

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

TO OPERATE AIR EMISSIONS EQUIPMENT

THIS CERTIFIES THAT

Leaf River Energy Center, LLC
County Road 5
Taylorsville, Mississippi
Smith 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: MAR 28 2019

Effective Date: As specified herein.

MISSISSIPPI ENVIRONMENTAL QUALITY PERMIT BOARD



AUTHORIZED SIGNATURE

MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY

Expires: FEB 29 2024

Permit No.: 2500-00085

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SECTION 1. GENERAL CONDITIONS

- 1.1 The permittee must comply with all conditions of this permit. Any permit noncompliance constitutes a violation of the Federal Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.A(6)(a).)
- 1.2 It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.A(6)(b).)
- 1.3 This permit and/or any part thereof may be modified, revoked, reopened, and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.A(6)(c).)
- 1.4 (a) This permit shall be reopened and revised under any of the following circumstances:
 - (1) Additional applicable requirements under the Federal Act become applicable to a major Title V source with a remaining permit term of 3 or more years. Such a reopening shall be completed no later than 18 months after promulgation of the applicable requirement. No such reopening is required if the effective date of the requirement is later than the date on which the permit is due to expire, unless the original permit or any of its terms and conditions has been extended.
 - (2) Additional requirements (including excess emissions requirements) become applicable to an affected source under the acid rain program. Upon approval by the Administrator, excess emissions offset plans shall be deemed to be incorporated into the permit.
 - (3) The Permit Board or EPA determines that the permit contains a material mistake or that inaccurate statements were made in establishing the emission standards or other terms or conditions of the permit.
 - (4) The Administrator or the Permit Board determines that the permit must be revised or revoked to assure compliance with the applicable requirements.
- (b) Proceedings to reopen and issue this permit shall follow the same procedures as apply to initial permit issuance and shall only affect those parts of the permit for which cause to reopen exists. Such reopening shall be made as expeditiously as practicable.
- (c) Reopenings shall not be initiated before a notice of such intent is provided to the

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

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

- 1.5 The permittee shall furnish to the DEQ within a reasonable time any information the DEQ may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to the DEQ copies of records required to be kept by the permittee or, for information to be confidential, the permittee shall furnish such records to DEQ along with a claim of confidentiality. The permittee may furnish such records directly to the Administrator along with a claim of confidentiality. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.A(6)(e).)
- 1.6 This permit does not convey any property rights of any sort, or any exclusive privilege. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.A(6)(d).)
- 1.7 The provisions of this permit are severable. If any provision of this permit, or the application of any provision of this permit to any circumstances, is challenged or held invalid, the validity of the remaining permit provisions and/or portions thereof or their application to other persons or sets of circumstances, shall not be affected thereby. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.A(5).)
- 1.8 The permittee shall pay to the DEQ an annual permit fee. The amount of fee shall be determined each year based on the provisions of regulated pollutants for fee purposes and the fee schedule specified in the Commission on Environmental Quality's order which shall be issued in accordance with the procedure outlined in Regulation 11 Miss. Admin. Code Pt. 2, Ch. 6.)
 - (a) For purposes of fee assessment and collection, the permittee shall elect for actual or allowable emissions to be used in determining the annual quantity of emissions unless the Commission determines by order that the method chosen by the applicant for calculating actual emissions fails to reasonably represent actual emissions. Actual emissions shall be calculated using emission monitoring data or direct emissions measurements for the pollutant(s); mass balance calculations such as the amounts of the pollutant(s) entering and leaving process equipment and where mass balance calculations can be supported by direct measurement of process parameters, such direct measurement data shall be supplied; published emission factors such as those relating release quantities to throughput or equipment type (e.g., air emission factors); or other approaches such as engineering calculations (e.g., estimating volatilization using published mathematical formulas) or best engineering judgments where such judgments are derived from process and/or emission data which supports the estimates of maximum actual emission. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.6.A(2).)

- (b) If the Commission determines that there is not sufficient information available on a facility's emissions, the determination of the fee shall be based upon the permitted allowable emissions until such time as an adequate determination of actual emissions is made. Such determination may be made anytime within one year of the submittal of actual emissions data by the permittee. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.6.A(2).) If at any time within the year the Commission determines that the information submitted by the permittee on actual emissions is insufficient or incorrect, the permittee will be notified of the deficiencies and the adjusted fee schedule. Past due fees from the adjusted fee schedule will be paid on the next scheduled quarterly payment time. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.6.D(2).)
 - (c) The fee shall be due September 1 of each year. By July 1 of each year the permittee shall submit an inventory of emissions for the previous year on which the fee is to be assessed. The permittee may elect a quarterly payment method of four (4) equal payments; notification of the election of quarterly payments must be made to the DEQ by the first payment date of September 1. The permittee shall be liable for penalty as prescribed by State Law for failure to pay the fee or quarterly portion thereof by the date due. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.6.D.)
 - (d) If in disagreement with the calculation or applicability of the Title V permit fee, the permittee may petition the Commission in writing for a hearing in accordance with State Law. Any disputed portion of the fee for which a hearing has been requested will not incur any penalty or interest from and after the receipt by the Commission of the hearing petition. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.6.C.)
- 1.9 No permit revision shall be required under any approved economic incentives, marketable permits, emissions trading and other similar programs or processes for changes that are provided for in this permit. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.A(8).)
- 1.10 Any document required by this permit to be submitted to the DEQ shall contain a certification by a responsible official that states that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.2.E.)
- 1.11 The permittee shall allow the DEQ, or an authorized representative, upon the presentation of credentials and other documents as may be required by law, to perform the following:
- (a) enter upon the permittee's premises where a Title V source is located or emissions-related activity is conducted, or where records must be kept under the conditions of this permit;
 - (b) have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;

