STATE OF MISSISSIPPI
AIR POLLUTION CONTROL
TITLE V PERMIT

TO OPERATE AIR EMISSIONS EQUIPMENT

THIS CERTIFIES THAT

The University of Mississippi
158 Hickory Lane
University, Lafayette County, Mississippi

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.

MISSISSIPPI ENVIRONMENTAL QUALITY PERMIT BOARD

Krystal Rudolph

AUTHORIZED SIGNATURE
MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY

Permit Issued: August 7, 2023

Effective Date: As Specified Herein.

Expires: July 31, 2028 **Permit No.: 1420-00021**

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SECTION 1. GENERAL CONDITIONS

1.1 The permittee must comply with all conditions of this permit. Any permit non-compliance 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 Prior to its expiration, this permit may be reopened in accordance with the provisions listed below.

(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 three (3) or more years. Such a reopening shall be completed no later than eighteen (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 the 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) Re-openings shall not be initiated before a notice of such intent is provided to the Title V source by the MDEQ at least thirty (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 MDEQ within a reasonable time any information the MDEQ 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 MDEQ copies of records required to be kept by the permittee or, for information to be confidential, the permittee shall furnish such records to the MDEQ 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 MDEQ 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 Mississippi Administrative Code, Title 11, Part 2, Chapter 6 – "Air Emissions Operating Permit Regulations for Purposes of Title V of the Federal Clean Air Act".

(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).)

(c) 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).)

(d) The fee shall be due September 1of 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 MDEQ 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.)

(e) 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 MDEQ 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 MDEQ, 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, 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 Operating Permit (TVOP). If the permittee submits a timely and complete application, the failure to have a TVOP 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 MDEQ 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 timeframe as provided in other regulations for emergencies] and the notification includes the following:

(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 MDEQ 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 Mississippi Administrative Code, Title 11, Part 2, Chapter 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 Mississippi Administrative Code, Title 11, Part 2, Chapter 2 – "Permit Regulations for the Construction and/or Operation of Air Emissions Equipment", and may require modification of this permit in accordance with Mississippi Administrative Code, Title 11, Part 2, Chapter 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, Subpart I (or 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 Part 51, Subpart I (or 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 Part 51, Subpart I (or 40 CFR 51.166); or

(f) Any change in ownership of the stationary source.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.1.C.(15).)

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, silvi-cultural 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 an Emergency Air Pollution Episode Alert imposed by the Executive Director of the MDEQ and must meet the following buffer zones.

(a) Open burning without a forced-draft air system must not occur within five hundred (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 fifty (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 non-compliance 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 Part (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 MDEQ within two (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, start-ups, and shutdowns.

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

(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 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 five (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 non-compliance, and the corrective actions taken and;

(v) That as soon as practicable but no later than twenty-four (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) Start-ups and Shutdowns (as defined in 11 Miss. Admin. Code Pt. 2, R. 1.2.)

(1) Start-ups and shutdowns are part of normal source operation. Emission limitations apply during start-ups and shutdowns unless source specific emission limitations or work practice standards for start-ups 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 Mississippi Administrative Code, Title 11, Part 2, Chapter 1, the Department will consider establishing source specific emission limitations or work practice standards for start-ups and shutdowns. Source specific emission limitations or work practice standards established for start-ups and shutdowns are subject to the requirements prescribed in Mississippi Administrative Code, Title 11, Part 2, Chapter 1, Rule 1.10.B.(2)(a) through (e).

(3) Where an upset as defined in Rule 1.2 occurs during start-up 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 Mississippi Administrative Code, Title 11, Part 2, Chapter 1, Rule 1.8. The permittee shall not be required to obtain a modification of this permit in order to perform the referenced activities.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 1.8.)

1.27 Regarding compliance testing (if applicable):

(a) The results of any emissions sampling and analysis shall be expressed both in units consistent with the standards set forth in any Applicable Rules and Regulations or this permit and in units of mass per time.

(b) Compliance testing will be performed at the expense of the permittee.

(c) Each emission sampling and analysis report shall include (but not be limited to) the following:

(1) Detailed description of testing procedures;

(2) Sample calculation(s);

(3) Results; and

(4) Comparison of results to all Applicable Rules and Regulations and to emission limitations in the permit.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.6.B.(3), (4), and (6).)

SECTION 2. EMISSION POINTS & POLLUTION CONTROL DEVICES

Emission Point	Description
AA-000	Facility-Wide [The University of Mississippi]
AA-005	Facility-Wide Diesel-Fired and Natural Gas-Fired Emergency Engines – see Appendix B
AA-006	2,848 HP (2,000 kW) Diesel-Fired Non-Emergency Power Generation Engine [Manufacture Date: 2001; max. heat input: 18.63 MMBTU / hour]
AA-007	2,848 HP (2,000 kW) Diesel-Fired Non-Emergency Power Generation Engine [Manufacture Date: 2001; max. heat input: 18.63 MMBTU / hour]
AA-008	2,848 HP (2,000 kW) Diesel-Fired Non-Emergency Power Generation Engine [Manufacture Date: 2001; max. heat input: 18.63 MMBTU / hour]
AA-009	2,848 HP (2,000 kW) Diesel-Fired Non-Emergency Power Generation Engine [Manufacture Date: 2001; max. heat input: 18.63 MMBTU / hour]
AA-010	2,848 HP (2,000 kW) Diesel-Fired Non-Emergency Power Generation Engine [Manufacture Date: 2001; max. heat input: 18.63 MMBTU / hour]
AA-011	2,848 HP (2,000 kW) Diesel-Fired Non-Emergency Power Generation Engine [Manufacture Date: 2001; max. heat input: 18.63 MMBTU / hour]
AA-012	2,848 HP (2,000 kW) Diesel-Fired Non-Emergency Power Generation Engine [Manufacture Date: 2001; max. heat input: 18.63 MMBTU / hour]
AA-013	2,848 HP (2,000 kW) Diesel-Fired Non-Emergency Power Generation Engine [Manufacture Date: 2001; max. heat input: 18.63 MMBTU / hour]
AA-014	2,848 HP (2,000 kW) Diesel-Fired Non-Emergency Power Generation Engine [Manufacture Date: 2001; max. heat input: 18.63 MMBTU / hour]
AA-015	2,848 HP (2,000 kW) Diesel-Fired Non-Emergency Power Generation Engine [Manufacture Date: 2001; max. heat input: 18.63 MMBTU / hour]
AA-024	12.55 MMBTU / Hour Dual Fuel-Fired (Natural-Gas / Fuel Oil) Boiler
AA-025	12.25 MMBTU / Hour Dual Fuel-Fired (Natural-Gas / Fuel Oil) Boiler
AA-026	12.46 MMBTU / Hour Dual Fuel-Fired (Natural-Gas / Fuel Oil) Boiler
AA-027	Gasoline Dispensing Stations [Includes three (3) gasoline dispensing stations]
AA-028	Facilities Maintenance Woodworking Dust Collector [equipped with a baghouse]
AA-029	Center for Manufacturing Excellence (CME) Dust Collector No. 1 [equipped with a baghouse]
AA-030	Center for Manufacturing Excellence (CME) Dust Collector No. 2 [equipped with a filter]
AA-031	Center for Manufacturing Excellence (CME) Spray Paint Booth [equipped with a filter]

