3	PM	$E = 4.1p^{0.67}$

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

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

3.C.3 Except as otherwise specified, no person shall cause, permit, or allow the emission of particulate matter (filterable only) in total quantities in any one hour from any manufacturing process, which includes any associated stacks, vents, outlets, or combination thereof, to exceed the amount determined by the relationship

$$E = 4.1\ p^{0.67_7}$$

where E is the emission rate in pounds per hour and p is the process weight input rate in tons per hour.

Conveyor discharge of coarse solid matter may be allowed if no nuisance is created beyond the property boundary where the discharge occurs. (Ref: 11 Miss. Admin. Code Pt. 2, R. 1.3.F)

D. Work Practice Standards

Emission Point(s)	Applicable Requirement	Condition Number(s)	Pollutant/ Parameter	Limit/Standard
AA-001 & AA-002	40 CFR 63, Subpart DDDDD, 63.7510(e), 63.7515(d), and 63.7540(a)(10)(i)-(vi)	3.D.1	HAP	Initial and subsequent tune-ups
	40 CFR 63, Subpart DDDDD, 63.7510(e), 63.7575 and Item 4 of Table 3	3.D.2	HAP	Energy Assessment
AA-001	40 CFR 63, Subpart DDDDD, 63.7500(f) and Table 3 of Subpart DDDDD	3.D.3	HAP	Startup/Shutdown Requirements

3.D.1 For Emission Points AA-001 and AA-002 the permittee shall complete an initial tune-up in accordance with (a) through (f) below by January 31, 2016. The subsequent required tune-ups identified below shall also be in accordance with (a) through (f) below.

Beginning January 31, 2016, the subsequent tune-ups for Emission Point AA-001 and Emission Point AA-002 shall be conducted annually, with each tune-up being completed no more than 13 months after the previous tune-up. If the unit is not operating on the required date of the tune-up, the tune-up must be conducted within 30 calendar days of startup. The permittee may delay the burner inspections until the next scheduled or unscheduled unit shut down.

(a) As applicable, inspect the burner, and clean or replace any components of the burner necessary (you may delay the burner inspection until the next scheduled unit shutdown);

(b) Inspect the flame pattern, as applicable, and adjust the burner as necessary to optimize the flame pattern. The adjustment should be consistent with the manufacturer's specifications, if available;

(c) Inspect the system controlling the air-to-fuel ratio, as applicable, and insure that it is correctly calibrated and functioning properly (you may delay the inspection until the next scheduled unit shutdown);

(d) Optimize total emissions of CO. This optimization should be consistent with the manufacturer's specifications, if available, and with any nitrogen oxide requirement to which the unit is subject;

(e) Measure the concentrations in the effluent stream of CO in parts per million, by volume, and oxygen in volume percent, before and after the adjustments are made (measurements may be either on a dry or wet basis, as long as it is the same basis before and after the adjustments are made). Measurements may be taken using a portable CO analyzer; and,

(f) Maintain on-site and submit, if requested by MDEQ, a report containing the following information listed in (1) through (3) of this section:

(1) The concentrations of CO in the effluent stream in parts per million, by volume, and oxygen in volume percent, measured at high fire or typical operating load, before and after the tune-up of the boiler.

(2) A description of any corrective actions taken as a part of the tune-up of the boiler.

(3) The type and amount of fuel used over the 12 months prior to the tune-up of the boiler, but only if the unit was physically and legally capable of using more than one type of fuel during that period. Units sharing a fuel meter may estimate the fuel use by each unit.

(Ref.: 40 CFR 63.7510(e), 63.7515(d), 63.7540(a)(10)(i) through (vi)), 63.7540(a)(13) and Table 3 of Subpart DDDDD)

3.D.2 For Emission Points AA-001 and A-002, the permittee must have a qualified energy assessor complete a one-time energy assessment as defined in 63.7575 by January 31, 2016. An energy assessment that has been completed after January 1, 2008, that meets or is amended to meet the energy assessment requirements listed in (a) through (h) below satisfies the energy assessment requirement. If the permitee operates under an energy management program developed according to the Energy Star guidelines for energy management or compatible with ISO 50001 for at least one year between January 1, 2008 and January 31, 2016 the permittee satisfies the one time energy assessment requirement. The energy assessment must include all data elements listed in (a) through (h) below with the extent of the evaluation for items (a) through (e) being appropriate for the on-site technical hours specified for an energy assessment in 63.7575.