- (c) inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit; and
 - (d) as authorized by the Federal Act, sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with the permit or applicable requirements. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.C(2).)
- 1.12 Except as otherwise specified or limited herein, the permittee shall have necessary sampling ports and ease of accessibility for any new air pollution control equipment, obtained after May 8, 1970, and vented to the atmosphere. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 1.3.I(1).)
- 1.13 Except as otherwise specified or limited herein, the permittee shall provide the necessary sampling ports and ease of accessibility when deemed necessary by the Permit Board for air pollution control equipment that was in existence prior to May 8, 1970. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 1.3.I(2).)
- 1.14 Compliance with the conditions of this permit shall be deemed compliance with any applicable requirements as of the date of permit issuance where such applicable requirements are included and are specifically identified in the permit or where the permit contains a determination, or summary thereof, by the Permit Board that requirements specifically identified previously are not applicable to the source. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.F(1).)
- 1.15 Nothing in this permit shall alter or affect the following:
- (a) the provisions of Section 303 of the Federal Act (emergency orders), including the authority of the Administrator under that section;
 - (b) the liability of an owner or operator of a source for any violation of applicable requirements prior to or at the time of permit issuance;
 - (c) the applicable requirements of the acid rain program, consistent with Section 408(a) of the Federal Act.
 - (d) the ability of EPA to obtain information from a source pursuant to Section 114 of the Federal Act. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.F(2).)
- 1.16 The permittee shall comply with the requirement to register a Risk Management Plan if permittee's facility is required pursuant to Section 112(r) of the Act to register such a plan. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.H.)
- 1.17 Expiration of this permit terminates the permittee's right to operate unless a timely and complete renewal application has been submitted. A timely application is one which is

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

- 1.18 The permittee is authorized to make changes within their facility without requiring a permit revision (ref: Section 502(b)(10) of the Act) if:
- (a) the changes are not modifications under any provision of Title I of the Act;
 - (b) the changes do not exceed the emissions allowable under this permit;
 - (c) the permittee provides the Administrator and the Department with written notification in advance of the proposed changes (at least seven (7) days, or such other time frame as provided in other regulations for emergencies) and the notification includes:
 - (1) a brief description of the change(s),
 - (2) the date on which the change will occur,
 - (3) any change in emissions, and
 - (4) any permit term or condition that is no longer applicable as a result of the change;
 - (d) the permit shield shall not apply to any Section 502(b)(10) change. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.4.F(1).)
- 1.19 Should the Executive Director of the Mississippi Department of Environmental Quality declare an Air Pollution Emergency Episode, the permittee will be required to operate in accordance with the permittee's previously approved Emissions Reduction Schedule or, in the absence of an approved schedule, with the appropriate requirements specified in 11 Miss. Admin. Code Pt. 2, Ch. 3., "Regulations for the Prevention of Air Pollution Emergency Episodes" for the level of emergency declared. (Ref.: 11 Miss. Admin. Code Pt. 2, Ch. 3.)
- 1.20 Except as otherwise provided herein, a modification of the facility may require a Permit to Construct in accordance with the provisions of Regulations 11 Miss. Admin. Code Pt. 2, Ch. 2., "Permit Regulations for the Construction and/or Operation of Air Emissions Equipment", and may require modification of this permit in accordance with Regulations 11 Miss. Admin. Code Pt. 2, Ch. 6., "Air Emissions Operating Permit Regulations for the

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

- (a) routine maintenance, repair, and replacement;
- (b) use of an alternative fuel or raw material by reason of an order under Sections 2 (a) and (b) of the Federal Energy Supply and Environmental Coordination Act of 1974 (or any superseding legislation) or by reason of a natural gas curtailment plan pursuant to the Federal Power Act;
- (c) use of an alternative fuel by reason of an order or rule under Section 125 of the Federal Act;
- (d) use of an alternative fuel or raw material by a stationary source which:
 - (1) the source was capable of accommodating before January 6, 1975, unless such change would be prohibited under any federally enforceable permit condition which was established after January 6, 1975, pursuant to 40 CFR 52.21 or under regulations approved pursuant to 40 CFR 51.166; or
 - (2) the source is approved to use under any permit issued under 40 CFR 52.21 or under regulations approved pursuant to 40 CFR 51.166;
- (e) an increase in the hours of operation or in the production rate unless such change would be prohibited under any federally enforceable permit condition which was established after January 6, 1975, pursuant to 40 CFR 52.21 or under regulations approved pursuant to 40 CFR Subpart I or 40 CFR 51.166; or
- (f) any change in ownership of the stationary source."

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

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

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

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

- (a) Open burning without a forced-draft air system must not occur within 500 yards of an occupied dwelling.
- (b) Open burning utilizing a forced-draft air system on all fires to improve the combustion rate and reduce smoke may be done within 500 yards of but not within 50 yards of an occupied dwelling.
- (c) Burning must not occur within 500 yards of commercial airport property, private air fields, or marked off-runway aircraft approach corridors unless written approval to conduct burning is secured from the proper airport authority, owner or operator. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 1.3.G.)

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

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

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

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

(a) Upsets

- (1) For an upset defined in 11 Miss. Admin. Code Pt. 2, R. 1.2., 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 source 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.)
- (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.

