

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

TO OPERATE AIR EMISSIONS EQUIPMENT

THIS CERTIFIES THAT

**World Energy Natchez LLC
151 L E Barry Road
Natchez, Mississippi
Adams 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: October 8, 2013

Modified: June 4, 2015, DEC 12 2016 (ownership change)

Effective Date: As specified herein.

MISSISSIPPI ENVIRONMENTAL QUALITY PERMIT BOARD



AUTHORIZED SIGNATURE

MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY

Expires: September 30, 2018

Permit No.: 0040-00005

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APPENDIX A LIST OF ABBREVIATIONS USED IN THIS PERMIT

OTHER RELATED DOCUMENTS:

NSPS SUBPART VVa – New Source Performance Standards for Equipment Leaks of VOC in the Synthetic Organic Chemicals Manufacturing Industry

MACT SUBPART FFFF - National Emission Standards for Hazardous Air Pollutants: Miscellaneous Organic Chemical Manufacturing

MACT SUBPART DDDDD – National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters

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 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).)
- 1.5 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 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).)
- 1.7 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 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.)
- 1.8 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.: 11 Miss. Admin. Code Pt. 2, R. 6.3.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.: 11 Miss. Admin. Code Pt. 2, R. 6.2.E.)
- 1.10 The permittee shall allow the DEQ, or an authorized representative, upon the presentation of credentials and other documents as may be required by law, to perform the following:

- (a) enter upon the permittee's premises where a Title V source is located or emissions-related activity is conducted, or where records must be kept under the conditions of this permit;
 - (b) have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
 - (c) inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit; and
 - (d) as authorized by the Federal Act, sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with the permit or applicable requirements. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.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.: 11 Miss. Admin. Code Pt. 2, R. 1.3.I(1).)
- 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.: 11 Miss. Admin. Code Pt. 2, R. 1.3.I(2).)
- 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.: 11 Miss. Admin. Code Pt. 2, R. 6.3.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.: 11 Miss. Admin. Code Pt. 2, R. 6.3.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.: 11 Miss. Admin. Code Pt. 2, R. 6.3.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.: 11 Miss. Admin. Code Pt. 2, R. 6.4.C(2)., R. 6.4.B., and R. 6.2.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.: 11 Miss. Admin. Code Pt. 2, R. 6.4.F(1).)
- 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 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.)
- 1.19 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."

- 1.20 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).)
- 1.21 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.: 11 Miss. Admin. Code Pt. 2, R. 6.3.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 ordinance. 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.)
- 1.23 Except as otherwise specified herein, the permittee shall be subject to the following provision with respect to emergencies.
- (a) Except as otherwise specified herein, an "emergency" means any situation arising from sudden and reasonably unforeseeable events beyond the control of the source, including acts of God, which situation requires immediate corrective action to restore normal operation, and that causes the source to exceed a technology-based emission limitation under the permit, due to unavoidable increases in emissions attributable to the emergency. An emergency shall not include noncompliance to the extent caused by improperly designed equipment, lack of preventative maintenance, careless or improper operation, or operator error.
 - (b) An emergency constitutes an affirmative defense to an action brought for noncompliance with such technology-based emission limitations if the conditions specified in (c) following are met.
 - (c) The affirmative defense of emergency shall be demonstrated through properly signed contemporaneous operating logs, or other relevant evidence that include information as follows:
 - (1) an emergency occurred and that the permittee can identify the cause(s) of the emergency;

- (2) the permitted facility was at the time being properly operated;
 - (3) during the period of the emergency the permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards, or other requirements in the permit; and
 - (4) the permittee submitted notice of the emergency to the DEQ within 2 working days of the time when emission limitations were exceeded due to the emergency. This notice must contain a description of the emergency, any steps taken to mitigate emissions, and corrective actions taken.
- (d) In any enforcement proceeding, the permittee seeking to establish the occurrence of an emergency has the burden of proof.
- (e) This provision is in addition to any emergency or upset provision contained in any applicable requirement specified elsewhere herein. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.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 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.)

- 1.25 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 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

SECTION 2. EMISSION POINTS & POLLUTION CONTROL DEVICES

Emission Point	Description
AA-001	Biodiesel Production - 72,000,000 gal/yr biodiesel production capacity
AA-002	Equipment Leak Fugitives in the Biodiesel/Glycerol Production Units subject to NSPS VVa
AA-003	Wastewater Fugitives
AA-004	Railcar and Truck Loading
Fuel Burning Sources	
AB-001	59.64 MMBTU/hr Natural Gas-fired Boiler, Ref. B-931
AB-002	76.68 MMBTU/hr Natural Gas-fired Boiler, Ref. B-932
Tanks and Process Vessels <i>(all tanks/vessels are fixed roof unless otherwise specified)</i>	
AC-114	37,700-gallon Biodiesel/Water Decanter Process Vessel, Ref. T-114
AC-115	37,700-gallon Biodiesel/Water Decanter Process Vessel, Ref. T-115
AC-116	37,700-gallon Biodiesel/Water Decanter Process Vessel, Ref. T-116
AC-228	37,367-gallon Methanol-Sodium Methylate Storage Tank, Ref. T-228, vented to a water scrubber (T-921) via tank T-920
AC-307	13,800-gallon Methanol Day Tank, Ref. T-307
AC-421	12,000-gallon Glycerine Surge Process Vessel, Ref. T-421, vented to a water scrubber (T-921) via tank T-920
AC-600	21,000-gallon 1 st Stage Methanol/Water Wash Process Vessel, Ref. T-600
AC-610	21,000-gallon 2 nd Stage Methanol/Water Wash Process Vessel, Ref. T-610
AC-920	10,664-gallon Methanol/Water Process Vessel, Ref. T-920, collecting emissions from AC-228, AC-421, AD-303, and AD-702, prior to venting through a water scrubber (Ref.: T-921)
AC-2003	85,160-gallon Methanol Storage Tank, T-2003