(a) A visual inspection of the boiler system;

(b) An evaluation of operating characteristics of the boiler system, specifications of energy using systems, operating and maintenance procedures, and unusual operating constraints;

(c) An inventory of major energy use systems consuming energy from affected boilers and which are under the control of the boiler owner/operator;

(d) A review of available architectural and engineering plans, facility operation and maintenance procedures and logs, and fuel usage;

(e) A review of the facility's energy management practices and provide recommendations for improvements consistent with the definition of energy management practices, if identified;

(f) A list of cost-effective energy conservation measures that are within the facility's control;

(g) A list of the energy savings potential of the energy conservation measures identified; and

(h) A comprehensive report detailing the ways to improve efficiency, the cost of specific improvements, benefits, and the time frame for recouping those investments.

(Ref.: 40 CFR 63.7510(e), 63.7575 and Item 4 of Table 3 in Subpart DDDDD)

3.D.3 Beginning January 31, 2016, for Emission Points AA-001, the permittee shall operate the boiler in accordance with the requirements found in (a) through (e) of this section during periods of startup and shutdown.

(a) All CMS must be operated during startup and shutdown.

(b) Natural gas must be used for startup of Emission Point AA-001.

(c) Emissions must be vented to the main stacks and all control devices must be engaged if the permittee starts burning biomass during startup or shutdown

(d) Monitoring data must be collected during periods of startup and shut down as specified in Condition 5.B.18.

(e) All records required by Items (h) and (i) of Condition 5.B.23 must be kept during periods of startup and shutdown.

(Ref.: 40 CFR 63.7500(f), 63.7540(d), 63.7555(i) and (j) and Items 5 and 6 of Table 3 of Subpart DDDDD)

SECTION 4. COMPLIANCE SCHEDULE

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

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

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

(b) the compliance status;

(c) whether compliance was continuous or intermittent;

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

(e) such other facts as may be specified as pertinent in specific conditions elsewhere in this permit. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.C(5)(a), (c), & (d).)

4.3 Emission Points AA-001 and AA-002 are subject to and must comply with all applicable requirements of the National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters, 40 CFR Part 63, Subpart DDDDD, by January 31, 2016.

SECTION 5. MONITORING, RECORDKEEPING & REPORTING REQUIREMENTS

A. General Monitoring, Recordkeeping and Reporting Requirements

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

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

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

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

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

(d) the analytical techniques or methods used;

(e) the results of such analyses; and

(f) the operating conditions existing at the time of sampling or measurement. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)(b)(1).)

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

5.A.4 Except as otherwise specified herein, the permittee shall submit reports of any required monitoring by July 31 and January 31 for the preceding six-month period. All instances of deviations from permit requirements must be clearly identified in such reports and all required reports must be certified by a responsible official consistent with 11 Miss. Admin. Code Pt. 2, R. 6.2.E. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)(c)(1).)

5.A.5 Except as otherwise specified herein, the permittee shall report all deviations from permit requirements, including those attributable to upsets, the probable cause of such deviations, and any corrective actions or preventive measures taken. Said report shall be made within five (5) days of the time the deviation began. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)(c)(2).)

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

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

B. Specific Monitoring, Recordkeeping, and Reporting Requirements

5.B.1 When firing TMP sludge in Emission Point AA-001, the permittee shall collect a quarterly composite sample of the sludge consisting of at least thirteen (13) equal aliquots, with at least one (1) aliquot collected each week. The permittee shall analyze each composite sample of sludge fired to the boiler for lead, beryllium, mercury, cadmium, chromium (VI), copper, nickel, and arsenic. A summary of the TMP sludge analysis results shall be submitted on a quarterly basis. (Ref.: Prevention of Significant Deterioration Construction Permit issued on March 10, 1987, and modified on August 8, 1989, January 22, 1991, and May 14, 1991)

5.B.2 For Emission Point AA-001, the permittee shall install, operate, and maintain a continuous emission monitoring system (CEMS) for monitoring nitrogen oxides. This system shall meet the specifications outlined in 40 CFR Part 60, Appendix B and shall comply with the provisions of 40 CFR Part 60, 60.13, 60.48b, and 60.48b(f).

The permittee shall not be required to continuously monitor opacity pursuant to 40 CFR Part 60.13(i)(1).