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-001	4735 HP Caterpillar G3616 four stroke lean burn (4SLB) spark ignition (SI) natural gas-fired compressor engine with emissions controlled by an oxidation catalyst (Facility ID No. C-301)
AA-002	4735 HP Caterpillar G3616 4SLB SI natural gas-fired compressor engine with emissions controlled by an oxidation catalyst (Facility ID No. C-302)
AA-003	4735 HP Caterpillar G3616 4SLB SI natural gas-fired compressor engine with emissions controlled by an oxidation catalyst (Facility ID No. C-303)
AA-004	4735 HP Caterpillar G3616 4SLB SI natural gas-fired compressor engine with emissions controlled by an oxidation catalyst (Facility ID No. C-304)
AA-005	5001 HP Caterpillar G3616 4SLB SI natural gas-fired compressor engine with emissions controlled by an oxidation catalyst (Facility ID No. C-305)
AA-006	5001 HP Caterpillar G3616 4SLB SI natural gas-fired compressor engine with emissions controlled by an oxidation catalyst (Facility ID No. C-306)
AA-007	5001 HP Caterpillar G3616 4SLB SI natural gas-fired compressor engine with emissions controlled by an oxidation catalyst (Facility ID No. C-306)
AA-008	507 HP Caterpillar C9 compression ignition (CI) diesel-fired emergency generator engine (G-1050)
AA-009	2.5 MMBtu/hr natural gas-fired Glycol Reboiler (M-701)
AA-010	2.5 MMBtu/hr natural gas-fired Glycol Reboiler (M-702)
AA-011	750 MMSCFD Glycol Dehydration Unit Still Vents (M-701SV)
AA-012	750 MMSCFD Glycol Dehydration Unit Still Vents (M-702SV)
AA-013	Thermal Oxidizer (B-701) that controls emissions from glycol reboiler (M-701)
AA-014	Thermal Oxidizer (B-702) that controls emissions from glycol reboiler (M-702)
AA-015	10.0 MMBtu/hr natural gas-fired Line Heater (H-501)
AA-016	10.0 MMBtu/hr natural gas-fired Line Heater (H-502)
AB-026	2328 HP Caterpillar G3516C 4SLB SI natural gas-fired emergency generator engine (Facility ID No. G-2050)
AA-039	40 HP Olympian G25LTA 4SLB SI natural gas-fired emergency generator engine (Facility ID No. G-1070)
AA-040	40 HP Olympian G25LTA 4SLB SI natural gas-fired emergency generator engine (Facility ID No. G-1071)
AA-041	40 HP Olympian G25LTA 4SLB SI natural gas-fired emergency generator engine (Facility ID No. G-1072)

Emission Point	Description
AA-042	40 HP Olympian G25LTA 4SLB SI natural gas-fired emergency generator engine (Facility ID No. G-1073)
AA-043	Condensate/Slop Water Truck Loading Emissions (T1860-LDG)
AA-044	Lube Oil Truck Loading Emissions
AT-000	Facility-Wide Storage Tanks
FUG	Facility-Wide Fugitive Emissions

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 Condition 3.A.1. This shall not apply to vision obscuration caused by uncombined water droplets. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 1.3.B.)

B. Emission Point Specific Emission Limitations & Standards

Emission Point(s)	Applicable Requirement	Condition Number(s)	Pollutant/Parameter	Limit/Standard
AA-001 through AA-007 and AA-015, AA-016, and AB-026	11 Miss. Admin. Code Pt. 2, R. 1.3. D(1)(b)	3.B.1	PM	$E=0.8808 * I^{-0.1667}$
AA-008, AA-009, AA-010, AA-013, AA-014, AA-018, and AA-039 through AA-042	11 Miss. Admin. Code Pt. 2, R. 1.3. D(1)(a)	3.B.2	PM	0.6 lbs/MMBTUH
AA-009, AA-010, AA-015 and AA-016	11 Miss. Admin. Code Pt. 2, R. 1.3. D(1)(a)	3.B.3	SO ₂	4.8 lbs/MMBTU
Facility-Wide	11 Miss. Admin. Code Pt. 2, R. 1.4.B(2)	3.B.4	H ₂ S	One (1) grain per 100 standard cubic feet
AA-001 through AA-007, AA-039 through AA-042, and AB-026	11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)(a)(2)	3.B.5	Fuel	Combust pipeline quality natural gas
AA-001 through AA-008, AA-039 through AA-042, and AB-026	40 CFR 63, Subpart ZZZZ (National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines) 40 CFR 63.6580, 63.6585(a) and (c), 63.6590(a)(2)(iii), and 63.6590(c)(1), Subpart ZZZZ	3.B.6	HAPs	Applicability
AA-001 through AA-007	11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)(a)(2)	3.B.7	Control Device	Operational Requirement
AA-001 through AA-007, AA-039 through	40 CFR 60, Subpart JJJJ (Standards of Performance for Stationary Spark Ignition Internal Combustion Engines)	3.B.8	NO _x , CO, and VOC	Applicability

