

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

**TO OPERATE AIR EMISSIONS EQUIPMENT**

**THIS CERTIFIES THAT**

SG Resources, Mississippi LLC, Southern Pines Energy Center  
2501 Tung Oil Road  
Leakesville, Mississippi  
Greene County

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

**Permit Issued: DEC 29 2016**

**Effective Date: As specified herein.**

**MISSISSIPPI ENVIRONMENTAL QUALITY PERMIT BOARD**



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**AUTHORIZED SIGNATURE**

**MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY**

**Expires: NOV 30 2021**

**Permit No.: 0860-00013**

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### **APPENDIX A LIST OF ABBREVIATIONS USED IN THIS PERMIT**

### **APPENDIX B LIST OF REGULATIONS REFERENCED IN PERMIT**

## SECTION 1. GENERAL CONDITIONS

- 1.1 The permittee must comply with all conditions of this permit. Any permit noncompliance constitutes a violation of the Federal Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application. (Ref.: 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 The following requirements apply to any reopening for cause of the permit:
  - (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.
- 1.5 (Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.4.G) 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).)
- 1.6 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).)
- 1.7 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 and shutdowns:

- (a) Upsets (as defined by 11 Miss. Admin. Code Pt. 2, R. 1.2. LL.)
  - (1) For an upset, the Commission may pursue an enforcement action for noncompliance with an emission standard or other requirement of an applicable rule, regulation, or permit. In determining whether to pursue enforcement action, and/or the appropriate enforcement action to take, the Commission may consider whether the source has demonstrated through properly signed contemporaneous operating logs or other relevant evidence the following:
    - (i) an upset occurred and that the source can identify the cause(s) of the upset;
    - (ii) the source was at the time being properly operated;
    - (iii) during the upset the permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standard or other requirement of an applicable rule, regulation, or permit;
    - (iv) that within 5 working days of the time the upset began, the source submitted a written report to the Department describing the upset, the steps taken to mitigate excess emissions or any other noncompliance, and the corrective actions taken and;
    - (v) that as soon as practicable but no later than 24 hours of becoming aware of an upset that caused an immediate adverse impact to human health or the environment beyond the source boundary or caused a general nuisance to the public, the source provided notification to the Department.

- (2) In any enforcement proceeding by the Commission, the source seeking to establish the occurrence of an upset has the burden of proof.
  - (3) This provision is in addition to any upset provision contained in any applicable requirement.
  - (4) These upset provisions apply only to enforcement actions by the Commission and are not intended to prohibit EPA or third party enforcement actions.
- (b) Startups and Shutdowns (as defined by 11 Miss. Admin. Code Pt. 2, R. 1.2.II. & R. 1.2.DD.)
- (1) Startups and shutdowns are part of normal source operation. Emission limitations apply during startups and shutdowns unless source specific emission limitations or work practice standards for startups and shutdowns are defined by an applicable rule, regulation, or permit.
  - (2) Where the source is unable to comply with existing emission limitations established under the State Implementation Plan (SIP) and defined in this regulation, 11 Mississippi Administrative Code, Part 2, Chapter 1, the Department will consider establishing source specific emission limitations or work practice standards for startups and shutdowns. Source specific emission limitations or work practice standards established for startups and shutdowns are subject to the requirements prescribed in 11 Miss. Admin. Code Pt. 2, R. 1.10.B(2)(a) through (e).
  - (3) Where an upset as defined in Rule 1.2 occurs during startup or shutdown, see the upset requirements above.