Additionally, the permittee shall install, calibrate, operate, and maintain monitoring systems that continuously measure and record the pressure differential across the venturi scrubber, the scrubbing liquid flow rate, the scrubbing liquid pressure, and pH to the scrubber. The pressure monitoring devices must be certified by the manufacturer to be accurate within $\pm$1 inch of water column gauge pressure. The liquid flow rate monitoring device must be certified by the manufacturer to be accurate within $\pm$5 percent of design scrubbing liquid flow rate. The pH monitoring device(s) must be certified by the manufacturer to be accurate within $\pm$0.1 pH. All these devices shall be recalibrated semiannually in accordance with the manufacturer's instructions. (Ref.: 40 CFR 60.13 and 60.48b)

5.B.3 For Emission Point AA-001, the permittee shall demonstrate compliance with the emission limitations for the following pollutants by stack testing in accordance with the specified methods by October 31, 2015, and submittal of the test report no later than sixty (60) days after the testing is complete, and biennially (once every two years) thereafter. The testing and submittal of the report shall comply with the provisions of 40 CFR Part 60, Sections 60.8(a), 60.8(b), 60.8(c), 60.8(d), and 60.8(f); 60.11(b), 60.11(e)(1), 60.11(e)(2), and 60.11(e)(3); and 60.46b.

The test report shall include documentation of operating conditions during the testing for process equipment and control devices. This includes, but is not limited to, TMP sludge analyses, fuel flow/firing rates, steam production rates, pressure drop across control devices and scrubber water flow rate, pressure, and pH.

Pollutant	Test Method
PM	EPA Reference Methods 5B and 19
PM10	As proposed by the company and approved by the Office of Pollution Control.
SO2	EPA Reference Methods 8 and 19
NOx	Continuous Emission Monitoring Systems as required in 40 CFR Part 60, Section 60.46b.
CO	EPA Reference Methods 10 and 19
VOC's	EPA Reference Methods 25 and 19
Opacity	EPA Reference Method 9
Fluorides	EPA Reference Method 13A or 13B
Lead Beryllium Mercury Cadmium Chromium (IV) Copper Nickel Arsenic	As proposed by the company and approved by the Office of Pollution Control.

All test methods shall be those versions or approved equivalent that are in effect at the time the stack tests are conducted.

The permittee shall submit a written test protocol at least thirty (30) days prior to the intended test date(s) to ensure that all test methods and procedures are acceptable to the DEQ. Also, the DEQ shall be notified in writing at least ten (10) days prior to the scheduled test date(s) so that an observer may be afforded the opportunity to witness the test(s).

After successful submittal of a written test protocol in conjunction with any compliance test(s), the permittee may request that the resubmittal of a testing protocol be waived for subsequent testing by certifying in writing at least thirty (30) days prior to subsequent testing that all conditions for testing remain unchanged such that the previous protocol can and will be followed. (Ref.: Prevention of Significant Deterioration Construction Permit issued on March 10, 1987, and modified on August 8, 1989, January 22, 1991, and May 14, 1991)

5.B.4 For Emission Point AA-002, the permittee shall install, maintain, and operate a CEMS for monitoring nitrogen oxides. This system shall meet the specifications of 40 CFR

Part 60, Appendix B and shall comply with the provisions of 40 CFR Part 60, 60.13, 60.48b, and 60.48b(f). (Ref.: 40 CFR 60.13 and 60.48b)

5.B.5 For Emission Points AA-001 and AA-002, the permittee shall conduct performance evaluations of the CEMS in accordance with the specifications of 40 CFR Part 60, Appendix B. The testing and submittal of the written reports of the results shall comply with the provisions of 40 CFR Part 60, 60.13(c) and 60.13(c)(2), respectively.

Also, the permittee shall submit excess emission reports for any calendar quarter during which there are excess emissions in accordance with 40 CFR Part 60, 60.49b(h)(1). (Ref.: 40 CFR 60.13 and 60.49)

5.B.6 For Emission Point AA-002, the permittee shall demonstrate compliance with the emission limitations for nitrogen oxides using the results from the continuous emission monitoring system and performance evaluation testing that is to be conducted in accordance with 40 CFR Part 60, 60.8(b), 60.8(c), 60.8(d), and 60.8(f), and 60.46b. (Ref.: 40 CFR 60.46b)

5.B.7 For Emission Points AA-001 and AA-002, the permittee shall monitor and maintain daily records on the type and feed rate of all fuel(s) combusted. In addition to the fuel records, the permittee shall also monitor and maintain records of the steam production rates for each boiler. The permittee shall maintain these records daily on a rolling 365-day basis. A summary of this information shall be submitted in accordance with Paragraph 5.A.4.