Emission Point	Description
AA-032	Center for Manufacturing Excellence (CME) Powder Coat Booth [Filtered and Recycled within Facility]

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 or allow the emission of smoke from a point source into the open air from any manufacturing, industrial, commercial or waste disposal process that exceeds forty percent (40%) opacity subject to the exceptions provided below:

(a) Start-up operations may produce emissions, which exceed 40% opacity for up to fifteen (15) minutes per start-up in any one (1) hour and not to exceed three (3) start-ups per stack in any twenty-four (24) hour period.

(b) Emissions resulting from soot blowing operations (i.e. ash removal) shall be permitted provided such emissions do not exceed sixty percent (60%) 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 (1) 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 or allow the discharge into the ambient air from any point source 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.)

3.A.3 The permittee shall not cause or allow the emission of particles or any contaminants in sufficient amounts or of such duration from any process as to be injurious to humans, animals, plants, or property, or to be a public nuisance, or create a condition of air pollution.

(a) The permittee shall not cause or permit the handling, transporting, or storage of any material in a manner which allows or may allow unnecessary amounts of particulate matter to become airborne.

b) When dust, fumes, gases, mist, odorous matter, vapors, or any combination thereof escape from a building or equipment in such a manner and amount as to cause a nuisance to property other than that from which it originated or to violate any other provision of 11 Miss. Admin. Code Pt. 2, Ch. 1, the Commission may order such corrected in a way that all air and gases or air and gas-borne material leaving the building or equipment are controlled or removed prior to discharge to the open air.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 1.3.C.)

B. EMISSION POINT SPECIFIC EMISSION LIMITATIONS & STANDARDS

Emission Point(s)	Applicable Requirement	Condition Number	Pollutant / Parameter	Limit/Standard
AA-000 (Facility-Wide)	11 Miss. Admin. Code Pt. 2, R. 2.15.C., as established in the TVOP issued September 19, 2011; modified January 20, 2016 and June 4, 2018	3.B.1	Fuel Restriction	0.05% Sulfur Content by Weight
		3.B.2		1,000,000,000.0 SCF of Natural Gas / Year (Rolling 12-Month Total)
	11 Miss. Admin. Code Pt. 2, R. 2.15.C., as established in the TVOP issued September 19, 2011; modified January 20, 2016, June 4, 2018, and August 7, 2023	3.B.3	NO_X	235.0 tpy (Rolling 12-Month Total)
			CO	235.0 tpy (Rolling 12-Month Total)
AA-005 AA-006 through AA-015	40 CFR Part 63, Subpart ZZZZ – NESHAP for Stationary Reciprocating Internal Combustion Engines 40 CFR 63.6580; 63.6585(a), (c), and (f)(3); and 63.6590(a)(1)(iii), (a)(2)(iii), and (c)(1); Subpart ZZZZ	3.B.4	HAPs	General Applicability
AA-005	11 Miss. Admin. Code Pt. 2, R. 1.3.D(1)(a).	3.B.5	PM (filterable)	0.6 lb. / MMBTU
	40 CFR Part 60, Subpart IIII – Standards of Performance for Stationary Compression Ignition Internal Combustion Engines 40 CFR 60.4200(a)(2); Subpart IIII	3.B.6	PM CO NO_X + HC	General Applicability
	40 CFR 60.4205(a), (b), 60.4206, 60.4211(a)(1) – (3), and Table 1; Subpart IIII	3.B.7		Applicable Emission Standards
	40 CFR 60.4207(b); Subpart IIII	3.B.8	Fuel Requirement	15 ppm Max. Sulfur Content; and 40 Min. Cetane Index or 35% (by volume) Max. Aromatic Content
	40 CFR Part 60, Subpart JJJJ – Standards of Performance for Stationary Spark Ignition Internal Combustion Engines 40 CFR 60.4230(a)(4); Subpart IIII	3.B.9	CO NO_X VOCs	General Applicability
	40 CFR 60.4230(a)(4)(iv), 60.4233(d), (e), and 60.4234; Subpart JJJJ	3.B.10		Applicable Emission Standards

Emission Point(s)	Applicable Requirement	Condition Number	Pollutant / Parameter	Limit/Standard
AA-005	40 CFR 60.4209(a); Subpart IIII 40 CFR 60.4237(b) and (c); Subpart JJJJ 11 Miss. Admin. Code Pt. 2, R. 2.15.C., as established in the TVOP issued June 4, 2018	3.B.11	Monitoring Requirement	Install a Non-Resettable Hour Meter
	40 CFR 60.4211(f)(1) – (3); Subpart IIII 40 CFR 60.4243(d)(1) – (3); Subpart JJJJ 40 CFR 63.6640(f)(1), (2), and (4); Subpart ZZZZ	3.B.12	Non-Emergency Operation	100 Hours Per Calendar Year for Maintenance and Readiness Testing 50 Hours Per Calendar Year for Non-Emergency Situations
AA-006 through AA-015 AA-024 through AA-026	11 Miss. Admin. Code Pt. 2, R. 1.3.D(1)(b).	3.B.13	PM (filterable)	$E = 0.8808 \cdot (I^{-0.1667})$
AA-006 through AA-015	11 Miss. Admin. Code Pt. 2, R. 2.15.C., as established in the Title V Operating Permit issued September 19, 2011 and modified June 4, 2018	3.B.14	Operational Restriction	5,000.0 Operating Hours / Year (Combined) (Rolling 12-Month Total)
	11 Miss. Admin. Code Pt. 2, R. 2.15.C., as established in the TVOP issued September 19, 2011 and modified January 20, 2016	3.B.15	CO	Oxidation Catalyst Requirement
	40 CFR Part 72, Subpart A – Acid Rain Program General Provisions 40 CFR 72.7; Subpart A	3.B.16	SO_2 NO_X	New Unit Exemption
	40 CFR 63.6603(a) and Table 2d; Subpart ZZZZ	3.B.17	CO	Reduce Emissions by 70% or More; or Limit the Concentration in the Exhaust to 23 ppmvd at 15% O_2
	40 CFR 63.6603(a) and Table 2b (Item 2); Subpart ZZZZ	3.B.18	Pressure Drop Temperature	Maintain Operational Limits
AA-024 AA-025 AA-026	11 Miss. Admin. Code Pt. 2, R. 1.4.A.(1).	3.B.19	SO_2	4.8 lb. / MMBTU