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

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

## SECTION 2. EMISSION POINTS & POLLUTION CONTROL DEVICES

Emission Point	Description
AA-000	Plantwide Fugitive Emissions
AA-001	BTEX Eliminator No. 1
AA-002	2.0 MMBTU/hr Natural Gas Glycol Dehydration Reboiler #1
AA-003	2.0 MMBTU/hr Natural Gas Glycol Dehydration Reboiler #2
AA-004	400 MMSCF/D Glycol Dehydration Still Vent #1 with emissions controlled by the BTEX Eliminator, AA-001
AA-005	400 MMSCF/D Glycol Dehydration Still Vent #2 with emissions controlled by the BTEX Eliminator, AB-002
AA-006	7,695 HP (45.12 MMBTU/Hr) Natural Gas-Fired, Four-Stroke, Lean-Burn (4SLB) Compressor Engine (Unit A) with emissions controlled by the oxidation catalyst
AA-007	7,695 HP (45.12 MMBTU/Hr) Natural Gas-Fired, Four-Stroke, Lean-Burn (4SLB) Compressor Engine (Unit B) with emissions controlled by the oxidation catalyst
AA-008	7,695 HP (45.12 MMBTU/Hr) Natural Gas-Fired, Four-Stroke, Lean-Burn (4SLB) Compressor Engine (Unit C) with emissions controlled by the oxidation catalyst
AA-009	7,695 HP (45.12 MMBTU/Hr) Natural Gas-Fired, Four-Stroke, Lean-Burn (4SLB) Compressor Engine (Unit D) with emissions controlled by the oxidation catalyst
AA-013	7,695 HP (45.12 MMBTU/Hr) Natural Gas-Fired, Four-Stroke, Lean-Burn (4SLB) Compressor Engine (Unit E) with emissions controlled by the oxidation catalyst
AA-014	7,695 HP (45.12 MMBTU/Hr) Natural Gas-Fired, Four-Stroke, Lean-Burn (4SLB) Compressor Engine (Unit F) with emissions controlled by the oxidation catalyst
AA-015	657 HP (1.75 MMBTU/Hr) Diesel-Fired, Four-Stroke, Lean-Burn (4SLB) Emergency Backup Generator Engine (T-EMGEN)
AA-016	Truck Loading
AA-017	Maintenance Emissions
AA-018	10 MMBTU/Hr Natural Gas Line Heater No. 1
AA-019	10 MMBTU/Hr Natural Gas Line Heater No. 2
AB-002	BTEX Eliminator No. 2
AA-101	8,820 Gallon Slop Fixed Roof Water Storage Tank (T-210)

Emission Point	Description
AA-102	8,820 Gallon Fixed Roof Methanol Storage Tank (T-260)
AA-103	3,000 Gallon Fixed Roof Triethylene Glycol Storage Tank (T-250)
AA-104	8,800 Gallon Fixed Roof Diesel Storage Tank (T-270)
AA-105	4,200 Gallon Fixed Roof Coolant (Ambirtrol) Storage Tank (T-220)
AA-106	4,200 Gallon Fixed Roof Lube Oil Storage Tank (T-230)
AA-107	8,820 Gallon Fixed Roof Process Liquids Storage Tank (T-215)
AA-111	8,820 Gallon Fixed Roof Diesel Storage Tank (D-700)
AA-113	4,200 Gallon Fixed Roof Packing Oil Storage Tank (T-289)
AA-115	8,820 Gallon Fixed Roof Used Lube Oil Storage Tank (T-240)

## 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-002 AA-003 AA-015	11 Miss. Admin. Code Pt. 2, R. 1.3. D(1)(a)	3.B.1	PM	0.6 lbs/MMBTU or as otherwise limited by facility modification restrictions
AA-002 AA-003	11 Miss. Admin. Code Pt. 2, R. 1.4. A(1)	3.B.18	SO <sub>2</sub>	4.8 lbs/MMBTU or as otherwise limited by facility modification restrictions
AA-004	Title V Permit Issued August 19, 2010 and modified herein	3.B.2	Benzene	Shall operate with emissions routed to and controlled by Emission Point AA-001
AA-005	Title V Permit Issued August 19, 2010 and modified herein	3.B.3	Benzene	Shall operate with emissions routed to and controlled by Emission Point AB-002
AA-006 through AA-009	11 Miss. Admin. Code Pt. 2, R. 1.3. D(1)(b)	3.B.4	PM	$E=0.8808 \cdot I^{-0.1667}$ or as otherwise limited by facility modification restrictions
AA-013 AA-014 AA-018 AA-019	Title V Permit issued on August 19, 2010 and modified on November 30, 2012 and modified herein	3.B.5	Fuel Restriction	Shall burn only natural gas
AA-006 through AA-009 AA-013 AA-014	[NESHAP ZZZZ] 40 CFR 63.6580; 40 CFR 63.6585(a); and 40 CFR 63.6590(c)(1)	3.B.6	Area Source HAPs	Applicability only
	[NSPS JJJJ] 40 CFR 60 Subpart JJJJ and 40 CFR 60.4230(a)(4)(i)	3.B.7	NO <sub>x</sub> CO VOC	Applicability only
	[NSPS JJJJ] 40 CFR 60.4233(e) and Table 1 to 40 CFR 60 Subpart JJJJ	3.B.8	NO <sub>x</sub> CO VOC	2.0 g/HP-hr or 160 ppmvd @ 15% O <sub>2</sub> 4.0 g/HP-hr or 540 ppmvd @ 15% O <sub>2</sub> 1.0 g/HP-hr or 86 ppmvd @ 15% O <sub>2</sub>
	Title V Permit issued August 19, 2010 and modified November 30, 2012	3.B.9	NO <sub>x</sub> CO VOC	Shall only operate the compressor engines with emissions routed to and controlled by the oxidation catalyst
	Construction Permit Issued March 7, 2003 and modified December 17, 2004 and modified herein	3.B.10	NO <sub>x</sub> CO	Shall only operate a total of 202,224,600 HP-hr per 12 month rolling total combined for all engines
AA-006 through AA-009	Title V Permit issued on August 19, 2010 and modified on November 30, 2012	3.B.11	NO <sub>x</sub>	12.72 lb/hr and 27.86 tons/yr. The total aggregate from all six engines is limited to 163.47 tons on 12 month rolling basis
		3.B.12	CO	9.86 lb/hr and 21.59 tons/yr. The total aggregate from all six engines is limited to 151.36 tons on 12 month rolling basis
AA-013 AA-014	Title V Permit issued on August 19, 2010 and modified on November 30, 2012	3.B.13	NO <sub>x</sub>	11.88 lb/hr and 26.01 tons/yr. The total aggregate from all six engines is limited to 163.47 tons on 12 month rolling basis