Emission Point	Description
<i>The following tanks are included for completeness but all have emissions less than 1 lb/hr of any regulated air pollutant and less than 0.1 lb/hr of any hazardous air pollutant and none are subject to an NSPS or MACT standard. Therefore, the following tanks are all insignificant activities and have no specific permit requirements.</i>	
AC-125	21,000-gallon Citric Acid Storage Tank, Ref. T-125
AC-229	74,407-gallon Biodiesel (FAME) Storage Tank, Ref. T-229
AC-430	15,500-gallon Soybean Oil Storage Tank, Ref. T-430
AC-501	21,168-gallon Free Fatty Acids (FFA) Storage Tank, Ref. T-501
AC-512	21,138-gallon Biodiesel (FAME) Storage Tank, Ref. T-512
AC-514	63,588-gallon Biodiesel Storage Tank, Ref. T-514
AC-520	9,700-gallon Spend Wash Water Surge Process Tank, Ref. T-520
AC-522	19,500-gallon Methanol/Water Storage Tank, Ref. T-522
AC-704	21,138-gallon Methanol/Water Storage Tank, Ref. T-704
AC-706	20,826-gallon Methanol/Water Storage Tank, Ref. T-706
AC-750	22,500-gallon Methanol/Water Storage Tank, Ref. T-750
AC-916	18,500-gallon API Wastewater (Skimmed Oil) Storage Tank, Ref. T-916
AC-917	19,000-gallon API Wastewater (Skimmed Oil) Storage Tank, Ref. T-917
AC-1000	42,566-gallon Recovered Biodiesel Surge Process Vessel, Ref. T-1000
AC-2004	87,041-gallon Glycerol Storage Tank, Ref. T-2004
AC-2005	87,246-gallon Glycerol/Free Fatty Acid (FFA) Separation Tank, Ref. T-2005
AC-2006	87,150-gallon Biodiesel (FAME) Storage Tank, Ref. T-2006
AC-2008	87,342-gallon Methanol/Water Wash Process Vessel, Ref. T-2008
AC-2009	87,150-gallon Biodiesel (FAME) Storage Tank, Ref. T-2009
AC-2010	87,425-gallon Soybean Oil Storage Tank, Ref. T-2010
AC-5000	211,483-gallon Biodiesel (FAME) Storage Tank, Ref. T-5000
AC-5001	211,483-gallon Biodiesel (FAME) Storage Tank, Ref. T-5001

Emission Point	Description
AC-5002	211,483-gallon Biodiesel (FAME) Storage Tank, Ref. T-5002
AC-5003	211,376-gallon Soybean Oil Storage Tank, Ref. T-5003
AC-5004	211,537-gallon Soybean Oil Storage Tank, Ref. T-5004
AC-6310	1,900-gallon Soybean Oil Receiver Process Tank, Ref. T-6310
AC-15070	634,962-gallon Biodiesel (FAME) Storage Tank, Ref. T-15070
AC-18350	770,758-gallon Soybean Oil Storage Tank, Ref. T-18350
Miscellaneous Equipment	
AD-001	6,000 gpm Cooling Tower
AD-002	Methyl Ester Isotank Blending and Drum Packaging Area (<i>Insignificant Activity</i>)
AD-303	Recovered Methanol Drum, D-303b, vented to a water scrubber (T-921) via tank T-920
AD-702	4,510-gallon Condensation Drum, Ref. D-702, vented to a water scrubber (T-921) via tank T-920
AD-752	Knock-out Condenser Drum, Ref. D-752, for the methanol/water distillation column (C-751)

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. Emission Point Specific Emission Limitations & Standards

Emission Point(s)	Applicable Requirement	Condition Number(s)	Pollutant/Parameter	Limit/Standard
AA-001	MACT Subpart FFFF - Miscellaneous Organic Chemical Manufacturing; 40 CFR 63.2435(a)	3.B.1	HAP	Applicability
AA-002	NSPS Subpart VVa – Equipment Leaks of VOC in SOCMI; 40 CFR 60.480a	3.B.2	VOC	Applicability to Leak Detection and Repair (LDAR) for the Biodiesel/Glycerol Production Unit

Emission Point(s)	Applicable Requirement	Condition Number(s)	Pollutant/Parameter	Limit/Standard
AA-002	40 CFR 60.482-1a	3.B.3	VOC	General Standards
	40 CFR 60.482-4a(a)	3.B.4		Pressure relief devices in gas/vapor service operated with no detectable emissions
	40 CFR 60.482-4a(c)	3.B.5		Exemption for pressure relief devices routed to a process or fuel gas system
	40 CFR 60.482-5a(a)	3.B.6		Sampling connection system requirements
	40 CFR 60.482-6a	3.B.7		Open-ended valve or line requirements
AB-001, AB-002	11 Miss. Admin. Code Pt. 2, R. 1.4.A(1).	3.B.8	SO ₂	4.8 lb/MMBTU
	11 Miss. Admin. Code Pt. 2, R. 1.3.D(1)(b).	3.B.9	PM (filterable only)	$E=0.8808 \cdot I^{-0.1667}$
	Permit to Construct issued July 15, 2011, and modified March 4, 2013	3.B.10	Fuel	Burn only natural gas
	40 CFR 63, Subpart DDDDD (40 CFR 63.7485)	3.B.11	HAP	Applicability
	40 CFR 63, Subpart DDDDD (40 CFR 63.7500(e))	3.B.12		Standards apply at all times

3.B.1 For the Biodiesel Production Facility, AA-001, beginning October 8, 2016, the permittee shall comply with all applicable requirements of the National Emission Standards for Hazardous Air Pollutants: Miscellaneous Organic Chemical Manufacturing (40 CFR Part 63, Subpart FFFF) and the General Provisions (40 CFR Part 63, Subpart A).

(Ref.: 40 CFR 63.2435(a))

3.B.2 For the Biodiesel/Glycerol Production Units, the permittee is subject to and shall comply with all applicable requirements of the New Source Performance Standards for Equipment Leaks of VOC in the Synthetic Organic Chemicals Manufacturing Industry for Which Construction, Reconstruction, or Modification Commenced After November 7, 2006 (40 CFR Part 60, Subpart VVa) and the General Provisions (40 CFR Part 60, Subpart A).