Emission Point(s)	Applicable Requirement	Condition Number	Pollutant / Parameter	Limit/Standard
	40 CFR Part 63, Subpart JJJJJJ – NESHAP for Industrial, Commercial, and Institutional Boilers for Area Sources 40 CFR 63.11193 and 63.11195(e); Subpart JJJJJJ	3.B.20	HAPs	General Applicability (Gas-Fired Boiler Exclusion Clause)
	40 CFR Part 60, Subpart Dc – Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units 40 CFR 60.40c(a); Subpart Dc	3.B.21	SO_2 PM	General Applicability
AA-027	40 CFR Part 63, Subpart CCCCCC – NESHAP for Gasoline Dispensing Facilities 40 CFR 63.11111(a), (b), and (i); Subpart CCCCCC	3.B.22	HAPs	General Applicability

3.B.1 For Emission Point AA-000 (Facility-Wide), the permittee shall not combust any liquid fuel that contains sulfur in excess of 0.05 percent by weight.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.15.C., as established in the Title V Operating Permit (TVOP) issued September 19, 2011; modified January 20, 2016 and June 4, 2018)

3.B.2 For Emission Point AA-000 (Facility-Wide), the permittee shall combust no more than 1,000,000,000.0 standard cubic feet (scf) [or 1,000.0 million standard cubic feet (MMscf)] of natural gas per year based on a rolling 12-mont total.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.15.C., as established in the TVOP issued September 19, 2011; modified January 20, 2016 and June 4, 2018)

3.B.3 For Emission Point AA-000 (Facility-Wide), the permittee shall limit the total respective emission of nitrogen oxides (NO_X) and carbon monoxide (CO) to no more than 235.0 tons per year (tpy) based on a rolling 12-month total.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.15.C., as established in the TVOP issued September 19, 2011; modified January 20, 2016, June 4, 2018, and August 7, 2023)

3.B.4 For Emission Points AA-005 and AA-006 through AA-015, the permittee is subject to and shall comply with the applicable requirements found in 40 CFR Part 63, Subpart ZZZZ – National Emission Standards for Hazardous Air Pollutants (NESHAP) for Stationary Reciprocating Internal Combustion Engines (RICE) and 40 CFR Part 63, Subpart A – General Provisions (as required in Table 8 of Subpart ZZZZ).

For Emission Point AA-005, emergency RICE are detailed in Appendix B of this permit and designated in the following manner:

(a) The engines highlighted in "yellow" were constructed prior to June 12, 2006. As such, these engines are considered "existing institutional emergency stationary engines" and are not subject to the provisions found in Subpart ZZZZ **contingent upon** each engine complying with the requirements for specified in 40 CFR 63.6640(f), Subpart ZZZZ.

(b) The engines highlighted in "green" are not subject to Subpart ZZZZ because the units are either portable engines that do not meet the definition of a "stationary engine" or considered "new" under Subpart ZZZZ but not subject to 40 CFR Part 60, Subpart JJJJ.

(c) The non-highlighted engines are considered new compression ignition (CI) engines and new spark ignition (SI) engines. Pursuant to 40 CFR 63.6590(c); Subpart ZZZZ, each engine shall meet the requirements of Subpart ZZZZ by meeting the applicable requirements found in 40 CFR Part 60, Subpart IIII and 40 CFR Part 60, Subpart JJJJ.

For the purpose of this permit, Emission Points AA-006 through AA-015 are 4-stroke, rich burn (4SRB) CI engines with a cylinder displacement greater than thirty (30) liters.

(Ref.: 40 CFR 63.6580; 63.6585(a), (c), (f)(3), and 63.6590(a)(1)(iii), (a)(2)(iii), and (c)(1); Subpart ZZZZ)

3.B.5 For Emission Point AA-005, the maximum permissible emission of ash and/or particulate matter (PM) shall not exceed 0.6 pounds per million BTU (MMBTU) per hour heat input.

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

3.B.6 For Emission Point AA-005 (CI Engines – as applicable), the permittee is subject to and shall comply with the applicable requirements found in 40 CFR Part 60, Subpart IIII – Standards of Performance for Stationary Compression Ignition Internal Combustion Engines and 40 CFR Part 60, Subpart A – General Provisions (as required in Table 8 of Subpart IIII).

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

3.B.7 For Emission Point AA-005 (CI Engines), the permittee shall comply with the following emission standards accordingly:

(a) For a pre-2007 model year emergency engine, the permittee shall comply with the applicable emission standards specified in Table 1 of Subpart IIII.

(b) For a 2007 and later model year emergency engine, the permittee shall comply with the applicable emission standards specified in 40 CFR 60.4202(a)(1) and (2), Subpart IIII .

The permittee shall operate and maintain these engines such that they meet these standards over the entire life of the engines. Additionally, the permittee shall operate and maintain each engine in accordance with the manufacturer's emission related instructions, change only those emission related settings that are permitted by the manufacturer, and meet the applicable requirements found in 40 CFR Part 1068.

(Ref.: 40 CFR 60.4205(a), (b), 60.4206, 60.4211(a)(1) – (3), and Table 1; Subpart IIII)

3.B.8 For Emission Point AA-005 (CI Engines), the permittee shall only combust diesel fuel within the engine that meets the following requirements (on a per-gallon basis):

(a) A maximum sulfur content of fifteen (15) parts per million (ppm); and

(b) A minimum cetane index of forty (40) or a maximum aromatic content of thirty-five (35) volume percent.

(Ref.: 40 CFR 60.4207(b); Subpart IIII)

3.B.9 For Emission Point AA-005 (SI Engines), the permittee is subject to and shall comply with the applicable requirements found in 40 CFR Part 60, Subpart JJJJ – Standards of Performance for Stationary Spark Ignition Internal Combustion Engines and 40 CFR Part 60, Subpart A – General Provisions (as required in Table 3 of Subpart JJJJ).