Emission Point(s)	Applicable Requirement	Condition Number(s)	Pollutant/ Parameter	Limit/Standard
		3.B.14	CO	14.84 lb/hr and 32.51 tons/yr. The total aggregate from all six engines is limited to 151.36 tons on 12 month rolling basis
AA-015	[NESHAP ZZZZ] 40 CFR 63.6580; 40 CFR 63.6585(a); and 40 CFR 63.6590(c)(1)	3.B.6	Area Source HAPs	Applicability only
	[NSPS III] 40 CFR 60.4200(a)(2)(i))	3.B.15	THC/NOx CO PM	Applicability only
	[NSPS III] 40 CFR 60.4205(b); 40 CFR 60.4202(a)(2); 40 CFR 60.4211(a)(3); and 40 CFR 89.112(a)	3.B.16	THC/NOx CO PM	4.0 g/kw-hr 3.5 g/kw-hr 0.2 g/kw-hr
	[NSPS III] 40 CFR 60.4207(b))	3.B.17	Fuel Content	Max. sulfur content of 15 ppm; and a min. cetane index of 40 or a max. aromatic content of 35% volume.
AA-018	11 Miss. Admin. Code Pt. 2, R. 1.4. A(1)	3.B.18	SO2	4.8 lbs/MMBTU or as otherwise limited by facility modification restrictions
AA-019	[NSPS Dc] 40 CFR 60.40c(a)	3.B.19	SO2 PM	Applicability only

- 3.B.1 For Emission Points AA-002, AA-003, and AA-015, the permittee shall not have particulate emissions from fossil fuel burning installations of less than 10 MMBTU/hr heat input that exceeds 0.6 lb/MMBTU. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 1.3. D(1)(a))
- 3.B.2 For Emission Point AA-004, the permittee shall only operate with emissions routed to and controlled by Emission Point AA-001, BTEX Eliminator No. 1. The BTEX Eliminator shall reduce the concentration of VOCs and HAPs in the gases by 95% weight. (Ref.: Title V Permit Issued on August 19, 2010, and modified herein)
- 3.B.3 For Emission Point AA-005, the permittee shall only operate with emissions routed to and controlled by Emission Point AB-002, BTEX Eliminator No. 2. The BTEX Eliminator shall reduce the concentration of VOCs and HAPs in the gases by 95% weight. (Ref.: Title V Permit Issued on August 19, 2010, and modified herein)
- 3.B.4 For Emission Points AA-006 through AA-009, AA-013, AA-014, AA-018, and AA-019, the permittee shall not have particulate emissions from fossil fuel burning installations of greater than 10 MMBTU/hr heat input that exceeds the emission rate as determine 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.5 For Emission Points AA-006 through AA-009, AA-013, AA-014, AA-018, and AA-019, the permittee shall only burn natural gas. (Ref: Title V Permit issued on August 19, 2010 and modified on November 30, 2012, and modified herein)
- 3.B.6 Emission Points AA-006 through AA-009, AA-013, AA-014, and AA-015, are subject to the National Emission Standards for Hazardous Air Pollutants for Stationary Combustion Engines, 40 CFR Part 63, Subpart ZZZZ.

Emission Points AA-006 through AA-009, AA-013, and AA-014 are new spark ignition 4-stroke lean-burn engines with a site rating greater than 500 HP and are located at an area source of HAPs. As such, these engines must meet the requirements of 40 CFR Part 63, Subpart ZZZZ by meeting the requirements of 40 CFR Part 60, Subpart JJJJ, for spark ignition engines. No further requirements apply for such engines under 40 CFR Part 63, Subpart ZZZZ.

Emission Point AA-015 is a new compression ignition 4-stroke lean-burn engine with a site rating greater than 500 HP and is located at an area source of HAPs. As such, this engine must meet the requirements of 40 CFR Part 63, Subpart ZZZZ by meeting the requirements of 40 CFR Part 60, Subpart IIII, for compression ignition engines. No further requirements apply for such engines under 40 CFR Part 63, Subpart ZZZZ.