(Ref.: 40 CFR 60.480a)

3.B.3 For Emission Point AA-002, the following general standards apply:

- (a) Equipment that is in vacuum service is excluded from the requirements of 40 CFR 60.482-2a through 60.482-10a if it is identified as required in 40 CFR 60.486a(e)(5).
- (b) Equipment that an owner or operator designates as being in VOC service less than 300 hr/yr is excluded from the requirements of 40 CFR 60.482-2a through 60.482-11a if it is identified as required in 40 CFR 60.486a(e)(6) and it meets any of the conditions specified in paragraphs (1) through (3) below.

(1) The equipment is in VOC service only during startup and shutdown, excluding startup and shutdown between batches of the same campaign for a batch process.

(2) The equipment is in VOC service only during process malfunctions or other emergencies.

(3) The equipment is backup equipment that is in VOC service only when the primary equipment is out of service.

(Ref.: 40 CFR 60.482-1a(d) and (e))

3.B.4 For Emission Point AA-002, except during pressure releases, each pressure relief device in gas/vapor service shall be operated with no detectable emissions, as indicated by an instrument reading of less than 500 ppm above background, as determined by the methods specified in 40 CFR 60.485a(c).

(Ref.: 40 CFR 60.482-4a(a))

3.B.5 For Emission Point AA-002, any pressure relief device that is routed to a process or fuel gas system is exempted from the requirements of 40 CFR 60.482a(a) and (b).

(Ref.: 40 CFR 60.482-4a(c))

3.B.6 For Emission Point AA-002, each sampling connection system shall be equipped with a closed-purge, closed-loop, or closed-vent system, except as provided in 40 CFR 60.482-1a(c) and 40 CFR 60.482-5a(c).

(Ref.: 40 CFR 60.482-5a(a))

3.B.7 For Emission Point AA-002, each open-ended valve or line shall meet the following requirements:

- (a) Each open-ended valve or line shall be equipped with a cap, blind flange, plug, or a second valve, except as provided in paragraphs (b)-(d) below. The cap, blind flange, plug, or second valve shall seal the open end at all times except during operations requiring process fluid flow through the open-ended valve or line.
- (b) Each open-ended valve or line equipped with a second valve shall be operated in a manner such that the valve on the process fluid end is closed before the second valve is closed.
- (c) When a double block-and-bleed system is being used, the bleed valve or line may remain open during operations that require venting the line between the block valves but shall comply with paragraph (a) of this section at all other times.
- (d) Open-ended valves or lines in an emergency shutdown system which are designed to open automatically in the event of a process upset are exempt from the requirements of paragraphs (a), (b), and (c) of this section.

(Ref.: 40 CFR 60.482-6a)

3.B.8 For Emission Points AB-001 and AB-002, the discharge of sulfur oxides 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.9 For Emission Points AB-001 and AB-002, the maximum permissible emission of ash and/or particulate matter 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 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.10 For Emission Points AB-001 and AB-002, the permittee shall only burn natural gas.

(Ref.: Permit to Construct issued July 15, 2011, and modified March 4, 2013)

3.B.11 For Emission Points AB-001 and AB-002, beginning October 8, 2016, the permittee shall 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) and the applicable General Provisions (40 CFR Part 63, Subpart A). Emission Points AB-001 and AB-002

meet the definition of existing units, greater than 10 MMBTU/hr, designed to burn gas 1 fuels as categorized in 40 CFR 63.7499 and defined in 40 CFR 63.7575.

(Ref.: 40 CFR 63.7485)

- 3.B.12 Beginning October 8, 2016, for Emission Points AB-001 and AB-002, the permittee must be in compliance with the 40 CFR 63, Subpart DDDDD standards at all times, except during periods of startup and shutdown, during which time permittee must comply only with Table 3 of 40 CFR 63, Subpart DDDDD.

(Ref.: 40 CFR 63.7500(e))

C. Insignificant and Trivial Activity Emission Limitations & Standards

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

- 3.C.1 The maximum permissible emission of ash and/or particulate matter from fossil fuel burning installations of less than 10 million BTU per hour heat input shall not exceed 0.6 pounds per million BTU per hour heat input.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 1.3.D(1)(a).)

- 3.C.2 The maximum discharge of sulfur oxides from any fuel burning installation in which the fuel is burned primarily to produce heat or power by indirect heat transfer shall not exceed 4.8 pounds (measured as sulfur dioxide) per million BTU heat input.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 1.4.A(1).)

D. Work Practice Standards

Emission Points(s)	Applicable Requirement	Condition Number(s)	Pollutant/Parameter	Work Practice
AB-001 AB-002	40 CFR 63, Subpart DDDDD (40 CFR 63.7500(a)(1) and Table 3; 63.7510(e); and 40 CFR 63.7575)	3.D.1 3.D.5 3.D.6	HAP	Conduct one-time energy assessment by October 8, 2016
	40 CFR 63, Subpart DDDDD (40 CFR 63.7515(d); 63.7540(a)(10); 63.7540(a)(10); and 63.7540(a)(13))	3.D.1 3.D.2 3.D.3 3.D.4	HAP	Conduct initial tune-up by October 8, 2016 Conduct annual tune-ups thereafter.
	40 CFR 63, Subpart DDDDD (40 CFR 63.7500(a)(3))	3.D.7	HAP	Operate and maintain sources in a manner consistent with safety and good air pollution control practices for minimizing emissions.

3.D.1 For Emission Points AB-001 and AB-002, the permittee must complete an initial tune-up by following the procedures described in 63.7540(a)(10)(i) through (vi) and complete the one-time energy assessment specified in Table 3 of 40 CFR 63, Subpart DDDDD, both no later than October 8, 2016. The tune-up and energy assessment procedures are outlined in the following permit conditions.