(Ref.: 40 CFR 60.4230(a)(4); Subpart JJJJ)

3.B.10 For Emission Point AA-005 (SI Engines), the permittee shall comply with the applicable emission standards for the appropriate maximum engine power listed in Table 1 of Subpart JJJJ. Additionally, the permittee shall operate and maintain each engine such that it meets the applicable standards over the entire life of the engine.

(Ref.: 40 CFR 60.4230(a)(4)(iv), 60.4233(d), (e), and 60.4234; Subpart JJJJ)

3.B.11 For Emission Point AA-005 (CI Engines and SI Engines), the permittee shall install a non-resettable hour meter on each engine regardless of whether the engine is required to do so by a Federal regulation.

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

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

3.B.12 For Emission Point AA-005 (CI Engines and SI Engines), any operation of the engine for any reason other than emergency operation, maintenance and testing, and operation in non-emergency situations for fifty (50) hours per year is prohibited. If an engine is not operated in accordance with paragraphs (a) through (c) of this condition, the engine will not be considered an emergency engine under the applicable regulation and shall meet all requirements for a corresponding non-emergency engine.

(a) There is no time limit on the use of an engine in emergency situations.

(b) The permittee may operate an engine for the purpose of maintenance checks and readiness testing, provided that the tests are recommended by federal, state or local government, the manufacturer, the vendor, or the insurance company accompanied with the engine. Maintenance checks and readiness testing of an engine is limited to a maximum of one hundred (100) hours per calendar year. The permittee may petition the MDEQ for approval of additional hours to be used for maintenance checks and readiness testing. However, a petition is not required if the permittee maintains records indicating that Federal, State, or local standards require maintenance and testing of the engine beyond 100 hours per calendar year.

(c) The permittee may operate an engine 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. The 50 hours per calendar year for non-emergency situations cannot be used for peak shaving or non-emergency demand response, or to generate income for a facility to supply power to an electric grid or otherwise supply power as part of a financial arrangement with another entity.

(Ref.: 40 CFR 60.4211(f)(1) – (3); Subpart IIII)

(Ref.: 40 CFR 60.4243(d)(1) – (3); Subpart JJJJ)

(Ref.: 40 CFR 63.6640(f)(1), (2), and (4); Subpart ZZZZ)

3.B.13 For Emission Points AA-006 through AA-015 and AA-024 through AA-026, the maximum permissible emission of ash and/or PM shall not exceed an emission rate as determined by the relationship:

$$E = 0.8808 \cdot (I^{-0.1667})$$

where "E" is the emission rate in pounds per MMBTU per hour heat input and "I" is the heat input in MMBTU per hour.

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

3.B.14 For Emission Points AA-006 through AA-015, the permittee shall limit the combined operation of all non-emergency engines to no more than 5,000.0 hours per year based on a rolling 12-month total.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.15.C., as established in the TVOP issued September 19, 2011 and modified June 4, 2018)

3.B.15 For Emission Points AA-006 through AA-015, the permittee shall at all times route the emissions from each non-emergency generator engine through an oxidation catalyst.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.15.C., as established in the TVOP issued September 19, 2011 and modified January 20, 2016)

3.B.16 For Emission Points AA-006 through AA-015, the permittee shall comply with the

applicable requirements for a "new unit exemption" found in 40 CFR Part 72, Subpart A – Acid Rain Program General Provisions.

(Ref.: 40 CFR 72.7; Subpart A)

3.B.17 For Emission Points AA-006 through AA-015, except during periods of start-up, the permittee shall at all times comply with one of the following emission standards:

(a) Reduce the emission of CO by seventy (70) percent or more; or

(b) Limit the concentration of CO in the exhaust to no more than 23 parts per million by volume, dry (ppmvd) at fifteen (15) percent oxygen.

(Ref.: 40 CFR 63.6603(a), 63.6605(a), and Table 2d (Item 3); Subpart ZZZZ)

3.B.18 For Emission Points AA-006 through AA-015, except during periods of start-up, the permittee shall comply with the following operating limits:

(a) Maintain the catalyst so that the pressure drop across the catalyst does not change by more than two (2) inches of water from the pressure drop established during the initial performance test; and

(b) Maintain a temperature of the engine's exhaust so that the catalyst inlet temperature is greater than or equal to 450°F and less than or equal to 1,350°F.

(Ref.: 40 CFR 63.6603(a) and Table 2b (Item 2); Subpart ZZZZ)

3.B.19 For Emission Points AA-024, AA-025, and AA-026, 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 MMBTU heat input.

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

3.B.20 For Emission Points AA-024, AA-025, and AA-026, the permittee is subject to and shall comply with all applicable requirements found in 40 CFR Part 63, Subpart JJJJJJ – NESHAP for Industrial, Commercial, and Institutional Boilers for Area Sources and 40 CFR Part 63, Subpart A – General Provisions (as required in Table 8 of Subpart JJJJJJ).

Emission Points AA-024, AA-025, and AA-026 are permitted to burn natural gas and No. 2 fuel oil; however, the sources are considered "gas-fired boilers" and are not subject to the requirements of the subpart pursuant to 40 CFR 63.11195(e), Subpart JJJJJJ.

For the purposes of this permit, a "gas-fired boiler" includes any boiler that operates under one of the following criteria:

(a) Combusting a gaseous fuel not combined with any solid fuels;

(b) Combusting a liquid fuel only during periods of gas curtailment, gas supply interruption;

(c) Combusting a liquid fuel for periodic testing, maintenance, or operator training for a combined total not to exceed forty-eight (48) hours during any calendar year.

(Ref.: 40 CFR 63.11193 and 63.11195(e); Subpart JJJJJJ)

3.B.21 For Emission Points AA-024, AA-025, and AA-026, the permittee is subject to and shall comply with all applicable requirements found in 40 CFR Part 60, Subpart Dc – Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units.

For the purposes of this permit, a "steam generating unit" that only utilizes natural gas as a fuel is exempt from all emission standards promulgated by Subpart Dc.

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

3.B.22 For Emission Point AA-027, the permittee is subject to and shall comply with all applicable requirements found in 40 CFR Part 63, Subpart CCCCCC – NESHAP for Source Category: Gasoline Dispensing Facilities (GDFs) and 40 CFR Part 63, Subpart A – General Provisions (as required in Table 3 of Subpart CCCCCC).

For the purpose of this permit, the permittee (i.e. each GDF) has a monthly gasoline throughput of less than 10,000 gallons. However, if the permittee exceeds a monthly throughput of 10,000 gallons, the permittee shall become applicable to the requirements for the new throughput threshold and shall remain applicable even if the permittee fall below the applicable throughput threshold.