Emission Point(s)	Applicable Requirement	Condition Number(s)	Pollutant/Parameter	Limit/Standard
AA-042, and AB-026	40 CFR 60.4230(a)(4)(i) and (iv), Subpart JJJJ			
AA-001 through AA-004 and AB-026	40 CFR 60.4233(e), 60.4234, and Table 1 to 40 CFR 60, Subpart JJJJ	3.B.9		2.0 g/bhp-hr NO _x or 160 ppmvd @ 15% O ₂ per emission source, 4.0 g/bhp-hr CO or 540 ppmvd @ 15% O ₂ per emission source, 1.0 g/bhp-hr VOC or 86 ppmvd @ 15% O ₂ per emission source
AA-005 through AA-007	40 CFR 60.4233(e), 60.4234, and Table 1 to 40 CFR 60, Subpart JJJJ	3.B.10		1.0 g/bhp-hr NO _x or 82 ppmvd @ 15% O ₂ per emission source, 2.0 g/bhp-hr CO or 270 ppmvd @ 15% O ₂ per emission source, 0.7 g/bhp-hr VOC or 60 ppmvd @ 15% O ₂ per emission source
AA-008	40 CFR 60, Subpart IIII (Standards of Performance for Stationary Compression Ignition Internal Combustion Engines)	3.B.11	NMHC + NO _x , CO, and PM	Applicability
	40 CFR 60.4200(2)(i), Subpart IIII 40 CFR 60.4205(b), 60.4202(a)(2), 60.4206, 60.4211(a)(3), Subpart IIII, and Tier 3 of Table 1 of 40 CFR 89.112(a)	3.B.12		4.0 g/kW-hr NMHC + NO _x , 3.5 g/kW-hr CO, 0.2 g/kW-hr PM
	40 CFR 60.4207(b), Subpart IIII and 40 CFR 80.510(b)	3.B.13	Fuel	15 ppm sulfur content and a min. cetane index of 40 or a max. aromatic content of 35 % volume
AA-011 and AA-012	Air Construction Permit issued July 1, 2009 and modified August 29, 2014	3.B.14	Hours	≤ 7,008 hours/year per emission source and ≤ 1,500 MMscf/day combined gas throughput
AA-013 and AA-014	Air Construction Permit issued July 1, 2009 and modified August 29, 2014 and 11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)(a)(2)	3.B.15	Control Device	Operational Requirement
	11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)(a)(2)	3.B.16	Temp.	≥ 1,600 °F combust chamber temperature
AA-015 and AA-016	40 CFR 60, Subpart Dc (Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units)	3.B.17	SO ₂	Applicability
	40 CFR 60.40c(a), Subpart Dc 40 CFR 60.42c(d) and (i), Subpart Dc	3.B.18	Fuel	≤ 0.5% by weight
AA-039 through AA-042	40 CFR 60.4233(d) and Table 1 to 40 CFR 60, Subpart JJJJ	3.B.19	CO and NO _x + HC	387 g/bhp-hr CO per emission source and 10 g/bhp-hr NO _x + HC per emission source

Emission Point(s)	Applicable Requirement	Condition Number(s)	Pollutant/Parameter	Limit/Standard
AA-008, AA-039 through AA-042, and AB-026	40 CFR 60.4209(a), Subpart III and 40 CFR 60.4237(a) and (c), Subpart JJJJ	3.B.20	Hour Meter	Operational Requirement
Facility-Wide	11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)(a)(2)	3.B.21	CO, NOx, and VOC	≤ 249 tpy per pollutant
	11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)(a)(2)	3.B.22	Formaldehyde	≤ 9.9 tpy
	11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)(a)(2)	3.B.23	Total HAPs	≤ 24.9 tpy

3.B.1 For Emission Points AA-001 through AA-007 and AA-015, AA-016, and AB-026, 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 determined by the relationship:

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

where E is the emission rate in pounds per million BTU per hour heat input and I is the heat input in millions of BTU per hour.

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

3.B.2 For Emission Points AA-008, AA-009, AA-010, AA-013, AA-014, AA-018, and AA-039 through AA-042, 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.3 For Emission Points AA-009, AA-010, AA-015, and AA-016, the permittee shall not exceed a maximum discharge of sulfur oxides 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.4 For the entire facility, the permittee shall not cause or permit the emissions for any gas stream which contains hydrogen sulfide in excess of one (1) grain per 100 standard cubic feet (gr/100 scf). Gas streams containing hydrogen sulfide in excess of one (1) grain per 100 standard cubic feet shall be incinerated of not less than 1600 Degrees Fahrenheit for a

period of not less than 0.5 seconds, or processed in such a manner which is equivalent to or more effective for the removal of hydrogen sulfide.

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

- 3.B.5 For Emission Points AA-001 through AA-007, AA-039 through AA-042, and AB-026, the permittee shall combust pipeline quality natural gas only.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)(a)(2))

- 3.B.6 For Emission Points AA-001 through AA-008, AA-039 through AA-042, and AB-026, the permittee is subject to the National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (RICE), 40 CFR 63, Subpart ZZZZ.

Emission Points AA-001 through AA-007 are new non-emergency spark ignition stationary RICE with a site rating greater than 500 brake HP located at an area source of HAP emissions. As such, each engine must meet the requirements of 40 CFR 63, Subpart ZZZZ by meeting the requirements of 40 CFR 60, Subpart JJJJ, for spark ignition engines. No further requirements apply for such engines under 40 CFR 63, Subpart ZZZZ or the General Provisions in Subpart A.

Emission Point AA-008 is a new emergency compression ignition stationary RICE with a site rating greater than 500 brake HP located at an area source of HAP emissions. As such, the emergency engine must meet the requirements of 40 CFR 63, Subpart ZZZZ by meeting the requirements of 40 CFR 60, Subpart IIII, for compression ignition engines. No further requirements apply for such engines under 40 CFR 63, Subpart ZZZZ or the General Provisions in Subpart A.

Emission Point AB-026 is a new emergency spark ignition stationary RICE with a site rating greater than 500 brake HP located at an area source of HAP emissions. As such, the emergency engine must meet the requirements of 40 CFR 63, Subpart ZZZZ by meeting the requirements of 40 CFR 60, Subpart JJJJ, for spark ignition engines. No further requirements apply for such engines under 40 CFR 63, Subpart ZZZZ or the General Provisions in Subpart A.