(Ref.: 40 CFR 63.6580, 63.6585(a) and (c), 63.6590(c)(1))

- 3.B.7 Emission Points AA-006 through AA-009, AA-013, and AA-014, are subject to the New Source Performance Standard for Stationary Spark Ignition Internal Combustion Engines, 40 CFR 60, Subpart JJJJ. (Ref.: 40 CFR 60.4230(a)(4)(i))
- 3.B.8 For Emission Point Points AA-006 through AA-009, AA-013, and AA-014, Nitrogen Oxide (NO<sub>x</sub>) emissions from each emission point are limited to 2.0 grams per brake horsepower-hour (g/bhp-hr) or 160 ppmvd @ 15% O<sub>2</sub>; Carbon Monoxide (CO) emissions from each emission point are limited to 4.0 grams per brake horsepower-hour (g/bhp-hr) or 540 ppmvd @ 15% O<sub>2</sub>; and Volatile Organic Compounds (VOC) emissions from each emission point are limited to 1.0 grams per brake horsepower-hour (g/bhp-hr) or 86 ppmvd @ 15% O<sub>2</sub>. (Ref: 40 CFR 60.4233(e); and Table 1 to NSPS Subpart JJJJ)
- 3.B.9 For Emission Points AA-006 through AA-009, AA-013, and AA-014, the permittee shall only operate the compressor engines with emissions routed to and controlled by the oxidation catalyst. (Ref.: Title V Permit Issued on August 19, 2010 and modified on November 30, 2012)

- 3.B.10 For Emission Points AA-006 through AA-009, AA-013, and AA-014, the permittee shall limit the maximum rated total output for the six (6) compressor engines to 202,224,600 HP-hr per 12 month rolling total combined for all engines. (Ref.: Title V Permit Issued August 19, 2010 and modified November 30, 2012, and modified herein)
- 3.B.11 For Emission Points AA-006 through AA-009, the permittee shall limit Nitrogen Oxide (NOx) emissions to 12.72 pounds/hour and 27.86 tons/year from each engine, as long as the total aggregate from all six engines does not exceed 163.47 tons on a 12 month rolling basis. (Ref.: Title V Permit Issued August 19, 2010 and modified on November 30, 2012)
- 3.B.12 For Emission Points AA-006 through AA-009, the permittee shall limit Carbon Monoxide (CO) emissions to 9.86 pounds/hour and 21.59 tons/year from each engine, as long as the total aggregate from all six engines does not exceed 151.36 tons on a 12 month rolling basis. (Ref.: Title V Permit Issued August 19, 2010 and modified on November 30, 2012)
- 3.B.13 For Emission Points AA-013 and AA-014, the permittee shall limit Nitrogen Oxide (NOx) emissions to 11.88 pounds/hour and 26.01 tons/year from each engine, as long as the total aggregate from all six engines does not exceed 163.47 tons on a 12 month rolling basis. (Ref.: Title V Permit Issued August 19, 2010 and modified on November 30, 2012)
- 3.B.14 For Emission Points AA-013, and AA-014, the permittee shall limit Carbon Monoxide (CO) emissions to 14.84 pounds/hour and 32.51 tons/year from each engine, as long as the total aggregate from all six engines does not exceed 151.36 tons on a 12 month rolling basis. (Ref.: Title V Permit Issued August 19, 2010 and modified on November 30, 2012)
- 3.B.15 For Emission Point AA-015, the permittee is subject to New Source Performance Standard for Stationary Compressor Ignition Internal Combustion Engines in 40 CFR 60, Subpart III, and the General Provisions in Subpart A. (Ref.: 40 CFR 60.4200(a)(2)(i))
- 3.B.16 For Emission Point AA-015, Nitrogen Oxides plus Total Hydrocarbons (THC-NOx) emissions are limited to 4.0 grams per kilowatt-hour (g/kw-hr); Carbon Monoxide (CO) emissions are limited to 3.5 grams per kilowatt-hour (g/kw-hr); and Particulate Matter (PM) emissions are limited to 0.2 grams per kilowatt-hour (g/kw-hr). The permittee must operate and maintain the engine to achieve these emission standards over the entire life of the engine (Ref: 40 CFR 60.4205(b), 40 CFR 60.4202(a)(2), 40 CFR 60.4206, 40 CFR 60.4211(a)(3), and 40 CFR 89.112(a))
- 3.B.17 For Emission Point AA-015, the permittee shall use diesel fuel that meets the requirements of 40 CFR 80.510(b) for nonroad diesel fuel. The fuel shall have a maximum sulfur content of 15 ppm and a minimum cetane index of 40 or a maximum aromatic content of 35 percent volume. (Ref.: 40 CFR 60.4207(b))