Also, the permittee shall obtain a gas analysis from the vendor which identifies the makeup of the natural gas being fired in each unit. A copy of the gas analysis shall be submitted to the DEQ and one shall be kept on file at the facility throughout the life of this permit. (Ref.: Title V Permit No. 0960-00015 issued on October 16, 1998)

5.B.8 For Emission Points AA-020 and AA-021, The permittee shall record and maintain records of the amounts of each fuel combusted during each day for each boiler. A summary of this information shall be submitted in accordance with Paragraph 5.A.4. (Ref.: Title V Permit No. 0960-00015, and issued on Issuance Date)

5.B.9 For Emission Points AA-020 and AA-021, the permittee shall record the dates the emissions units are brought on site, placed in operation, removed from operable service, and removed from the site. Within seven (7) calendar days, the permittee shall submit written notification of the dates of placement of on site, in operation, removal from operation, and removal from the facility. (Ref.: Title V Permit No. 0960-00015, issued on October 16, 1998, Modified on July 28, 2000, and issued on ISSUANCE DATE)

5.B.10 For Emission Points AA-020 and AA-021, the permittee shall record the total hours operated on a daily basis for each boiler. (Ref.: Title V Permit No. 0960-00015, issued on October 16, 1998, and Modified on July 28, 2000)

5.B.11 For Emission Points AA-020 and AA-021, the permittee shall record and maintain in log form the total hours operated on a daily basis for each boiler. These records shall be submitted within 30 days of startup and monthly thereafter. The records must be made available for review upon request by DEQ personnel. The reporting of these records may be suspended upon satisfaction that both boilers have been removed from the facility. (Ref.: Title V Permit No. 0960-00015, issued on October 16, 1998, and Modified on July 28, 2000)

5.B.12 Emission Point AA-001 is subject to 40 CFR, Part 64, Compliance Assurance Monitoring (CAM). As allowed by CAM, monitoring as required in the permit for compliance with the Boiler MACT (40 CFR Part 63, Subpart DDDDD) is deemed to satisfy CAM requirements. (Ref.: 40 CFR Part 64)

5.B.13 For Emission Points AA-022, AA-023, and AA-024, the permittee shall comply with the following monitoring, operating, maintenance requirements:

a. Operate and maintain the stationary RICE and after-treatment control device (if any) according to the manufacturer's emission-related written instructions or develop your own maintenance plan which must provide 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 may utilize an oil analysis program in order to extend the specified oil change requirements from Condition 3.B.16(a)(1) provided the analysis analyzes the parameters identified in 63.6625(i). (Ref.: 40 CFR 63.6605, 40 CFR 63.6625(e),(h), and (i) and 63.6640)

5.B.14 For Emission Points AA-022, AA-023, and AA-024, the permittee shall maintain all maintenance records that demonstrate the engine was operated and maintained in accordance with the maintenance plan identified in 5.B.13(a) and keep each readily accessible for at least five years after the date of each occurrence. (Ref.: 40 CFR 63.6655(e) and 40 CFR 63.6660)

5.B.15 For Emission Point AA-001, the permittee shall demonstrate initial compliance with the emission limitations in Condition 3.B.20 by stack testing, establishing operating limits and conducting CMS evaluations. Stack testing must be performed in accordance with the requirements in 40 CFR 63.7520 and Table 5 of Subpart DDDDD by July 29, 2016, and submittal of the test report no later than sixty days after the testing is complete. Subsequent tests will be conducted annually but no later than 13 months after the previous performance test. The operating limits must be established during performance test(s). The CMS performance evaluations must be conducted according to Conditions 5.B.18 and 5.B.19.

The permittee must develop a site-specific test plan according to the requirements in 40 CFR 63.7(c) and upon request make available to MDEQ any records necessary to determine the conditions of the performance tests.

The permittee must submit a Notification of Intent to conduct a performance test at least 60 days before the performance test is scheduled to begin.