Emission Points AA-039 through AA-042 are new emergency spark ignition stationary RICE with a site rating less than 500 brake HP located at an area source of HAP emissions. As such, each emergency engine must meet the requirements of 40 CFR 63, Subpart ZZZZ by meeting the requirements of 40 CFR 60, Subpart JJJJ, for spark ignition engines. No further requirements apply for such engines under 40 CFR 63, Subpart ZZZZ or the General Provisions in Subpart A.

(Ref.: 40 CFR 63.6580, 63.6585(a) and (c), 63.6590(a)(2)(iii), and 63.6590(c)(1), Subpart ZZZZ)

- 3.B.7 For Emission Points AA-001 and AA-007, the permittee shall only operate the engines when the emissions are controlled by an oxidation catalyst.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)(a)(2))

- 3.B.8 For Emission Points AA-001 through AA-007, AA-039 through AA-042, and AB-026, the permittee is subject to the Standards of Performance for Stationary Spark Ignition Internal Combustion Engines, 40 CFR 60, Subpart JJJJ, and the General Provisions in Subpart A.

(Ref.: 40 CFR 60.4233(a)(4)(i) and (iv), Subpart JJJJ)

- 3.B.9 For Emission Points AA-001 through AA-004 and AB-026, Nitrogen Oxide (NO_x) emissions are limited to 2.0 grams per horsepower-hour (g/bhp-hr) or 160 ppmvd @ 15% O₂ from each source, Carbon Monoxide (CO) emissions are limited to 4.0 g/bhp-hr or 540 ppmvd @ 15% O₂ from each source, and Volatile Organic Compound (VOC) emissions are limited to 1.0 g/bhp-hr or 86 ppmvd @ 15% O₂ from each source. Each engine must be operated and maintained such that the engine achieves these emission standards over the entire life of the engine.

(Ref: 40 CFR 60.4233(e), 60.4234, and Table 1 of 40 CFR 60, Subpart JJJJ)

- 3.B.10 For Emission Points AA-005 through AA-007, Nitrogen Oxide (NO_x) emissions are limited to 1.0 grams per horsepower-hour (g/bhp-hr) or 82 ppmvd @ 15% O₂ from each source, Carbon Monoxide (CO) emissions are limited to 2.0 g/bhp-hr or 270 ppmvd @ 15% O₂ from each source, and Volatile Organic Compound (VOC) emissions are limited to 0.7 g/bhp-hr or 60 ppmvd @ 15% O₂ from each source. Each engine must be operated and maintained such that the engine achieves these emission standards over the entire life of the engine.

(Ref: 40 CFR 60.4233(e), 60.4234, and Table 1 of 40 CFR 60, Subpart JJJJ)

- 3.B.11 For Emission Point AA-008, the permittee is subject to the Standards of Performance Standard for Stationary Compressor Ignition Internal Combustion Engines, 40 CFR 60, Subpart IIII, and the General Provisions in Subpart A.

(Ref.: 40 CFR 60.4200(2)(i), Subpart IIII)

- 3.B.12 For Emission Point AA-008, Nitrogen Oxides plus Total Non-Methane Hydrocarbons (NMHC + NO_x) emissions are limited to 4.0 grams per kilowatt-hour (g/kW-hr); Carbon Monoxide (CO) emissions are limited to 3.5 g/kW-hr; and Particulate Matter (PM) emissions are limited to 0.2 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), 60.4202(a)(2), 60.4206, 60.4211(a)(3), Subpart III and Tier 3 of Table 1 of 40 CFR 89.112(a))

- 3.B.13 For Emission Point AA-008, the permittee shall use diesel fuel that meets the requirements of 40 CFR 80.510(b) for non-road 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), Subpart III and 40 CFR 80.510(b))

- 3.B.14 For Emission Points AA-011 and AA-012, the permittee shall limit the annual hours of operation of each source to 7,008 hours per year or less and shall limit the maximum daily gas throughput through the combined sources to a maximum of 1,500 million standard cubic feet per day for both glycol dehydrator unit still vents.

(Ref.: Air Construction Permit issued July 1, 2009 and modified August 29, 2014)

- 3.B.15 For Emission Points AA-009 and AA-010, the permittee shall only operate the glycol reboilers with emissions controlled by the thermal oxidizers (Emission Points AA-013 and AA-014).

(Ref.: Air Construction Permit issued July 1, 2009 and modified August 29, 2014 and 11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)(a)(2))

- 3.B.16 For Emission Points AA-013 and AA-014, the permittee shall operate each thermal oxidizer with a minimal combustion chamber temperature of 1,600 degrees Fahrenheit at all times.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)(a)(2))

- 3.B.17 For Emission Points AA-015 and AA-016, the permittee is subject to Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units, 40 CFR 60, Subpart Dc.

(Ref.: 40 CFR 60.40c(a), Subpart Dc)

- 3.B.18 For Emission Points AA-015 and AA-016, the permittee shall not burn any fuel oil with a sulfur content in excess of 0.5 weight percent. The fuel oil sulfur limit applies at all times, including startup, shutdown, and malfunction.

(Ref. 40 CFR 60.42c(d) and (i), Subpart Dc)

3.B.19 For Emission Points AA-039 through AA-042, Carbon Monoxide (CO) emissions are limited to 387 g/bhp-hr from each source and Nitrogen Oxides plus Hydrocarbon (NOx + HC) emissions are limited to 10 g/bhp-hr from each source.

(Ref.: 40 CFR 60.4233(d) and Table 1 to Subpart JJJJ)

3.B.20 For Emission Points AA-008, AA-039 through AA-042, and AB-026, the permittee must install and operate a non-resettable hour meter on each emergency engine.