- 3.B.18 For Emission Points AA-002, AA-003, AA-018 and AA-019, the permittee shall not discharge sulfur oxides from any fuel burning installation in which fuel is burned primarily to produce heat or power by indirect heat transfer in excess of 4.8 lb/MMBTU (measured as sulfur dioxide) heat input. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 1.4. A(1))
- 3.B.19 For Emission Points AA-018 and AA-019, the permittee is subject to New Source Performance Standards for Small Industrial-Commercial-Institutional Steam Generating Units in 40 CFR 60, Subpart Dc, and the General Provisions in Subpart A. (Ref.: 40 CFR 60.40c(a))

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 <sub>2</sub>	4.8 lbs/MMBTU

- 3.C.1 The maximum permissible emission of ash and/or particulate matter from fossil fuel burning installations of less than 10 million BTU per hour heat input shall not exceed 0.6 pounds per million BTU per hour heat input. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 1.3.D(1)(a).)
- 3.C.2 The maximum discharge of sulfur oxides from any fuel burning installation in which the fuel is burned primarily to produce heat or power by indirect heat transfer shall not exceed 4.8 pounds (measured as sulfur dioxide) per million BTU heat input. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 1.4.A(1).)

## SECTION 4. COMPLIANCE SCHEDULE

- 4.1 Unless otherwise specified herein, the permittee shall be in compliance with all requirements contained herein upon issuance of this permit.
- 4.2 Except as otherwise specified herein, the permittee shall submit to the Permit Board and to the Administrator of EPA Region IV a certification of compliance with permit terms and conditions, including emission limitations, standards, or work practices, by January 31 for the preceding calendar year. Each compliance certification shall include the following:
- (a) the identification of each term or condition of the permit that is the basis of the certification;
  - (b) the compliance status;
  - (c) whether compliance was continuous or intermittent;
  - (d) the method(s) used for determining the compliance status of the source, currently and over the applicable reporting period;
  - (e) such other facts as may be specified as pertinent in specific conditions elsewhere in this permit. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.C(5)(a), (c), & (d).)

## SECTION 5. MONITORING, RECORDKEEPING & REPORTING REQUIREMENTS

### A. General Monitoring, Recordkeeping and Reporting Requirements

- 5.A.1 The permittee shall install, maintain, and operate equipment and/or institute procedures as necessary to perform the monitoring and recordkeeping specified below.
- 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)	Applicable Requirement	Condition Number	Pollutant/Parameter Monitored	Monitoring/Recordkeeping Requirement
AA-004	11 Miss. Admin. Code Pt. 2, R. 2.2.B.(11)	5.B.1	Benzene	Must route emissions to Emission Point AA-001 at all times of operation and maintain records.
AA-005	11 Miss. Admin. Code Pt. 2, R. 2.2.B.(11)	5.B.2	Benzene	Must route emissions to Emission Point AB-002 at all times of operation and maintain records.
AA-006 through AA-009 AA-013 AA-014	11 Miss. Admin. Code Pt. 2, R. 2.2.B.(11)	5.B.3	Hours	Must monitor and record the monthly and 12-month rolling total horsepower-hours and hours of operation for each engine.
	11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)(a)(2)	5.B.4	Fuel	Must monitor and maintain records of the type and quantity of fuel used.
	40 CFR 60.4243(b)(2)(ii)	5.B.5	NO <sub>x</sub> CO VOC	Must keep a maintenance plan and records of conducted maintenance and must operate the engine in a manner consistent with good air pollution control practice for minimizing emissions.
	40 CFR 60.4243(b)(2)(ii); 40 CFR 60.4245(d); 11 Miss. Admin. Code Pt. 2, R. 2.6. B(3); and 11 Miss. Admin. Code Pt. 2, R. 2.2.B.(11))	5.B.6	NO <sub>x</sub> CO VOC	Must conduct subsequent performance tests every 8,760 hours after the initial performance test, or three (3) years, whichever comes first.
	[NSPS JJJJ] 40 CFR 60.4245(a)(1)-(4)	5.B.7	NO <sub>x</sub> CO VOC	Must maintain records of all notifications and supporting NSPS JJJJ compliance documentation; maintenance performed; and documentation the engines meet emission standards.
	11 Miss. Admin. Code Pt. 2, R. 2.2.B(11)	5.B.8	Catalyst Temperature (HAP)	Must maintain equipment to automatically shut down the engine if the catalyst inlet temperature exceeds 1350 °F
	11 Miss. Admin. Code Pt. 2, R. 2.2.B(11)	5.B.9	Catalyst Temperature (HAP)	Must perform appropriate corrective action after each engine shut down
AA-015	40 CFR 60.4209(a) and 11 Miss. Admin. Code Pt. 2, R. 2.2.B.(11)	5.B.10	THC/NO <sub>x</sub> CO PM	Must operate the non-resettable hour meter during all times that the engine is operating
	[NSPS IIII] 40 CFR 60.4211(a)(1)-(2))	5.B.11		Must operate and maintain the engine and control device according to the manufacturer's emission-related written instructions.
	[NSPS IIII] 40 CFR 60.4211(c)	5.B.12		Must comply with applicable emission standards and install and configure the engine according to the manufacturer's emission-related specifications
	11 Miss. Admin. Code Pt. 2, R. 2.2.B(11)	5.B.13		Must monitor and record the hours of operation and the reason for operation
	[NSPS IIII] 40 CFR 60.4211	5.B.14		Emergency Operational Requirements
	[NSPS IIII] 40 CFR 60.4211(f)(1)-(3)	5.B.15		
	[NSPS IIII] 40 CFR 60.4211(g)(3)	5.B.16		
	[NSPS IIII] 40 CFR 60.4214(b)	5.B.17		
AA-018 AA-019	[NSPS Dc] 40 CFR 60.48c(g)(2)	5.B.18	Fuel Content	Must keep records of monthly fuel combusted