If the permittee meets the requirements set forth in 40 CFR 63.7515(b), then subsequent performance tests may be performed according to the frequency outlined in 40 CFR 63.7515(b). (Ref.: 40 CFR 63.7510(a)(1),(3), and (4), 63.7515(a) and (b), 63.7520(a),(b),(c),(d),and(e),63.7530(a)and(b), 63.7545(d), and Table 5 of Subpart DDDDD)

5.B.16 For Emission Point AA-001, the permittee must develop a site specific monitoring plan according to the requirements listed in 40 CFR 63.7505(d)(1) through (4). (Ref.: 40 CFR 63.7505(d))

5.B.17 For Emission Point AA-001, the permittee shall install, operate and maintain an oxygen analyzer system as defined below.

"*Oxygen analyzer system* means all equipment required to determine the oxygen content of a gas stream and used to monitor oxygen in the boiler or process heater flue gas, boiler or process heater, firebox, or other appropriate location. This definition includes oxygen trim systems. The source owner or operator must install, calibrate, maintain, and operate the oxygen analyzer system in accordance with the manufacturer's recommendations." (Ref.: 40 CFR §63.7525(a) and 63.7575)

5.B.18 Beginning January 31, 2016, for Emission Point AA-001, the permittee must install, operate and maintain each CMS according to the procedures in (a) through (e) of this condition.

(a) The CPMS must complete a minimum of one cycle of operation every 15-minutes. You must have a minimum of four successive cycles of operation, one representing each of the four 15-minute periods in an hour, to have a valid hour of data.

(b) The permittee must operate the monitoring system as specified in (1) of this section and comply with the data calculation requirements specified in (2) of this section.

1. The permittee must operate the monitoring system and collect data at all required intervals at all times that each boiler is operating and compliance is required, except for periods of monitoring system malfunctions or out of control periods, and required monitoring system quality assurance or control activities.

2. The permittee may not use data recorded during monitoring system malfunctions or out-of-control periods, repairs associated with monitoring system malfunctions or out-of-control periods, or required monitoring system quality assurance or control activities in data averages and calculations used to report emissions or operating levels. The permittee must record and make available upon request results of CMS performance audits and dates and duration of periods when the CMS is out of control to completion of the corrective actions necessary to return the CMS to operation consistent with your site-specific monitoring plan. The permittee must use all the data collected during all other periods in assessing compliance and the operation of the control device and associated control system.

(c) Any 15-minute period for which the monitoring system is out-of-control and data are not available for a required calculation constitutes a deviation from the monitoring requirements. Other situations that constitute a monitoring deviation are specified in 40 CFR 63.7535(d).

(d) The 30-day rolling average must be determined for all recorded readings except for those listed in (b)(2) of this Condition.

(e) The results of each inspection, calibration, and validation check must be recorded.

(Ref.: 40 CFR 63.7525(d)(1)-(5) and 63.7535)

5.B.19 For Emission Point AA-001, the permittee must meet the following monitoring requirements for the pressure monitoring system ((d) through (i)), flow monitoring system ((a) through (c) and (i)):

(a) Install the flow sensor and other necessary equipment in a position that provides a representative flow.

(b) Use a flow sensor with a measurement sensitivity of no greater than 2 percent of the design flow rate.

(c) Minimize, consistent with good engineering practices, the effects of swirling flow or abnormal velocity distributions due to upstream and downstream disturbances.

(d) Install the pressure sensor(s) in a position that provides a representative measurement of the pressure.

(e) Minimize or eliminate pulsating pressure, vibration, and internal and external corrosion consistent with good engineering practices.

(f) Use a pressure sensor with a minimum tolerance of 1.27 centimeters of water or a minimum tolerance of 1 percent of the pressure monitoring system operating range, whichever is less.

(g) Perform checks at least once each process operating day to ensure pressure measurements are not obstructed.

(h) If at any time the measured pressure exceeds the manufacturer's specified maximum operating pressure range, conduct a performance evaluation of the pressure monitoring system in accordance with the monitoring plan and confirm that the pressure monitoring system continues to meet the performance requirements detailed in the monitoring plan. Alternatively, install and verify the operation of a new pressure sensor.

(i) Conduct a performance evaluation of the flow and pressure monitoring systems at the time of the performance test but no less frequently than annually.

(Ref.: 40 CFR 63.7525 (e)(1)-(4),(f)(1)-(6))

5.B.20 For Emission Point AA-001, the permittee shall demonstrate continuous compliance with the emission limits in Condition 3.B.20, the work practice standards in Condition 3.D.1, and the operating limits in Condition 3.B.21 according to the methods listed in (a) through (e). Emission Point AA-002 shall demonstrate continuous compliance with the work practice standards in Condition 3.D.1 by complying with (h).