(Ref.: 40 CFR 60.4209(a), Subpart IIII, and 40 CFR 60.4237(a) and (c), Subpart JJJJ)

3.B.21 For the entire facility, the permittee shall limit facility-wide carbon monoxide (CO), nitrogen oxides (NOx), and volatile organic compounds (VOC) emissions, each, to 249.0 tons per year, as calculated on a rolling, consecutive 12-month basis.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)(a)(2))

3.B.22 For the entire facility, the permittee shall limit facility-wide formaldehyde emissions to 9.9 tons per year, as calculated on a rolling, consecutive 12-month basis.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)(a)(2))

3.B.23 For the entire facility, the permittee shall limit facility-wide total, combined Hazardous Air Pollutant (HAP) emissions to 24.9 tons per year, as calculated on a rolling, consecutive 12-month basis.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)(a)(2))

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

None.

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-001 through AA-010, AA-013 through AA-016, AA-039 through AA-042, and AB-026	Air Construction Permit issued January 20, 2011 and 11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)(a)(2)	5.B.1	Fuel	Fuel monitoring
AA-001 through AA-007	40 CFR 60.4243(b)(2)(ii)	5.B.2	Operations	General recordkeeping
	Air Construction Permit issued January 20, 2011 and 11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)(a)(2)	5.B.3	Operations	Operations monitoring
	Air Construction Permit issued January 20, 2011 and 11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)(a)(2)	5.B.4	Maintenance	General recordkeeping
	40 CFR 60.4243(b)(2)(ii) and 11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)(a)(2)	5.B.5	CO, NO _x , VOC, and Formaldehyde	Performance stack testing
	11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)(a)(2)	5.B.6	CO and NO _x	Quarterly portable analyzer monitoring
AA-001 through AA-007, AA-039 through AA-042, and AB-026	40 CFR 60.4245(a)	5.B.7	Operations	General recordkeeping
AA-008	40 CFR 60.4211(a)	5.B.8	NMHC + NO _x , CO, and PM	Operational requirements
	40 CFR 60.4211(c)	5.B.9	NMHC + NO _x , CO, and PM	Compliance Demonstration
	40 CFR 60.4211(f)	5.B.10	Operations	Emergency operations monitoring

Emission Point(s)	Applicable Requirement	Condition Number	Pollutant / Parameter Monitored	Monitoring/Recordkeeping Requirement
	40 CFR 60.4211(g)(3)	5.B.11	NMHC + NO _x , CO, and PM	Operational requirements
AA-011 AA-012	Air Construction Permit issued July 1, 2009 and modified August 29, 2014	5.B.12	Operations	Monitoring and recordkeeping requirements
AA-013 AA-014	Air Construction Permit issued July 1, 2009 and modified August 29, 2014	5.B.13	Operations	Monitoring and recordkeeping requirements
		5.B.14	Combustion Chamber Temperature	Monitoring and recordkeeping requirements
AA-015 AA-016	40 CFR 60.48c(g)	5.B.15	Fuel	Monitoring and recordkeeping requirements
AA-008, AA-039 through AA-042, and AB-026	40 CFR 60.4243(a)(1) and (b)(1))	5.B.16	Operations	Operational requirement
	40 CFR 60.4243(d)	5.B.17	Operations	Emergency operations monitoring
	40 CFR 60.4214(b), Subpart III and 40 CFR 60.4245(b), Subpart JJJ	5.B.18	Operations	Emergency operations recordkeeping
Facility-Wide	11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)(a)(2)	5.B.19	CO, NO _x , VOC, Total HAPs, and Formaldehyde	Monitoring and recordkeeping requirements

5.B.1 For Emission Points AA-001 through AA-010, AA-013 through AA-016, AA-039 through AA-042, and AB-026, the permittee shall monitor fuel usage, including type and quantity of fuel used.

(Ref.: Air Construction Permit issued January 20, 2011 and 11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)(a)(2))

5.B.2 For Emission Points AA-001 through AA-007, the permittee must 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.

(40 CFR 60.4243(b)(2)(ii), Subpart JJJJ)

- 5.B.3 For Emission Points AA-001 through AA-007, the permittee shall maintain proper catalyst operation and efficiency.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)(a)(2))

- 5.B.4 For Emission Points AA-001 through AA-007, the permittee shall keep on site a log of all inspections, maintenance, and repairs performed on each engine's selective catalytic reduction unit.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)(a)(2))

- 5.B.5 For Emission Points AA-001 through AA-007, the permittee shall stack test for Carbon Monoxide (CO) in accordance with EPA Test Method 10 or an approved equivalent, Nitrogen Oxides (NO_x) in accordance with EPA Test Method 7E or an approved equivalent, Formaldehyde in accordance with EPA Test Method 320 or 323 or an approved equivalent, and Volatile Organic Compounds (VOC) in accordance with EPA Test Method 18 or an approved equivalent. Performance stack testing must be conducted for each pollutant on each individual engine. Each engine shall operate at the maximum firing rate during the test, and engine operating load data shall be collected during the test. The stack test results, calculations indicating pollutant emissions, and data collected during the test shall be submitted within 60 days of completion of the test.

For Emission Points AA-001 through AA-006, subsequent performance testing must be conducted after the initial performance test every 8,760 hours of operation or 3 years, whichever comes first, and thereafter to demonstrate compliance with emission limitations cited in Condition 3.B.9 for Emission Points AA-001 through AA-004 and with emission limitations cited in Condition 3.B.10 for Emission Points AA-005 and AA-006.