(Ref.: 40 CFR 63.11111(a), (b), and (i); Subpart CCCCCC)

C. INSIGNIFICANT AND TRIVIAL ACTIVITY EMISSION LIMITATIONS & STANDARDS

Applicable Requirement	Condition Number	Pollutant / Parameter	Limit / Standard
11 Miss. Admin. Code Pt. 2, R. 1.3.D(1)(a).	3.C.1	PM	0.6 lb. / MMBTU
11 Miss. Admin. Code Pt. 2, R. 1.4.A(1).	3.C.2	SO_2	4.8 lb. / MMBTU

3.C.1 The maximum permissible emission of ash and/or PM from a fossil fuel burning installation of less than ten (10) MMBTU per hour heat input shall not exceed 0.6 pounds per MMBTU 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 MMBTU heat input.

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

D. WORK PRACTICE STANDARDS

Emission Point(s)	Applicable Requirement	Condition Number	Pollutant / Parameter	Limit/Standard
AA-005 AA-006 through AA-015	40 CFR 63.6605(b); Subpart ZZZZ	3.D.1	CO	General Duty Clause
	40 CFR 63.6625(h); Subpart ZZZZ	3.D.2		Minimize Idling Time During Periods of Start-Up
	40 CFR 60.4211(a); Subpart IIII	3.D.3	NMHC + NO_X CO PM Opacity (Smoke)	Perform Compliance Practices
AA-027	40 CFR 63.11115(a); Subpart CCCCCC	3.D.4	HAPs	General Duty Clause
	40 CFR 63.11116(a); Subpart CCCCCC	3.D.5		Minimize Vapor Releases

3.D.1 For Emission Points AA-005 and AA-006 through AA-015, the permittee shall at all times operate and maintain an engine (including associated air pollution control equipment and monitoring equipment) in a manner consistent with safety and good air pollution control practices for minimizing emissions. The general duty to minimize emissions does not require any further efforts to reduce emissions if levels required by Subpart ZZZZ have been achieved.

The determination of whether such operation and maintenance procedures are being used will be based on information available to the MDEQ, which may include (but is not limited to) monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source.

(Ref.: 40 CFR 63.6605(b); Subpart ZZZZ)

3.D.2 For Emission Points AA-005 and AA-006 through AA-015, permittee shall minimize each engine's time spent at idle and minimize the engine's start-up time to a period needed for appropriate and safe loading of an engine, not to exceed thirty (30) minutes, after which time the applicable non-startup emission limitations apply.

(Ref.: 40 CFR 63.6625(h); Subpart ZZZZ)

3.D.3 For Emissions Point AA-005 (CI Engines), the permittee shall adhere to the following work practices:

(a) Operate and maintain each engine and control device (if any) according to the manufacturer's emission-related written instructions;

(b) Change only those emission-related settings that are permitted by the manufacturer; and

(c) Meet the requirements of 40 CFR Part 1068 (as applicable).

(Ref.: 40 CFR 60.4211(a); Subpart IIII)

3.D.4 For Emission Point AA-027, the permittee shall at all times operate and maintain each affected source (including associated air pollution control equipment and monitoring equipment) in a manner consistent with safety and good air pollution control practices for minimizing emissions.

The determination of whether such operation and maintenance procedures are being used will be based on information available to the MDEQ, which may include (but is not limited to) monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source.

(Ref.: 40 CFR 63.11115(a); Subpart CCCCCC)

3.D.5 For Emission Points AA-027, the permittee shall not allow gasoline to be handled in a manner that would result in vapor releases to the atmosphere for extended periods of time. The measures to be taken include (but are not limited to) the following practices:

(a) Minimize gasoline spills;

(b) Clean up spills as expeditiously as possible;

(c) Cover all open gasoline containers and all gasoline storage tank fill-pipes with a gasketed seal when not in use; and

(d) Minimize gasoline sent to open waste collection systems that collect and transport gasoline to reclamation and recycling devices (such as oil / water separators).

Portable gasoline containers that meet the requirements specified in 40 CFR Part 59, Subpart F are considered acceptable for compliance with paragraph (c) of this condition.

(Ref.: 40 CFR 63.11116(a) and (d); Subpart CCCCCC)

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 of each year for the preceding calendar year. If the permit was reissued or modified during the course of the preceding calendar year, the compliance certification shall address each version of the permit. Each compliance certification shall include the following items:

(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), and (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.

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

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. Supporting 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 of each calendar year 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 Mississippi Administrative Code, Title 11, Part 2, Chapter 6, Rule 6.2.E.

For applicable periodic reporting requirements in 40 CFR Parts 60, 61, and 63, the permittee shall comply with the deadlines in this condition for reporting conducted on a semiannual basis. Additionally, any required quarterly reports shall be submitted by the end of the month following each calendar quarter (i.e. April 30, July 31, October 31, and January 31) and any required annual reports shall be submitted by January 31 following each calendar year.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.A.(3)(c)(1).)
(Ref.: 40 CFR 60.19(c), 61.10(g), and 63.10(a)(5); Subpart A)

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. The report shall be made within five (5) working 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 MDEQ and the EPA.

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

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

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

5.A.8 Unless otherwise specified in Section 4, upon permit issuance, the monitoring, testing, recordkeeping, and reporting requirements of Section 5 herein supersede the requirements of any preceding permit to construct and/or operate.

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

B. SPECIFIC MONITORING AND RECORDKEEPING REQUIREMENTS

Emission Point(s)	Applicable Requirement	Condition Number	Pollutant / Parameter Monitored	Monitoring / Recordkeeping Requirement
AA-000	11 Miss. Admin. Code Pt. 2, R. 6.3.A.(3)(a)(2).	5.B.1	NO_X CO	Calculate Emissions (Monthly and Rolling 12-Month Totals)
		5.B.2	Fuel Usage Fuel Quality	Monitor Fuel Usage (Monthly and Rolling 12-Month Total)
AA-005	11 Miss. Admin. Code Pt. 2, R. 6.3.A.(3)(a)(2). 40 CFR 63.6655(f)(2); Subpart ZZZZ 40 CFR 60.4214(b); Subpart IIII 40 CFR 60.4245(b); Subpart JJJJ	5.B.3	Hours of Operation	Monitor Hours of Operation (Emergency and Non-Emergency) (Monthly)
AA-005 (CI Engines)	40 CFR 60.4114(a)(2); Subpart IIII)	5.B.4	PM CO NO_X + HC	Recordkeeping Requirements
AA-005 (SI Engines)	40 CFR 60.4243 (a)(1), (a)(2)(ii – iii), (b)(1), and 40 CFR 60.4244; Subpart JJJJ)	5.B.5	CO NO_X VOCs	Recordkeeping Requirements
AA-006 through AA-015	11 Miss. Admin. Code Pt. 2, R. 6.3.A.(3)(a)(2)..	5.B.6	Hours of Operation	Monitor Hours of Operation for Each Engine (Monthly and Rolling 12-Month Total)
	40 CFR 63.6615, 63.6620(a), (b), (d), (e), (i), 63.6640(b), Table 3 (Item 4), and Table 4 (Item 1 or 3); Subpart ZZZZ	5.B.7	CO	Conduct Routine Performance Testing Calculate the Final Applicable Result
	11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)(a)(2). 40 CFR 63.6625(b); Subpart ZZZZ	5.B.8	Catalyst Inlet Temperature	Operate and Maintain a CPMS Maintain a Site-Specific Monitoring Plan
	40 CFR 63.6625(b); Subpart ZZZZ	5.B.9		Monitoring / Data Collection Requirements
	40 CFR 63.6640(a), 63.6655(d), and Table 6; Subpart ZZZZ	5.B.10	Catalyst Inlet Temperature Pressure Drop	Continuous Compliance Requirements