(a) Collect the pressure drop and liquid flow rate monitoring system data according to Conditions 5.B.18 and 5.B.19. Reduce this data to a 30-day rolling average and maintain the 30-day rolling average pressure drop and liquid flow-rate at or above the operating limits in Condition 3.B.21 as established in Condition 5.B.15.

(b) Continuously monitor the oxygen content using an oxygen analyzer system according to Condition 5.B.17 and maintain the 30-day rolling average oxygen content according to the operating limits in Condition 3.B.21 as established in Condition 5.B.15.

(c) Collect the operating load data every 15 minutes and reduce this data to a 30-day rolling average.

(d) Maintain the 30-day rolling average operating load such that it does not exceed 110 percent of the highest hourly average operating load recorded during the most recent performance test according to Condition 5.B.15.

(e) After the initial compliance demonstration is completed, operation above the established maximum or below the established minimum operating limit is a deviation of established operation limits listed in Condition 3.B.21 except during performance tests conducted to determine compliance with the emission limits or to establish new operating limits. Operating limits must be confirmed and reestablished during performance tests.

(f) As specified in Condition 5.B.23, you must keep records of the type and amounts of all fuels burned in the boiler during the reporting period.

(g) Conduct a tune-up in accordance with Condition 3.D.1.

(h) Report each instance in which the boiler did not meet the emission limits and operating limits in Conditions 3.B.20 and 3.B.21. These instances are considered deviation and as such must be reported according to the requirements of Condition 5.A.5.

(Ref.: 40 CFR 63. 7540(a)(1),(2)(ii), and(10) and (b), Items 4,9, and 10 of Table 8 of Subpart DDDDD

5.B.21 Beginning January 31, 2016, for Emission Points AA-001 and AA-002 , the permittee shall submit an Notification of Compliance Status to DEQ, by the end of the 60th day following the completion of all performance tests required by Condition 5.B.15 and the work practice standards required by Conditions 3.D.1 and 3.D.2. The Notification of Compliance Status report must include the following (a) through (f) for each unit as applicable:

(a) A description of the affected units including identification of which subcategory each unit is in, the design heat input capacity of each unit, a description of the add-on controls used on each unit to comply with Subpart DDDDD, and a description of the fuel(s) burned.
(b) Summary of the results of the performance tests, and the calculations conducted to demonstrate initial compliance including established operating limits
(c) A summary of the maximum CO emission levels recorded during the performance test to show that you met the applicable emission limit in Table 3.B
(d) A signed certification that you have met all applicable emission limits and work practice standards
(e) If the permittee had a deviation from any emission limit, work practice standard, or operating limit, the permittee must also submit a description of the deviation, the duration of the deviation, and the corrective action that was taken because of the deviation.
(f) The following certifications of compliance signed by a responsible official
    (1) "This facility complies with the required initial tune-up according to the procedures listed in Condition 3.D.1.
    (2) "This facility has had an energy assessment performed according to the procedures listed in Condition 3.D.2."
    (3) "No secondary materials that are solid waste were combusted in any affected unit."

(Ref.: 40 CFR 63.7530 (e) and 63.7545(e))

5.B.22 Beginning January 31, 2016, for Emission Points AA-001 and AA-002, the permittee shall submit the applicable information identified in 40 CFR 63.7550 (a) through (e) in

accordance with the annual compliance report required by Condition 4.2 of this permit.

Results of any performance tests, fuel analyses, and compliance reports identified in 40 CFR 63.7550(h)(1) though (3) shall be submitted to EPA's WebFIRE database using the Compliance and Emissions Data Reporting Interface (CEDRI) that can be accessed through EPA's Central Data Exchange (CDX – www.epa.gov/cdx). Submittal to CEDRI will only be for those reports that are readily available in CEDRI at the time the report is due.
(Ref.: 40 CFR 63.7550(a),(b),(c),(e), and (h) and Table 9 of Subpart DDDDD)

5.B.23 Beginning January 31, 2016, for Emission Points AA-001 and AA-002, the permittee must keep all applicable records that are required in (a) through (l) below:

(a) A copy of each notification and report that you submitted to comply with this subpart, including all documentation supporting any Initial Notification or Notification of Compliance Status or semiannual compliance report that you submitted, according to the requirements in §63.10(b)(2)(xiv).