For Emission Point AA-007, performance testing must be conducted within 180 days of installation and commencement of startup. Subsequent performance testing must be conducted after the initial performance test every 8,760 hours of operation or 3 years, whichever comes first, and thereafter to demonstrate compliance with emission limitations cited in Condition 3.B.10.

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), Subpart JJJJ and 11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)(a)(2))

- 5.B.6 For Emission Points AA-001 through AA-007, the permittee shall conduct quarterly monitoring for Carbon Monoxide (CO) and Nitrogen Oxides (NO_x) with an approved portable analyzer. Testing shall be conducted in accordance with approved EPA test methods to demonstrate compliance with emission limitations cited in Condition 3.B.9 for Emission Points AA-001 through AA-004 and with emission limitations cited in Condition 3.B.10 for Emission Points AA-005 through AA-007.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)(a)(2))

- 5.B.7 For Emission Points AA-001 through AA-007, AA-039 through AA-042, and AB-026, the permittee shall keep records of the following information:

- (a) All notifications submitted to comply with 40 CFR 60, subpart JJJJ and all documentation supporting any notification;
- (b) Maintenance conducted on the engines; and
- (c) Documentation from the manufacturer that the engine is certified to meet the applicable emission standards and information as required in 40 CFR Parts 90, 1048, 1054, and 1060.

(Ref: 40 CFR 60.4245(a), Subpart JJJJ)

- 5.B.8 For Emission Point AA-008, the permittee shall operate and maintain the emergency engine and control device according to the manufacturer's written instructions or procedures developed by the permittee that are approved by the engine manufacturer. In addition, the permittee may only change those settings that are permitted by the manufacturer. The permittee shall also meet the applicable requirements of 40 CFR 89.

(Ref.: 40 CFR 60.4211(a), Subpart III)

- 5.B.9 For Emission Point AA-008, the permittee shall demonstrate compliance with emission standards specified in Condition 3.B.12 by purchasing an engine certified according to 40 CFR 89, for the same model year and maximum engine power. The engine must be installed and configured according to the manufacturer's specifications.

(Ref.: 40 CFR 60.4211(c), Subpart III)

- 5.B.10 For Emission Point AA-008, the permittee must operate the emergency stationary engine according to the requirements cited below. In order for the engine to be considered and emergency stationary engine, any operation other than emergency operation, maintenance and testing, 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 40 CFR 60, Subpart III and must

meet all requirements for non-emergency engines.

- (a) There is no time limit on the use of the emergency engine in emergency situations.
- (b) The engine may be operated for a maximum of 100 hours per calendar year 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 DEQ 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), Subpart III)

- 5.B.11 For Emission Point AA-008, if the engine and control device are not installed, configured, operated, and maintained and control device according to the manufacturer's emission-related written instructions, or if emission-related settings are changed in a way that is not permitted by the manufacturer, then a maintenance plan and records of conducted maintenance must be kept, and must, to the extent practicable, maintain and operate each engine in a manner consistent with good air pollution control practice for minimizing emissions. In addition, an initial performance test must be conducted 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 the emission-related settings are changed in a way that is not permitted by the manufacturer. Subsequent performance testing following the initial performance test must be conducted 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), Subpart III)

- 5.B.12 For Emission Points AA-011 and AA-012, the permittee shall monitor and keep records of the hours of operation and the daily gas throughput of each glycol dehydrator unit on a monthly and consecutive twelve month basis.

(Ref.: Air Construction Permit issued July 1, 2009 and modified August 29, 2014)

- 5.B.13 For Emission Points AA-013 and AA-014, the permittee shall conduct routine inspections on each thermal oxidizer and conduct proper maintenance as necessary. Records of all

inspections and conducted maintenance shall be kept onsite for each thermal oxidizer.

(Ref.: Air Construction Permit issued July 1, 2009 and modified August 29, 2014)

- 5.B.14 For Emission Points AA-013 and AA-014, the permittee shall continuously monitor the chamber temperature of each thermal oxidizer and maintain proper burner operation and efficiency. Records of all deviations of the required minimum combustion chamber temperature shall be kept onsite for each thermal oxidizer.

(Ref.: Air Construction Permit issued July 1, 2009 and modified August 29, 2014, and 11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)(a)(2))

- 5.B.15 For Emission Points AA-015 and AA-016, the permittee shall record and maintain records of the amount of natural gas combusted during each calendar month or record and maintain records of the total amount of natural gas delivered to the facility during each calendar month.

(Ref. 40 CFR 60.48c(g), Subpart Dc)

- 5.B.16 For Emission Points AA-039 through AA-042 and AB-026, the permittee must operate and maintain each certified emergency engine and control device according to the manufacturer's emission-related written instructions and must keep records of conducted maintenance to demonstrate compliance. No performance testing is required. The applicable requirements as specified in 40 CFR 1068, Subparts A through D, must also be met. If the engine settings are adjusted according to and consistent with the manufacturer's instructions, the engine will not be considered out of compliance.

(Ref.: 40 CFR 60.4243(a)(1) and (b)(1), Subpart JJJJ)

- 5.B.17 For Emission Points AA-039 through AA-042 and AB-026, the permittee must operate the emergency stationary engines according to the requirements cited below. In order for the engines to be considered an emergency stationary engine, any operation other than emergency operation, maintenance and testing, and operation in non-emergency situations for 50 hours per year, as described below, is prohibited. If the engines are not operated according to these requirements, the engines will not be considered emergency engines under 40 CFR 60, subpart JJJJ and must meet all requirements for non-emergency engines.