- 5.B.1 For Emission Point AA-004, the permittee shall demonstrate compliance by operating with the source's emissions routed to and controlled by Emission Point AA-001 and by recording the calculated percent reduction efficiency of Emission Point AA-001. These records shall be kept in accordance with Condition 5.A.3. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.2.B.(11))
- 5.B.2 For Emission Point AA-005, the permittee shall demonstrate compliance by operating with the source's emissions routed to and controlled by Emission Point AB-002 and by recording the calculated percent reduction efficiency of Emission Point AB-002. These records shall be kept in accordance with Condition 5.A.3. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.2.B.(11))
- 5.B.3 For Emission Points AA-006 through AA-009, AA-013, and AA-014, the permittee shall record the monthly and the rolling, consecutive, 12-month rolling total horsepower-hours and hours of operation for each engine. These records shall be kept in accordance with Condition 5.A.3. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.2.B.(11))
- 5.B.4 For Emission Points AA-006 through AA-009, AA-013, and AA-014, the permittee shall monitor the type and quantity of fuel used. These records shall be maintained in accordance with paragraph 5.A.3. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)(a)(2))
- 5.B.5 For Emission Points AA-006 through AA-009, AA-013, and AA-014, the permittee shall keep a maintenance plan and records of conducted maintenance and must, to the extent practicable, maintain and operate each engine in a manner consistent with good air pollution control practice for minimizing emissions. (Ref.: 40 CFR 60.4243(b)(2)(ii))
- 5.B.6 For Emission Points AA-006 through AA-009, AA-013, and AA-014, the permittee shall demonstrate compliance with NO<sub>x</sub>, CO, and VOC limitations in grams/horsepower-hour or ppmvd @ 15% O<sub>2</sub> and in terms of pounds per hour, by conducting subsequent performance stack tests every 8,760 hours or three (3) years, whichever comes first, following the previous performance stack test, to demonstrate compliance. The permittee shall submit a copy of each performance test conducted within sixty (60) days of the test completion. The permittee shall conduct the required testing in accordance to 40 CFR 60.4244. The test results shall be give consistent with 11 Miss. Admin. Code Pt. 2, R. 2.6. B(3).

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 DEQ. Also, the permittee shall notify the DEQ in writing at least ten (10) days prior to the intended test date(s) so that an observer may be afforded the opportunity to witness the test. (Ref.: 40 CFR 60.4243(b)(2)(ii), 40 CFR 60.4245(d), and 11 Miss. Admin. Code Pt. 2, R. 2.2.B.(11))

- 5.B.7 For Emission Points AA-006 through AA-009, AA-013, and AA-014, the permittee must keep records of the following:

- (a) All notifications and supporting documentation submitted to comply with 40 CFR 60, Subpart JJJJ;
- (b) Maintenance performed on the engine;
- (c) If the stationary SI internal combustion engine is a certified engine, documentation from the manufacturer that the engine is certified to meet the emission standards and information as required in 40 CFR parts 90, 1048, 1054, and 1060, as applicable.
- (d) If the stationary SI internal combustion engine is not a certified engine or is a certified engine operating in a non-certified manner and subject to 40 CFR 60.4243(a)(2), documentation that the engine meets the emission standards.