Emission Point(s)	Applicable Requirement	Condition Number	Pollutant / Parameter Monitored	Monitoring / Recordkeeping Requirement
	40 CFR 63.6655(a) and (b); Subpart ZZZZ	5.B.11	CO	Recordkeeping Requirements
AA-024 AA-025 AA-026	40 CFR 60.48c(g)(2); Subpart Dc	5.B.12	SO_2 PM	Monitor Fuel Usage Monthly (Each Boiler)
	11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)(a)(2).	5.B.13	SO_2	Monitor the Usage of Each Fuel Type Monthly (Each Boiler) Maintain Fuel Supplier Certification on Sulfur Content (Fuel Oil)
AA-027	40 CFR 63.11111(e) and 63.11125(d); Subpart CCCCCC	5.B.14	HAPs	Record Monthly Cumulative Throughput and Malfunction

5.B.1 For Emission Point AA-000 (Facility-Wide), the permittee shall calculate and record the total emission of NO_X and CO in tons from all sources that can reasonably emit the pollutant(s) on both a monthly and rolling 12-month total basis.

Unless otherwise specified herein, the permittee shall include all reference data utilized to calculate emissions (e.g. operational data, applicable emission factors, engineering judgement determinations, etc.).

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

5.B.2 From Emission Point AA-000 (Facility-Wide), the permittee shall monitor and record the total respective volume (in gallons or cubic feet) of each fuel (i.e. fuel oil or natural gas) combusted on both a monthly and rolling 12-month total basis.

Additionally, the permittee shall maintain documentation that details the sulfur content of each shipment of fuel combusted on a monthly basis. However, for the purpose of this condition, the permittee may maintain a single gas quality certification that indicates from each natural gas supplier.

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

5.B.3 For Emission Point AA-005, the permittee shall monitor and record (via a non-resettable hour meter) the hours of operation for each engine on a monthly basis for both emergency and non-emergency service. Additionally, the permittee shall detail and maintain what classified each occurrence as either an emergency or a non-emergency.

(Ref. 11 Miss. Admin. Code Pt. 2, R. 6.3.A.(3)(a)(2). and 40 CFR 60.4245; Subpart JJJJ)
(Ref.: 40 CFR 63.6655(f); Subpart ZZZZ and 40 CFR 60.4214(b); Subpart IIII)

5.B.4 For Emission Point AA-005 (CI Engines), the permittee shall maintain documentation that details the following information:

(a) All notifications submitted to comply with Subpart IIII;

(b) Any maintenance conducted on an engine; and

(c) Documentation from the manufacturer that indicates an engine is certified to meet the emission standards specified in Conditions 3.B.7.

(Ref.: 40 CFR 60.4114(a)(2); Subpart IIII)

5.B.5 For Emission Point AA-005 (SI Engines), the permittee shall maintain documentation that details the following information:

(a) Confirm the purchase of a spark-ignition internal combustion engine certified to the emission standards specified in Condition 3.B.10 and maintain such documentation;

(b) If the permittee operates and maintains an engine according to the manufacturer's emission-related written instructions, the permittee shall maintain records of conducted maintenance to demonstrate compliance, but no performance testing is required. The permittee shall also meet the requirements as specified in 40 CFR Part 1068, Subparts A through D (as they apply). If the permittee adjusts engine settings according to and consistent with the manufacturer's instructions, the engine will not be considered out of compliance.

(c) If the permittee does not operate and maintain an engine according to the manufacturer's emission-related written instructions, the engine will be considered a non-certified engine. As such, the permittee shall 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. Additionally, the permittee must demonstrate compliance through performance testing (contingent on the rated horsepower) by conducting an initial performance test within one (1) year of engine start-up:

(Ref.: 40 CFR 60.4243 (a)(1), (a)(2)(ii – iii), (b)(1), and 40 CFR 60.4244; Subpart JJJJ)

5.B.6 For Emission Points AA-006 through AA-015, the permittee shall monitor and record the duration (in hours) that each engine operates on both a monthly and rolling 12-month total basis.

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

5.B.7 For Emission Points AA-006 through AA-015, the permittee shall demonstrate compliance with one of the CO emission standards specified in Condition 3.B.17 by conducting routine performance testing on each engine every 8,760 hours of operation or once every three (3) years (whichever comes first).

The permittee shall conduct each performance test in accordance with the procedures specified in either Item 1 or Item 3 of Table 4 in Subpart ZZZZ (contingent upon the specified CO emission standard). Additionally, the permittee shall conduct each performance test under such conditions as the MDEQ specifies to the permittee based on representative performance (i.e. performance based on normal operating conditions) of each engine. Upon request, the permittee shall make available to the MDEQ such records as may be necessary to determine the conditions of a performance test.

The engine percent load during a performance test must be determined by documenting the calculations, assumptions, and measurement devices used to measure or estimate the percent load in a specific application.

The permittee shall utilize the emissions data from a performance test in conjunction with the applicable equation(s) found in either 40 CFR 63.6620(e)(1) or (e)(2); Subpart ZZZZ to determine the final CO result.

If the catalyst is changed, the permittee shall reestablish the values of the operating parameters measured during the initial performance test. When the values of the operating parameters are reestablished, the permittee shall also conduct a performance test to demonstrate that the required CO emission standard is met.