(Ref. 40 CFR 63.7500(a)(1) and 63.7510(e))

3.D.2 Beginning October 8, 2016, for Emission Points AB-001 and AB-002 (which are not equipped with continuous oxygen trim systems to maintain optimum air/fuel ratio), the permittee must conduct annual tune-ups with each tune-up being performed no more than 13 months after the previous tune-up.

(Ref. 40 CFR 63.7515(d) and 63.7540(a)(10))

3.D.3 For Emission Points AB-001 and AB-002, the permittee must conduct tune-ups to demonstrate continuous compliance as specified in the following paragraphs.

- (a) As applicable, inspect the burner, and clean or replace any components of the burner as necessary (permittee may delay the burner inspection until the next scheduled or unscheduled 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 ensure that it is correctly calibrated and functioning properly (permittee may delay the inspection until the next scheduled shutdown);
- (d) Optimize total emissions of carbon monoxide. This optimization should be consistent with the manufacturer's specifications, if available, and with any NO_x requirement to which the unit is subject;
- (e) Measure the concentrations in the effluent stream of carbon monoxide 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 the Administrator, an annual report containing the information in paragraphs (1) through (3) of this below,
 - (1) The concentrations of carbon monoxide 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 unit;
 - (2) A description of any corrective actions taken as a part of the tune-up; and
 - (3) The type and amount of fuel used over the 12 months prior to the tune-up, 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 used by each unit.

(Ref. 40 CFR 63.7540(a)(10))

- 3.D.4 Beginning October 8, 2016, for Emission Points AB-001 and AB-002, if the emission point is not operating on the required date for a tune-up, the tune-up must be conducted within 30 calendar days of startup.

(Ref. 40 CFR 63.7540(a)(13))

- 3.D.5 For Emission Points AB-001 and AB-002, the permittee must have a one-time energy assessment performed by a qualified energy assessor by October 8, 2016. An energy assessment completed on or after January 1, 2008, that meets or is amended to meet the energy assessment requirements below, satisfies the energy assessment requirement. A facility that operates under an energy management program compatible with ISO 50001 that includes the affected units also satisfies the energy assessment requirement. The energy assessment must include the following with extent of evaluation for items (a) through (e) appropriate for the on-site technical hours specified for the energy assessment:

- (a) A visual inspection of the boiler or process heater system.
- (b) An evaluation of operating characteristics of the boiler or process heater systems, 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 process heaters and which are under the control of the boiler/process heater 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.
- (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, Subpart DDDDD, Table 3)

- 3.D.6 For Emission Points AB-001 and AB-002, the energy assessment shall be 8 on-site technical labor hours in length maximum, but may be longer at the discretion of the owner or operator of the affected source. The boiler system(s) and any on-site energy use system(s) accounting for at least 50 percent of the affected boiler(s) energy (e.g., steam, hot water, process heat, or electricity) production, as applicable, will be evaluated to identify energy savings opportunities, within the limit of performing an 8-hour on-site energy assessment.

(Ref. 40 CFR 63.7575, definition of Energy Assessment, paragraph 1)

- 3.D.7 Beginning October 8, 2016, for Emission Points AB-001 and AB-002, the permittee shall, at all times, operate and maintain the affected sources, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Agency that may include, but is not limited to, monitoring

results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source.

(Ref. 40 CFR 63.7500(a)(3))

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 For Emission Points AB-001 and AB-002, the permittee is subject to and shall comply with the 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) and the applicable General Provisions (40 CFR Part 63, Subpart A). The permittee shall comply with the requirements of Subpart DDDDD as specified in Sections 3.B, 3.D, 5.B, and 5.C of this permit no later than October 8, 2016, which is three years from the date the facility becomes a major source of hazardous air pollutants.
- 4.4 For the Biodiesel Production Facility, AA-001, the permittee is subject to and shall comply with the applicable requirements of the National Emission Standards for Hazardous Air Pollutants: Miscellaneous Organic Chemical Manufacturing (40 CFR Part 63, Subpart FFFF) and the applicable General Provisions (40 CFR Part 63, Subpart A). The permittee shall comply with Subpart FFFF no later than October 8, 2016, which is three years from the date the facility becomes a major source of hazardous air pollutants. The permittee shall develop and submit a plan for demonstrating compliance with Subpart FFFF. The plan shall be submitted to DEQ with a request to modify the Title V Operating Permit to incorporate the applicable requirements within 180 days of the compliance date of October 8, 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 and Recordkeeping Requirements

Emission Point(s)	Pollutant/Parameter Monitored	Monitoring/Recordkeeping Requirement	Condition Number	Applicable Requirement
AA-002	VOC	<u>Leak Detection and Repair Requirements</u>		
		Compliance Demonstration	5.B.1	40 CFR 60.482-1a(b)
		Pumps in light liquid service: Monthly monitoring, weekly visual inspections	5.B.2	40 CFR 60.482-2a(a)-(c)
		Pressure relief devices in gas/vapor service: Return to no detectable emissions, exemption for device equipped with rupture disk	5.B.3 5.B.4	40 CFR 60.482-4a(b), 40 CFR 60.482-4a(d)
		Sampling Connection Systems	5.B.5, 5.B.6	40 CFR 60.482-5a(b), 40 CFR 60.482-5a(c)
		Valves in gas/vapor or light liquid service: Comply with 2.0% leaking valves standard	5.B.7	40 CFR 60.482-7a(a)(1) and 60.483-2a(b)
		Monitor new valve within 30 days of startup	5.B.8	40 CFR 60.482-7a(2) and 60.483-2a(b)(7)
		Leak definition of 500 ppm or greater	5.B.9	40 CFR 60.482-7a(b)
		Requirements/exemptions for valves designated for no detectable emissions	5.B.10	40 CFR 60.482-7a(f)
		Requirements/exemptions for valves designated as difficult-to-monitor	5.B.11	40 CFR 60.482-7a(h)
		Pumps, valves, and connectors in heavy liquid service and pressure relief devices in heavy or light liquid service	5.B.12	40 CFR 60.482-8a(a)
		Delay of Repair Requirements	5.B.13	40 CFR 60.482-9a