(Ref. 40 CFR 60.4245(a)(1)-(4))

- 5.B.8 For Emission Points AA-006 through AA-009, AA-013, and AA-014, the permittee must maintain equipment to automatically shut down the engine if the catalyst inlet temperature exceeds 1350 °F. The permittee shall maintain proper catalyst operation and efficiency. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.2.B.(11))
- 5.B.9 For Emission Points AA-006 through AA-009, AA-013, and AA-014, the permittee shall perform appropriate corrective action after each engine shut down as required by Condition 5.B.8. A compliance demonstration similar to 40 CFR 63.6630(e) must be conducted within 7 days of the date the engines are restarted and the emissions must meet the limitations specified in this permit for these units. If the compliance test shows that the emissions exceed the limitations in this permit, the engine must again be shut down as soon as safely possible, and the engine may not operate, except for purposes of startup and testing, until the engine can demonstrate through testing that the emission do not exceed the limitations in this permit. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.2.B.(11))
- 5.B.10 For Emission Point AA-015, the permittee must operate the non-resettable hour meter during all times that the engine is operating. (Ref.: 40 CFR 60.4209(a) and 11 Miss. Admin. Code Pt. 2, R. 2.2.B.(11))
- 5.B.11 For Emission Point AA-015, the permittee must operate and maintain the stationary CI internal combustion engine and control device according to the manufacturer's emission-related written instructions. The permittee may change only those emission-related settings that are permitted by the manufacturer. The permittee must also meet the requirements of 40 CFR parts 89, 94 and/or 1068, as applicable. (Ref.: 40 CFR 60.4211(a)(1) and (2))
- 5.B.12 For Emission Point AA-015, the permittee must comply with the emission standards specified in 40 CFR 60.4205(b) by purchasing an engine certified to the emission standards in 40 CFR 60.4205(b), as applicable, for the same model year and maximum engine power. The engine must be installed and configured according to the manufacturer's emission-

related specifications. (Ref.: 40 CFR 60.4211(c))

- 5.B.13 For Emission Point AA-015, the permittee shall monitor and record the hours of operation and the reason the generator was in operation during that time. The records shall be kept in accordance with Condition 5.A.3. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.2.B.(11))
- 5.B.14 For Emission Point AA-015, the permittee shall operate and maintain the emergency generator according to the manufacturer's written instructions and procedures. In addition, the only settings that will be changed are those permitted by the manufacturer. The permittee shall comply with the emission standards by purchasing an engine certified to the emission standards for the same model year and maximum engine power. The engine shall be installed and configured according to the manufacturer's specifications. Any operation of the generator other than emergency operation, maintenance, and testing, or operation in non-emergency situations for 50 hours per year is prohibited. (Ref.: 40 CFR 60.4211)
- 5.B.15 For Emission Point AA-015, the permittee must operate the emergency stationary ICE according to the requirements in 40 CFR 60.4211(f)(1) through (3). In order for the engine to be considered an emergency stationary ICE, any operation other than emergency operation, maintenance and testing, emergency demand response, and operation in non-emergency situations for 50 hours per year, as described below, is prohibited. If the engine is not operated according to these requirements, the engine will not be considered an emergency engine under Subpart IIII and must meet all requirements for non-emergency engines.
- (a) There is no time limit on the use of emergency stationary ICE in emergency situations.
  - (b) The engine may be operated for maintenance checks and readiness testing, provided that the tests are recommended by federal, state or local government, the manufacturer, the vendor, the regional transmission organization or equivalent balancing authority and transmission operator, or the insurance company associated with the engine. The permittee may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the permittee maintains records indicating that federal, state, or local standards require maintenance and testing of engine beyond 100 hours per calendar year.
  - (c) The engine may be operated for up to 50 hours per calendar year in non-emergency situations. The 50 hours of operation in non-emergency situations are counted as part of the 100 hours per calendar year for maintenance and testing.

(Ref.: 40 CFR 60.4211(f)(1) through (3))

- 5.B.16 For Emission Point AA-015, if the permittee does not install, configure, operate, and maintain the emergency engine and control device according to the manufacturer's emission-related written instructions, or the permittee changes emission-related settings in a way that

is not permitted by the manufacturer, the permittee must keep a maintenance plan and records of conducted maintenance and must, to the extent practicable, maintain and operate the engine in a manner consistent with good air pollution control practice for minimizing emissions. In addition, the permittee must conduct an initial performance test to demonstrate compliance with the applicable emission standards within 1 year of startup, or within 1 year after an engine and control device is no longer installed, configured, operated, and maintained in accordance with the manufacturer's emission-related written instructions, or within 1 year after emission-related settings are changed in a way that is not permitted by the manufacturer. The permittee must conduct subsequent performance testing every 8,760 hours of engine operation or 3 years, whichever comes first, thereafter to demonstrate compliance with the applicable emission standards. (Ref.: 40 CFR 60.4211(g)(3))