(Ref.: 40 CFR 63.6615, 63.6620(a), (b), (d), (e), (i), 63.6640(b), Table 3 (Item 4), and Table 4 (Item 1 or 3); Subpart ZZZZ)

5.B.8 For Emission Points AA-006 through AA-015, the permittee shall operate and maintain a continuous parameter monitoring system (CPMS) that collects the catalyst inlet temperature in accordance with the site-specific monitoring plan and the provisions specified in 40 CFR 63.6625(b)(3) – (6); Subpart ZZZZ.

The site-specific monitoring plan shall address the monitoring system design, data collection, and the quality assurance / quality control elements specified in 40 CFR 63.6625(b)(1)(i) – (v); Subpart ZZZZ. Additionally, the permittee shall maintain the site-specific monitoring plan on-site.

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

(Ref.: 40 CFR 63.6625(b); Subpart ZZZZ)

5.B.9 For Emission Points AA-006 through AA-015, the permittee shall at all times monitor and collect the catalyst inlet temperature and pressure drop an engine is in operation, except for periods of monitor malfunction, associated repair, required performance evaluation, and required quality assurance / control activities.

For the purpose of this condition, a “monitoring malfunction” is any sudden, infrequent, not reasonably preventable failure of the monitoring system to provide valid data. However, a monitoring failure that is caused in part by poor maintenance or careless operation is not a malfunction.

The permittee shall not use data recorded during periods of monitoring malfunction, associated repair, and required quality assurance / control activity in data averages and calculations used. For all other periods, the permittee shall use all the valid data collected.

(Ref.: 40 CFR 63.6635; Subpart ZZZZ)

5.B.10 For Emission Points AA-006 through AA-015, the permittee must demonstrate continuous compliance with the applicable CO emission standard specified in Condition 3.B.17 and the operating limits specified in Condition 3.B.18 by monitoring the catalyst pressure drop and the catalyst inlet temperature in accordance with the following requirements:

(a) *For the catalyst inlet temperature*: Collect, maintain, and reduce the data collected in accordance with Conditions 5.B.8 and 5.B.9 to rolling 4-hour averages.

(b) *For the catalyst pressure drop*: Measure the differential pressure drop across the catalyst once per month.

(Ref.: 40 CFR 63.6640(a), 63.6655(d), and Table 6 (Item 10); Subpart ZZZZ)

5.B.11 For Emission Points AA-006 through AA-015, the permittee shall maintain documentation that contains the following information:

(a) A copy of each notification and report submitted to comply with Subpart ZZZZ (including all documentation supporting Notification of Compliance Status).

(b) Records on the occurrence and duration of each malfunction of an engine or the associated air pollution control / monitoring equipment;

(c) Records on any required performance tests and/or performance evaluations;

(d) Records on all required maintenance performed on air pollution control / monitoring equipment;

(e) Records on the actions taken during periods of malfunction to minimize emissions in accordance with Condition 3.D.1, including corrective actions to restore malfunctioning process and air pollution control / monitoring equipment to its normal or usual manner of operation.

(f) For each CPMS, the permittee shall maintain the following information:

(1) Records described in 40 CFR 63.10(b)(2)(vi) – (xi), Subpart A;

(2) Previous (i.e. superseded) versions of the performance evaluation plan as required in 40 CFR 63.8(d)(3), Subpart A; and

(3) Any request for alternatives to the relative accuracy test for a CPMS as required in 40 CFR 63.8(f)(6)(i), Subpart A (if applicable).

(Ref.: 40 CFR 63.6655(a) and (b); Subpart ZZZZ)

5.B.12 For Emission Points AA-024, AA-025, and AA-026, the permittee shall monitor and record the amount of natural gas combusted for each boiler each month.

(Ref.: 40 CFR 60.48c(g)(2); Subpart Dc)

5.B.13 For Emission Points AA-024, AA-025, and AA-026, the permittee shall maintain documentation that details the type and quantity of each fuel combusted on a monthly basis.

For any fuel combusted, the permittee shall also maintain documentation from a fuel supplier that certifies the sulfur content (by percent weight).

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)(a)(1).)

5.B.14 For Emission Point AA-027, the permittee shall maintain documentation that details the following information:

(a) The monthly cumulative throughput of gasoline from the combined storage tanks;

(b) The occurrence and duration of each malfunction for all equipment, which includes process equipment, air pollution control equipment, and monitoring equipment; and

(c) The action(s) taken during each period of malfunction to minimize emissions in accordance with Condition 3.D.4, which includes any corrective action(s) taken to restore the malfunctioning equipment to its normal or usual manner of operation.

(Ref.: 40 CFR 63.11111(e) and 40 CFR 63.11125(d); Subpart CCCCCC)

C. SPECIFIC REPORTING REQUIREMENTS

Emission Point(s)	Applicable Requirement	Condition Number	Pollutant / Parameter Monitored	Reporting Requirement
AA-000	11 Miss. Admin. Code Pt. 2, R. 6.3.A.(3)(c)(1).	5.C.1	NO_X CO Fuel Usage Sulfur Content Hours of Operation	Submit a Semi-Annual Monitoring Report
AA-006 through AA-015	40 CFR 63.6645(g); Subpart ZZZZ 11 Miss. Admin. Code Pt. 2, R. 2.6.B.(5).	5.C.2	HAPs	Submit Notice of Intent for Performance Test Submit 10-Day Notification of Performance Testing Event
	40 CFR 63.6615(i) and 63.6645(h)(2); Subpart ZZZZ	5.C.3		Submit the Performance Test Results
	40 CFR 63.6650(a), (c), (e), and Table 7 (Item 1); Subpart ZZZZ	5.C.4		Submit a Semi-Annual Compliance Report

5.C.1 For Emission Point AA-000 (Facility-Wide), the permittee shall submit a semi-annual monitoring report in accordance with Condition 5.A.4 that details the following information:

(a) The total emission of NO_X and CO from all applicable sources in tons on both a monthly and rolling 12-month total basis (as well as any corresponding data used to calculate emissions).

(b) The total volume of natural gas combusted from all applicable sources in standard cubic feet (scf) on both a monthly and rolling 12-month total basis;

(c) For Emission Points AA-024, AA-025, and AA-026 – the report shall include the following information:

(1) The total quantity of each fuel combusted on a monthly basis; and

(2) For any fuel oil combusted, the corresponding fuel supplier certification that details the sulfur content.

(d) For Emission Point AA-005 – the hours of operation for each emergency engine (including a summary on how many hours are spent for emergency operation, what classified the operation as an emergency situation, how many hours are spent for non-emergency operation, and the circumstances for non-emergency operation) and each non-emergency engine.

(e) For Emission Points AA-006 through AA-015 – the hours of operation for each engine on both a monthly and rolling 12-month total basis; and

(f) For Emission Point AA-027 – the total monthly gasoline throughput.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.A.(3)(c)(1).)