Emission Point(s)	Pollutant/Parameter Monitored	Monitoring/Recordkeeping Requirement	Condition Number	Applicable Requirement
		Indefinite stay of standards for connectors on gas/vapor and light liquid service	5.B.14	40 CFR 60.482-11a
AA-002	VOC	<u>LDAR Recordkeeping Requirements</u>		
		Records for each monitoring event	5.B.15	40 CFR 60.486a(a)(3)
		Identification requirements for leaking pump, valve, or connector	5.B.16	40 CFR 60.486a(b)
		Records required for leaking pumps, valves, and connectors	5.B.17	40 CFR 60.486a(c)
		Identification of applicable and excluded equipment	5.B.18	40 CFR 60.486a(e)
		Records for valves designated as difficult-to-monitor	5.B.19	40 CFR 60.486a(f)(2)
		Monitoring schedule for valves and percent leaking valves	5.B.20	40 CFR 60.486a(g)
AB-001 AB-002	HAP	Recordkeeping – Notifications, Compliance Demonstrations and Performance Evaluations	5.B.21	40 CFR 63.7555(a)
		Recordkeeping – Startup and Shutdown	5.B.22	40 CFR 63.7555(i)
			5.B.23	40 CFR 63.7555(j)
		Recordkeeping - General	5.B.24	40 CFR 63.7560

5.B.1 For Emission Point AA-002, compliance with 40 CFR 60.482-1a to 60.482-10a will be determined by review of records and reports, review of performance test results, and inspection using the methods and procedures specified in 40 CFR 60.485a.

(Ref.: 40 CFR 60.482-1a(b))

5.B.2 For Emission Point AA-002, the permittee shall comply with the following standards for pumps in light liquid service:

- (a) (1) Each pump in light liquid service shall be monitored monthly to detect leaks by the methods specified in 40 CFR 60.485a(b), except as provided in 40

CFR 60.482-1a(c) and (f) and paragraphs (d), (e), and (f) of this section. A pump that begins operation in light liquid service after the initial startup date for the process unit must be monitored for the first time within 30 days after the end of its startup period, except for a pump that replaces a leaking pump and except as provided in 40 CFR 60.482-1a(c) and paragraphs (d), (e), and (f) of this section.

- (2) Each pump in light liquid service shall be checked by visual inspection each calendar week for indications of liquids dripping from the pump seal, except as provided in 40 CFR 60.482-1a(f).
- (b) (1) The instrument reading that defines a leak is 2,000 ppm or greater.
- (2) If there are indications of liquids dripping from the pump seal, the owner or operator shall follow the procedure specified in either paragraph (b)(2)(i) or (ii). This requirement does not apply to a pump that was monitored after a previous weekly inspection and the instrument reading was less than the concentration specified in paragraph (b)(1).
 - (i) Monitor the pump within 5 days as specified in 40 CFR 60.485a(b). A leak is detected if the instrument reading measured during monitoring indicates a leak. The leak shall be repaired using the procedures in paragraph (c) of this section.
 - (ii) Designate the visual indications of liquids dripping as a leak, and repair the leak using either the procedures in paragraph (c) below or by eliminating the visual indications of liquids dripping.
- (c) (1) When a leak is detected, it shall be repaired as soon as practicable, but not later than 15 calendar days after it is detected, except as provided in 40 CFR 60.482-9a.
- (2) A first attempt at repair shall be made no later than 5 calendar days after each leak is detected. First attempts at repair include, but are not limited to, the practices described in paragraphs (c)(2)(i) and (ii), where practicable.
 - (i) Tightening the packing gland nuts;
 - (ii) Ensuring that the seal flush is operating at design pressure and temperature.

(Ref.: 40 CFR 60.482-2a(a)-(c))

5.B.3 For Emission Point AA-002, the permittee shall comply with the following standards for pressure relief devices in gas/vapor service:

- (a) After each pressure release, the pressure relief device shall be returned to a condition of no detectable emissions, as indicated by an instrument reading of less

than 500 ppm above background, as soon as practicable, but no later than 5 calendar days after the pressure release, except as provided in 40 CFR 60.482-9a.

- (b) No later than 5 calendar days after the pressure release, the pressure relief device shall be monitored to confirm the conditions of no detectable emissions, as indicated by an instrument reading of less than 500 ppm above background, by the methods specified in 40 CFR 60.485a(c).

(Ref.: 40 CFR 60.482-4a(b))

- 5.B.4 For Emission Point AA-002, any pressure relief device that is equipped with a rupture disk upstream of the pressure relief device is exempt from the requirements of 40 CFR 60.482a(a) and (b), provided the owner or operator complies with the following requirement: After each pressure release, a new rupture disk shall be installed upstream of the pressure relief device as soon as practicable, but no later than 5 calendar days after each pressure release, except as provided in 40 CFR 60.482-9a.

(Ref.: 40 CFR 60.482-4a(d))

- 5.B.5 For Emission Point AA-002, the permittee shall comply with the following standards for sampling connection systems:

- (a) Gases displaced during filling of the sample container are not required to be collected or captured.
- (b) Containers that are part of a closed-purge system must be covered or closed when not being filled or emptied.
- (c) Gases remaining in the tubing or piping between the closed-purge system valve(s) and sample container valve(s) after the valves are closed and the sample container is disconnected are not required to be collected or captured.
- (d) Each closed-purge, closed-loop, or closed-vent system shall be designed and operated to meet one of the following requirements below:
 - (1) Return the purged process fluid directly to the process line.
 - (2) Collect and recycle the purged process fluid to a process.
 - (3) Capture and transport all the purged process fluid to a control device that complies with the requirements of 40 CFR 60.482-10a.
 - (4) Collect, store, and transport the purged process fluid to one of the systems or facilities meeting the requirements in 40 CFR 60.482-5a(b)(4)(iv)(A)-(E).

(Ref.: 40 CFR 60.482-5a(b))

- 5.B.6 For Emission Point AA-002, in-situ sampling systems and sampling systems without purges are exempt from the requirements of 40 CFR 60.482-5a(a) and (b).