- 5.B.17 For Emission Point AA-015, if the emergency engine does not meet the standards applicable to non-emergency engines in the applicable model year, the permittee must keep records of the operation of the engine in emergency and non-emergency service that are recorded through the non-resettable hour meter. The permittee must record the time of operation of the engine and the reason the engine was in operation during that time. (Ref.: 40 CFR 60.4214(b))
- 5.B.18 For Emission Points AA-018 and AA-019, the permittee shall record and maintain records of the amount of each fuel combusted during each operating month. (Ref.: 40 CFR 60.48c(g)(2))

C. Specific Reporting Requirements

Emission Point(s)	Applicable Requirement	Condition Number	Pollutant/Parameter Monitored	Reporting Requirement
AA-004 AA-005	11 Miss. Admin. Code Pt. 2, R. 2.2.B.(11)	5.C.1	Percent Efficiency	Submit reports of percent efficiency monitoring records.
AA-006 through AA-009	11 Miss. Admin. Code Pt. 2, R. 2.2.B.(11)	5.C.2	Hours	Submit reports of monthly and rolling, consecutive 12-month hours of operations
AA-013 AA-014 AA-015	11 Miss. Admin. Code Pt. 2, R. 2.2.B.(11)	5.C.3	Fuel Content	Submit report of fuel monitoring records
AA-018 AA-019	40 CFR 60.48c(a)(1)	5.C.4	Initial Notification	Submit initial notifications
	40 CFR 60.48c(j)	5.C.5	Fuel Usage	Submit reports of fuel monitoring records

- 5.C.1 For Emission Points AA-004 and AA-005, the permittee shall submit percent efficiency reports in accordance with Condition 5.A.4. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.2.B.(11))
- 5.C.2 For Emission Points AA-006 through AA-009, AA-013, AA-014, and AA-015, the permittee shall submit reports of monthly and rolling, consecutive 12-month hours of operations in accordance with Condition 5.A.4. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.2.B.(11))
- 5.C.3 For Emission Points AA-006 through AA-009, AA-013, AA-014, and AA-015, the permittee shall submit fuel usage reports summarizing type and quantity of fuel used in accordance with Condition 5.A.4. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.2.B.(11))
- 5.C.4 For Emission Points AA-018 and AA-019, the permittee shall submit notification of the date of construction or reconstruction and actual startup, as provided by 40 CFR 60.7. This notification shall include the design heat input capacity of the affected facility and identification of fuels to be combusted in the affected facility. (Ref.: 40 CFR 60.48c(a)(1))
- 5.C.5 For Emission Points AA-018 and AA-019, the reporting period for the reports required under NSPS Subpart Dc is each six-month period. All reports shall be submitted to the Administrator and shall be postmarked by the 30th day following the end of the reporting period. (Ref.: 40 CFR 60.48c(j))

## 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 <sub>x</sub>	Nitrogen Oxides
NSPS	New Source Performance Standards, 40 CFR 60
O&M	Operation and Maintenance
PM	Particulate Matter
PM <sub>10</sub>	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 <sub>2</sub>	Sulfur Dioxide
TPY	Tons per Year
TRS	Total Reduced Sulfur
VEE	Visible Emissions Evaluation
VHAP	Volatile Hazardous Air Pollutant
VOC	Volatile Organic Compound

## APPENDIX B

### LIST OF REGULATIONS REFERENCED IN PERMIT

The full text of the regulations referenced in this permit may be found on-line at <http://www.deq.state.us.us> and <http://ecfr.gpoaccess.gov>, or the Mississippi Department of Environmental Quality (MDEQ) will provide a copy upon request. A list of regulations referenced in this permit is shown below:

11 Miss. Admin. Code Pt. 2, Ch. 1, Mississippi Air Emission Regulations for the Prevention, Abatement, and Control of Air Contaminants (Amended December 14, 2011)

11 Miss. Admin. Code Pt. 2, Ch. 6, Mississippi Air Emissions Operating Permit Regulations for the Purposes of Title V of the Federal Air Emissions Operating Permit Regulations for the Purpose of Title V of the Federal Clean Air Act (Amended December 14, 2011)

40 CFR Part 82 - Title VI of the Clean Air Act (Stratospheric Ozone Protection)

40 CFR 63, Subpart A – General Provisions

40 CFR Part 63, Subpart ZZZZ - National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines

40 CFR 60, Subpart A – General Provisions

40 CFR 60, Subpart Dc - Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units

40 CFR 60, Subpart IIII – New Source Performance Standards for Stationary Compression Ignition Internal Combustion Engines

40 CFR 60, Subpart JJJJ – New Source Performance Standards for Stationary Spark Ignition Internal Combustion Engines