(b) Records of performance tests, fuel analyses, or other compliance demonstrations and performance evaluations as required in §63.10(b)(2)(viii).

(c) For each CEMS, COMS, and continuous monitoring system you must keep records according to paragraphs (1) through (3) of this section.

1. Records described in §63.10(b)(2)(vii) through (xi)
2. Previous (*i.e.*, superseded) versions of the performance evaluation plan as required in §63.8(d)(3)
3. Records of the date and time that each deviation started and stopped.

(d) Must keep the records required in Condition 5.B.20 including records of all monitoring data and calculated averages for applicable operating limits, such as pressure drop, pH, and operating load, to show continuous compliance with each emission limit and operating limit that applies to you.

(e) Keep records of monthly fuel use by each boiler, including the type(s) of fuel and amount(s) used.

(f) Records of the occurrence and duration of each malfunction of the boiler, or of the associated air pollution control and monitoring equipment.

(g) Records of actions taken during periods of malfunction to minimize emissions in accordance with the general duty to minimize emissions in §63.7500(a)(3), including corrective actions to restore the malfunctioning boiler, air pollution control, or monitoring equipment to its normal or usual manner of operation.

(h) Maintain records of the calendar date, time, occurrence and duration of each startup and shutdown.

(i) Maintain records of the type(s) and amount(s) of fuels used during each startup and shutdown.

(j) Retain the required records in this Condition for 5 years following the date of each occurrence, measurement, maintenance, corrective action, report or record. The permittee is required to keep the records on site for a period of 2 years after the event and then they may be kept offsite for the remaining three years.
(Ref.: 40 CFR 63.7555 and 63.7560)

SECTION 6. ALTERNATIVE OPERATING SCENARIOS

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.

APPENDIX A

List of Abbreviations Used In this Permit

11 Miss. Admin. Code Pt. 2, Ch. 1.	Air Emission Regulations for the Prevention, Abatement, and Control of Air Contaminants
11 Miss. Admin. Code Pt. 2, Ch. 2.	Permit Regulations for the Construction and/or Operation of Air Emissions Equipment
11 Miss. Admin. Code Pt. 2, Ch. 3.	Regulations for the Prevention of Air Pollution Emergency Episodes
11 Miss. Admin. Code Pt. 2, Ch. 4.	Ambient Air Quality Standards
11 Miss. Admin. Code Pt. 2, Ch. 5.	Regulations for the Prevention of Significant Deterioration of Air Quality
11 Miss. Admin. Code Pt. 2, Ch. 6.	Air Emissions Operating Permit Regulations for the Purposes of Title V of the Federal Clean Air Act
11 Miss. Admin. Code Pt. 2, Ch. 7.	Acid Rain Program Permit Regulations for Purposes of Title IV of the Federal Clean Air Act
BACT	Best Available Control Technology
CEM	Continuous Emission Monitor
CEMS	Continuous Emission Monitoring System
CFR	Code of Federal Regulations
CO	Carbon Monoxide
COM	Continuous Opacity Monitor
COMS	Continuous Opacity Monitoring System
DEQ	Mississippi Department of Environmental Quality
EPA	United States Environmental Protection Agency
gr/dscf	Grains Per Dry Standard Cubic Foot
HP	Horsepower
HAP	Hazardous Air Pollutant
lbs/hr	Pounds per Hour
M or K	Thousand
MACT	Maximum Achievable Control Technology
MM	Million
MMBTUH	Million British Thermal Units per Hour
NA	Not Applicable
NAAQS	National Ambient Air Quality Standards
NESHAP	National Emissions Standards For Hazardous Air Pollutants, 40 CFR 61 or National Emission Standards For Hazardous Air Pollutants for Source Categories, 40 CFR 63
NMVOC	Non-Methane Volatile Organic Compounds
NO_x	Nitrogen Oxides
NSPS	New Source Performance Standards, 40 CFR 60
O&M	Operation and Maintenance
PM	Particulate Matter
PM_{10}	Particulate Matter less than 10 μm in diameter
ppm	Parts per Million
PSD	Prevention of Significant Deterioration, 40 CFR 52
SIP	State Implementation Plan
SO_2	Sulfur Dioxide
TPY	Tons per Year
TRS	Total Reduced Sulfur
VEE	Visible Emissions Evaluation
VHAP	Volatile Hazardous Air Pollutant
VOC	Volatile Organic Compound