(Ref.: 40 CFR 60.482-5a(c))

- 5.B.7 For Emission Point AA-002, for valves in gas/vapor service and in light liquid service, each valve shall be monitored monthly to detect leaks by the methods specified in 40 CFR 60.485a(b), except as specified below:

- (a) After 2 consecutive quarterly leak detection periods with the percent of valves leaking equal to or less than 2.0, an owner or operator may begin to skip one (1) of the quarterly leak detection periods for the valves in gas/vapor and light liquid service.
- (b) After 5 consecutive quarterly leak detection periods with the percent of valves leaking equal to or less than 2.0, an owner or operator may begin to skip three (3) of the quarterly leak detection periods for the valves in gas/vapor and light liquid service.
- (c) If the percent of valves leaking is greater than 2.0, the owner or operator shall comply with the requirements as described in 40 CFR 60.482-7a but can again elect to use this section.
- (d) The percent of valves leaking shall be determined as described in 40 CFR 60.485a(h).
- (e) The permittee must keep a record of the percent of valves found leaking during each leak detection period.

(Ref.: 40 CFR 60.482-7a(a)(1) and 60.483-2a(b))

- 5.B.8 For Emission Point AA-002, a valve that begins operation in gas/vapor service or light liquid service after the initial startup date for a process unit must be monitored according to paragraph (a) or (b) below:

- (a) The valve must be monitored for the first time within 30 days after the end of its startup period to ensure proper installation.
- (b) If complying with 40 CFR 60.483-2a, count the new valve as leaking when calculating the percentage of valves leaking as described in 40 CFR 60.483-2a(b)(5). If less than 2.0 percent of the valves are leaking for that process unit, the valve must be monitored for the first time during the next scheduled monitoring

event for existing valves in the process unit or within 90 days, whichever comes first.

(Ref.: 40 CFR 60.482-7a(2) and 60.483-2a(b)(7))

- 5.B.9 For valves under Emission Point AA-002, if an instrument reading of 500 ppm or greater is measured, a leak is detected.

(Ref.: 40 CFR 60.482-7a(b))

- 5.B.10 For Emission Point AA-002, any valve that is designated, as described in 40 CFR 60.486a(e)(2), for no detectable emissions, as indicated by an instrument reading of less than 500 ppm above background, is exempt from the periodic monitoring requirements of Condition 5.B.7 if the valve:

- (a) Has no external actuating mechanism in contact with the process fluid,
- (b) Is operated with emissions less than 500 ppm above background as determined by the method specified in 40 CFR 60.485a(c), and
- (c) Is tested for compliance with (b) above initially upon designation, annually, and at other times requested by the MDEQ.

(Ref.: 40 CFR 60.482-7a(f))

- 5.B.11 For Emission Point AA-002, any valve that is designated, as described in 40 CFR 60.486a(f)(2), as a difficult-to-monitor valve is exempt from the periodic monitoring requirements of Condition 5.B.7 if:

- (a) The owner or operator of the valve demonstrates that the valve cannot be monitored without elevating the monitoring personnel more than 2 meters above a support surface.
- (b) The process unit within which the valve is located either:
 - (1) Becomes an affected facility through § 60.14 or § 60.15 and was constructed on or before January 5, 1981; or
 - (2) Has less than 3.0 percent of its total number of valves designated as difficult-to-monitor by the owner or operator.
- (c) The owner or operator of the valve follows a written plan that requires monitoring of the valve at least once per calendar year.

(Ref.: 40 CFR 60.482-7a(h))

5.B.12 For Emission Point AA-002, for pumps, valves, and connectors in heavy liquid service and pressure relief devices in light liquid or heavy liquid service, if evidence of a potential leak is found by visual, audible, olfactory, or any other detection method at pumps, valves, and connectors in heavy liquid service and pressure relief devices in light liquid or heavy liquid service, the permittee shall follow either one of the following procedures:

- (a) The owner or operator shall monitor the equipment within 5 days by the method specified in 40 CFR 60.485a(b) and shall comply with the requirements of 40 CFR 60.482-8a(b)-(d).
- (b) The owner or operator shall eliminate the visual, audible, olfactory, or other indication of a potential leak within 5 calendar days of detection.

(Ref.: 40 CFR 60.482-8a(a))

5.B.13 For Emission Point AA-002, the permittee may delay repair of an equipment leak in accordance with the Delay of Repair Standards found in 40 CFR 60.482-9a.

(Ref.: 40 CFR 60.482-9a)

5.B.14 For Emission Point AA-002, per 73 FR 31376, June 2, 2008, the standards for connectors in gas/vapor service and in light liquid service found in 40 CFR 60.482-11a were stayed until further notice.

(Ref.: 40 CFR 60.482-11a)

5.B.15 For Emission Point AA-002, the permittee shall record the information specified below for each monitoring event required by 40 CFR 60.482-2a, 60.482-7a, 60.482-8a, and 60.483-2a.

- (a) Monitoring instrument identification.
- (b) Operator identification.
- (c) Equipment identification.
- (d) Date of monitoring.
- (e) Instrument reading.

(Ref.: 40 CFR 60.486a(a)(3))

5.B.16 For Emission Point AA-002, when each leak is detected as specified in 40 CFR 60.482-2a, 60.482-7a, 60.482-8a, and 60.483-2a, the following requirements apply:

- (a) A weatherproof and readily visible identification, marked with the equipment identification number, shall be attached to the leaking equipment.
- (b) The identification on a valve may be removed after it has been monitored for 2 successive months as specified in 40 CFR 60.482-7a(c) and no leak has been detected during those 2 months.
- (c) The identification on equipment, except on a valve or connector, may be removed after it has been repaired.