- (a) There is no time limit on the use of the emergency stationary engines in emergency situations.
- (b) The engines may be operated for a maximum of a 100 hours per calendar year 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 DEQ 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 each engine beyond 100 hours per calendar year.

- (c) The engines 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 60.4243(d), Subpart JJJJ)

5.B.18 For Emission Points AA-008, AA-039 through AA-042, and AB-026, the permittee shall monitor and keep records of the hours operated through the non-resettable hour meter on each emergency engine, including what classified the operation as emergency and how many hours are spent for non-emergency operation.

(Ref.: 40 CFR 60.4214(b), Subpart IIII, and 40 CFR 60.4245(b), Subpart JJJJ)

5.B.19 For the entire facility, the permittee shall monitor and record the monthly and consecutive twelve month rolling total of carbon monoxide (CO), nitrogen oxides (NO_x), volatile organic compounds (VOC), formaldehyde, and total hazardous air pollutants (HAP) emissions. Emissions shall be calculated based on results of the most recent performance stack tests, as well as manufacturer's emissions documentation or other approved emission factors. Such records shall be kept for five years and made available upon request by DEQ personnel.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)(a)(2))

C. Specific Reporting Requirements

Emission Point(s)	Applicable Requirement	Condition Number	Pollutant / Parameter Monitored	Reporting Requirement
AA-001 through AA-010, AA-013 through AA-016, AA-039 through	11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)(a)(2)	5.C.1	Fuel	Submit semiannual reports of the type and quantity of fuel combusted

Emission Point(s)	Applicable Requirement	Condition Number	Pollutant / Parameter Monitored	Reporting Requirement
AA-042, and AB-026				
AA-001 through AA-008 and AB-026	11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)(a)(2)	5.C.2	Maintenance	Submit semiannual reports of maintenance
AA-001 through AA-007	11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)(a)(2)	5.C.3	NO _x and CO	Submit portable analyzer results
	11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)(a)(2)	5.C.4	NO _x , CO, VOC, and Formaldehyde	Submit performance stack test results
	11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)(a)(2)	5.C.5	NO _x , CO, VOC, and Formaldehyde	Submit reports of deviations
AA-013 and AA-014	11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)(a)(2)	5.C.6	VOC and HAPs	Submit reports of deviations
AA-015 and AA-016	40 CFR 60.48c(d), (e), and (j)	5.C.7	SO ₂	Submit semiannual reports of fuel certification
AA-008, AA-039 through AA-042, and AB-026	11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)(a)(2)	5.C.8	NO _x , CO, and VOC	Submit semiannual reports of operations
Facility-wide	11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)(a)(2)	5.C.9	NO _x , CO, VOC, Formaldehyde, and total HAPs	Submit semiannual reports of emissions

5.C.1 For Emission Points AA-001 through AA-010, AA-013 through AA-016, AA-039 through AA-042, and AB-026, the permittee shall submit semiannual reports showing the fuel usage, including type and quantity of fuel used.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)(a)(2))

5.C.2 For Emission Points AA-001 through AA-008 and AB-026, the permittee shall submit semiannual reports showing the records of conducted maintenance.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)(a)(2))

5.C.3 For Emission Points AA-001 through AA-007, the permittee shall submit results of all required portable analyzer monitoring within thirty (30) days of the date the portable analyzer monitoring is performed.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)(a)(2))

5.C.4 For Emission Points AA-001 through AA-007, the permittee shall submit performance stack test reports of all required performance stack testing within sixty (60) days of the date the performance stack testing is performed.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)(a)(2))

5.C.5 For Emission Points AA-001 through AA-007, the permittee shall report any deviations from any emission limitation or any occurrences where the compressor engines operated without the oxidation catalyst. This report shall include the time, date, reason for the deviation, and corrective actions or preventive measures taken. The report shall be submitted with five (5) days of the time the deviation began.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)(a)(2))

5.C.6 For Emission Points AA-013 through AA-014, the permittee shall report any deviations from the minimum combustion chamber temperature. This report shall include the time, date, reason for the deviation, and corrective actions or preventive measures taken. The report shall be submitted with five (5) days of the time the deviation began.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)(a)(2))

5.C.7 For Emission Points AA-015 and AA-016, the permittee shall submit semiannual reports in accordance with Condition 5.A.4 that contains the following information:

(a) Calendar dates covered in the reporting period;

(b) Fuel supplier certifications which include:

- (1) Distillate Oil: The name of the fuel supplier, a statement from the fuel supplier that the oil complies with the specifications under the definition of distillate oil as defined in 40 CFR 60.41c, and the sulfur content or maximum sulfur content of the fuel oil;
 - (2) Other Fuels: The name of the supplier of the fuel, the potential sulfur emissions rate or maximum potential sulfur emissions rate of the fuel in ng/J heat input, and the method used to determine the potential sulfur emissions rate of the fuel
- (c) A certified statement signed by the permittee stating that the records of fuel supplier certifications represent all the fuel combusted during the reporting period

(Ref.: 40 CFR 60.48c(d), (e), and (j), Subpart Dc)

- 5.C.8 For Emission Points AA-008, AA-039 through AA-042, and AB-026, the permittee shall submit semiannual reports showing the records of the operation of the engines in emergency and non-emergency service that are recorded through the non-resettable hour meters. Records must indicate the time of operation of the engines and the reason the engines were in operation during that time.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)(a)(2))

- 5.C.9 For the entire facility, the permittee shall submit semiannual reports showing the monthly and twelve (12) month consecutive rolling total emissions of CO, NO_x, VOC, Formaldehyde, and total HAPs. The reports shall be submitted by January 31 and by July 31 for the previous 12 months.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)(a)(2))

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

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

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

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