(Ref.: 40 CFR 60.486a(b))

5.B.17 For Emission Point AA-002, when each leak is detected as specified in §§ 60.482-2a, 60.482-7a, 60.482-8a, and 60.483-2a, the following information shall be recorded in a log and shall be kept in accordance with Condition 5.A.3 in a readily accessible location:

- (a) The instrument and operator identification numbers and the equipment identification number, except when indications of liquids dripping from a pump are designated as a leak.
- (b) The date the leak was detected and the dates of each attempt to repair the leak.
- (c) Repair methods applied in each attempt to repair the leak.
- (d) Maximum instrument reading measured by Method 21 of appendix A-7 of 40 CFR Part 60 at the time the leak is successfully repaired or determined to be nonreparable, except when a pump is repaired by eliminating indications of liquids dripping.
- (e) "Repair delayed" and the reason for the delay if a leak is not repaired within 15 calendar days after discovery of the leak.
- (f) The signature of the permittee (or designate) whose decision it was that repair could not be effected without a process shutdown.
- (g) The expected date of successful repair of the leak if a leak is not repaired within 15 days.
- (h) Dates of process unit shutdowns that occur while the equipment is unrepaired.
- (i) The date of successful repair of the leak.

(Ref.: 40 CFR 60.486a(c))

5.B.18 For Emission Point AA-002, the following information pertaining to all equipment subject to the requirements in 40 CFR 60.482-1a to 60.482-11a shall be recorded in a log that is kept in a readily accessible location:

- (a) A list of identification numbers for equipment subject to the requirements of this subpart.
- (b) A list of identification numbers for equipment that are designated for no detectable emissions under the provisions of 40 CFR 60.482-2a(e) and 60.482-7a(f). The designation of equipment as subject to the requirements of 40 CFR 60.482-2a(e) or 60.482-7a(f) shall be signed by the permittee.
- (c) A list of equipment identification numbers for pressure relief devices required to comply with 40 CFR 60.482-4a.
- (d) The dates of each compliance test as required in 40 CFR 60.482-2a(e), 60.482-4a, and 60.482-7a(f). The background level measured during each compliance test. The maximum instrument reading measured at the equipment during each compliance test.
- (e) A list of identification numbers for equipment in vacuum service.
- (f) A list of identification numbers for equipment that the owner or operator designates as operating in VOC service less than 300 hr/yr in accordance with 40 CFR 60.482-1a(e), a description of the conditions under which the equipment is in VOC service, and rationale supporting the designation that it is in VOC service less than 300 hr/yr.
- (g) The date and results of the weekly visual inspection for indications of liquids dripping from pumps in light liquid service.
- (h) Records of the information specified in 40 CFR 60.486a(e)(8)(i) through (vi) for monitoring instrument calibrations conducted according to sections 8.1.2 and 10 of Method 21 of appendix A-7 of 40 CFR Part 60 and 40 CFR 60.485a(b).
- (i) Records of each release from a pressure relief device subject to 40 CFR 60.482-4a.

(Ref.: 40 CFR 60.486a(e))

5.B.19 For Emission Point AA-002, the following information pertaining to all valves subject to the requirements of 40 CFR 60.482-7a(h) shall be recorded in a log that is kept in a readily accessible location: A list of identification numbers for valves that are designated

as difficult-to-monitor, an explanation for each valve stating why the valve is difficult-to-monitor, and the schedule for monitoring each valve.

(Ref.: 40 CFR 60.486a(f)(2))

5.B.20 For Emission Point AA-002, the following information shall be recorded for valves complying with 40 CFR 60.483-2a:

- (a) A schedule of monitoring.
- (b) The percent of valves found leaking during each monitoring period.

(Ref.: 40 CFR 60.486a(g))

5.B.21 For Emission Points AB-001 and AB-002, the permittee shall keep the following records:

- (a) A copy of each notification and report that the permittee submitted to comply with Subpart DDDDD, including all documentation supporting any Initial Notification or Notification of Compliance Status or semiannual compliance report that the permittee submitted, according to the requirements in 40 CFR 63.10(b)(2)(xiv).
- (b) Records of compliance demonstrations and performance evaluations as required in 40 CFR 63.10(b)(2)(viii).

(Ref. 40 CFR 63.7555(a))

5.B.22 For Emission Points AB-001 and AB-002, the permittee shall maintain records of the calendar date, time, occurrence and duration of each startup and shutdown.

(Ref. 40 CFR 63.7555(i))

5.B.23 For Emission Points AB-001 and AB-002, the permittee shall maintain records of the type(s) and amount(s) of fuels used during each startup and shutdown.

(Ref. 40 CFR 63.7555(j))

5.B.24 For Emission Points AB-001 and AB-002, the permittee shall maintain records as outlined in paragraphs (a) through (c) below.

- (a) Your records must be in a form suitable and readily available for expeditious review, according to §63.10(b)(1).

- (b) As specified in § 63.10(b)(1), you must keep each record for 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record.
- (c) You must keep each record on site, or they must be accessible from on site (for example, through a computer network), for at least 2 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to § 63.10(b)(1). You can keep the records off site for the remaining 3 years.

(Ref. 40 CFR 63.7560)

C. Specific Reporting Requirements

Emission Point(s)	Pollutant/Parameter Monitored	Reporting Requirement	Condition Number	Applicable Requirement
AA-002	VOC	Semiannual LDAR reporting frequency	5.C.1	40 CFR 60.487a(a)
		Initial semiannual LDAR report requirements	5.C.2	40 CFR 60.487a(b)
		Requirements for all semiannual LDAR reports	5.C.3	40 CFR 60.487a(c)
		Notification of alternative LDAR standards	5.C.4	40 CFR 60.487a(d)
		Reporting LDAR performance tests	5.C.5	40 CFR 60.487a(e)
AB-001 AB-002	HAP	Notifications - Compliance Status	5.C.6	40 CFR 63.7530(d) and (e), and 63.7545(e)
		Notifications - General	5.C.7	40 CFR 63.7545(a)
		Compliance Reports - Schedule	5.C.8	40 CFR 63.7550(a) and (b), and Table 9
		Compliance Reports - Content	5.C.9	40 CFR 63.7550(c)
		Compliance Reports – Submissions	5.C.10	11 Miss. Admin. Code, Pt. 2, R. 6.3.C(1) and

Emission Point(s)	Pollutant/Parameter Monitored	Reporting Requirement	Condition Number	Applicable Requirement
				40 CFR 63.7550(h)(3)

- 5.C.1 For Emission Point AA-002, the permittee shall submit semiannual reports beginning six months after the initial startup and consistent with the reporting requirements of Condition 5.A.4.

(Ref.: 40 CFR 60.487a(a))

- 5.C.2 For Emission Point AA-002, the initial semiannual report required by 40 CFR 60.487a(a) shall include the following information:

(1) Process unit identification.

(2) Number of valves subject to the requirements of 40 CFR 60.482-7a, excluding those valves designated for no detectable emissions under the provisions of 40 CFR 60.482-7a(f).

(3) Number of pumps subject to the requirements of 40 CFR 60.482-2a, excluding those pumps designated for no detectable emissions under the provisions of 40 CFR 60.482-2a(e) and those pumps complying with 40 CFR 60.482-2a(f).

(4) Number of compressors subject to the requirements of 40 CFR 60.482-3a, excluding those compressors designated for no detectable emissions under the provisions of 40 CFR 60.482-3a(i) and those compressors complying with 40 CFR 60.482-3a(h).

(Ref.: 40 CFR 60.487a(b))

- 5.C.3 For Emission Point AA-002, all of the semiannual reports required by 40 CFR 60.487a(a) shall include the following information:

(1) Process unit identification.

(2) For each month during the semiannual reporting period,

(i) Number of valves for which leaks were detected as described in 40 CFR 60.482-7a(b) or 40 CFR 60.483-2a,

(ii) Number of valves for which leaks were not repaired as required in 40 CFR 60.482-7a(d)(1),

(iii) Number of pumps for which leaks were detected as described in 40 CFR 60.482-2a(b), (d)(4)(ii)(A) or (B), or (d)(5)(iii),

(iv) Number of pumps for which leaks were not repaired as required in 40 CFR 60.482-2a(c)(1) and (d)(6),

(v) Number of compressors for which leaks were detected as described in 40 CFR 60.482-3a(f),

(vi) The facts that explain each delay of repair and, where appropriate, why a process unit shutdown was technically infeasible.

(3) Dates of process unit shutdowns which occurred within the semiannual reporting period.

(4) Revisions to items reported according to paragraph (b) above if changes have occurred since the initial report or subsequent revisions to the initial report.

(Ref.: 40 CFR 60.487a(c))

- 5.C.4 For Emission Point AA-002, if the permittee elects to comply with the provisions of 40 CFR 60.483-1a or 60.483-2a, the permittee shall notify the DEQ of the alternative standard selected 90 days before implementing either of the provisions.

(Ref.: 40 CFR 60.487a(d))

- 5.C.5 For Emission Point AA-002, the permittee shall report the results of all performance tests in accordance with 40 CFR 60.8 of the General Provisions. The provisions of 40 CFR 60.8(d) do not apply to affected facilities subject to the provisions of Subpart VVa except that an owner or operator must notify the DEQ of the schedule for the initial performance tests at least 30 days before the initial performance tests.

(Ref.: 40 CFR 60.487a(e))

- 5.C.6 For Emission Points AB-001 and AB-002, the permittee shall submit a signed statement in the Notification of Compliance Status report that indicates the tune-up of the unit and the energy assessment required in Section 3.D of this permit have been completed. The statement shall include an evaluation stating the energy assessment was completed in accordance with Table 3 of Subpart DDDDD and is an accurate depiction of the facility at the time of the assessment.

The Notification of Compliance Status shall be submitted no later than 60 days after the completion of all the initial compliance demonstration activities for each boiler at the facility and shall include the required statements from above and all the information specified in 40 CFR 63.7545(e)(1) through (8).

(Ref. 40 CFR 63.7530(d) and (e), and 63.7545(e))

- 5.C.7 For Emission Points AB-001 and AB-002, the permittee shall submit all applicable notifications in 40 CFR 63.7(b) and (c), 63.8(e), (f)(4) and (6), and 63.9(b) through (h) that apply by the dates specified.

(Ref. 40 CFR 63.7545(a))

- 5.C.8 Beginning October 8, 2016, for Emission Points AB-001 and AB-002, the permittee must submit compliance reports to MDEQ annually, postmarked no later than January 31 for the preceding calendar year. The first submission may be for less than a 12-month period.

(Ref. 40 CFR 63.7550(a) and (b), and Table 9 of Subpart DDDDD)

- 5.C.9 Beginning October 8, 2016, for Emission Points AB-001 and AB-002, the permittee must prepare compliance reports containing the information outlined in the following paragraphs.

- (a) Company and Facility name and address.
- (b) Process unit information, emissions limitations, and operating parameter limitations.
- (c) Date of report and beginning and ending dates of the reporting period.
- (d) The total operating time during the reporting period.
- (e) Include the date of the most recent tune-up for each emission point. Include the date of the most recent burner inspection if it was not performed at the required frequency and was delayed until the next scheduled or unscheduled unit shutdown.
- (f) Statement by a responsible official with that official's name, title, and signature, certifying the truth, accuracy, and completeness of the content of the report.

(Ref. 40 CFR 63.7550(c))

- 5.C.10 Beginning October 8, 2016, for Emission Points AB-001 and AB-002, the permittee must submit compliance reports as outlined below.

- (a) Written Reports shall be submitted to MDEQ at the following address:

Chief, Environmental Compliance and Enforcement Division
Mississippi Department of Environmental Quality
Office of Pollution Control
P.O. Box 2261
Jackson, Mississippi 39225

- (b) Electronic reports shall be submitted using CEDRI that is accessed through EPA's Central Data Exchange (CDX) at www.epa.gov/cdx.

(Ref. 11 Miss. Admin. Code, Pt. 2, R. 6.3.C(1). and 40 CFR 63.7550(h)(3))

SECTION 6. ALTERNATIVE OPERATING SCENARIOS

6.1 None permitted.

SECTION 7. TITLE VI REQUIREMENTS

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

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

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

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

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