5.C.2 For Emission Points AA-006 through AA-015, the permittee shall submit a "Notification of Intent" to conduct a performance test required by Condition 5.B.7 no later than sixty (60) days before the performance test is scheduled to begin. The notification shall detail the procedures and test methods to be implemented during the actual testing.

Additionally, the permittee shall notify the MDEQ in writing at least ten (10) days prior to the intended testing date so that a representative from the MDEQ may be afforded the opportunity to observe the stack testing.

If deemed necessary by the MDEQ, a conference may be required prior to the intended testing date to discuss the proposed test methods and procedures outlined in the performance testing protocol.

(Ref.: 40 CFR 63.6645(g); Subpart ZZZZ and 11 Miss. Admin. Code Pt. 2, R. 2.6.B.(5).)

5.C.3 For Emission Points AA-006 through AA-015, the permittee shall submit the results of a performance test required by Condition 5.B.7 to the MDEQ no later than sixty (60) days after the date the performance test was completed.

Additionally, the following information shall be included with the results from a performance test:

(a) The average percent load determination;

(b) The engine model number, engine manufacturer, and the year of purchase;

(c) The manufacturer's site-rated brake horsepower; and

(d) The ambient temperature, pressure, and humidity during the performance test.

All assumptions made to estimate or calculate the percent load during the performance test must be clearly explained. If measurement devices are used (such as flow meters, kilowatt meters, beta analyzers, stain gauges, etc.), the model number of the measurement device and an estimate of its accurate in percentage of true value must be provided.

(Ref.: 40 CFR 63.6615(i) and 63.6645(h)(2); Subpart ZZZZ)

5.C.4 For Emission Points AA-006 through AA-015, the permittee shall submit a semi-annual compliance report in accordance with Condition 5.A.4 that contains the following information (as applicable):

(a) If there was a malfunction during the reporting period, the report shall include the following information:

(1) The number, duration, and a brief description for each type of malfunction that occurred during the reporting period as well as what caused / may have caused any applicable emission limitation to be exceeded; and

(2) A description of actions taken during the malfunction to minimize emissions in accordance with Condition 3.D.1 including actions taken to correct the malfunction.

(b) If there are no deviations from any emission limit or operating limit, a statement that there were no deviations from the applicable emission limit or operating limit during the reporting period;

(c) If there were no periods during which a CPMS was out-of-control [as specified in 40 CFR 63.8(c)(7), Subpart A], a statement that there were not periods during which the CMS was out-of-control during the reporting period;

(d) If there was a deviation from an applicable CO emission standard, an operating limit, and/or the CPMS was out-of-control during the reporting period, the report shall include the following information:

(1) The date and time that each malfunction started and stopped as well as the duration that a CPMS was inoperative [except for zero (low-level) and high-level checks] or out-of-control – including the information specified in 40 CFR 63.8(c)(8), Subpart A;

(2) The date and time that each deviation started and stopped, and whether each deviation occurred during a period of malfunction or during another period;

(3) A summary of the total duration of the deviation during the reporting period and the total duration as a percent of the total source operating time during that reporting period;

(4) A breakdown of the total duration of the deviations during the reporting period into those that are due to control equipment problems, process problems, other known causes, and other unknown causes;

(5) A summary of the total duration of CPMS downtime during the reporting period and the total duration of CPMS downtime as a percent of the total operating time at which the CPMS downtime occurred during that reporting period;

(6) A brief description of the engine;

(7) A brief description of the CPMS;

(8) The date of the latest CPMS certification or audit; an

(9) A description of any changes in a CPMS, process, or controls since the last reporting period.

(Ref.: 40 CFR 63.6650(a), (c), (e), and Table 7 (Item 1); Subpart ZZZZ)

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://www.ecfr.gov/ under Title 40, or MDEQ 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 containing class I, class II or non-exempt substitute refrigerants;

(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, as

well as persons selling, offering for sale, and/or purchasing class I, class II, or non-exempt substitute 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

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
grains / dscf	Grains Per Dry Standard Cubic Foot
HP	Horsepower
HAP	Hazardous Air Pollutant
lb. / hour	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 Part 61, or National Emission Standards for Hazardous Air Pollutants for Source Categories, 40 CFR Part 63
NMVOC	Non-Methane Volatile Organic Compounds
NO_X	Nitrogen Oxides
NSPS	New Source Performance Standards, 40 CFR Part 60
O&M	Operation and Maintenance
PM	Particulate Matter
PM_{10}	Particulate Matter less than 10 μm in diameter
$PM_{2.5}$	Particulate Matter less than 2.5 μm in diameter
ppm	Parts per Million
PSD	Prevention of Significant Deterioration
SIP	State Implementation Plan
SO_2	Sulfur Dioxide
SSM	Start-up, Shutdown, and Malfunction
TPY	Tons per Year
TRS	Total Reduced Sulfur
VEE	Visible Emissions Evaluation
VHAP	Volatile Hazardous Air Pollutant
VOHAP	Volatile Organic Hazardous Air Pollutant
VOC	Volatile Organic Compound

APPENDIX B

List of Emergency Engines On-Site

University of Mississippi

Emergency SI Engines

Location	Engine Make	Engine Model	Engine	Engine	GenSet	SI/CI	Manuf. Date	Install. Date	Disp. (L/Cyl)	Particulate filter with backpressure monitor?	Non-resettable hour meter?	Subject to Subpart ZZZZ	Subject to Subpart JJJJ
			(HP)	(MMBTUH)	(kW)					(Yes or No)	(Yes or No)	(Yes or No)	(Yes or No)
Coulter Hall	Ohan	30.0EK-16R	60	0.46	30	SI	n/a	1975	<10	No	Yes	Yes	Yes
Inn At Ole Miss	Generac	7750610100	267	2.05	175	SI	Feb-07	2009	<10	No	Yes	Yes	No
Insight Park	Cummins	GGLA-6996805	187.5	1.44	125	SI	May-11	2012	<10	No	Yes	No	No
Indoor Pratice Field	Ford	ESG642	74	0.57	55	SI	2004	2005	<10	No	Yes	No	No
Jackson Ave (Storm Shelter)	Cummins	C20 N6	40	0.31	60	SI	2017	2018	<10	No	Yes	Yes	Yes
Johnson Commons (Rebel Market)	Power Sltns	D111L	300	2.31	200	SI	2013	2014	<10	No	Yes	Yes	Yes
Kinard Hall #2	Ford	CSG-6491-6005-F	45	0.35	30	SI	pre-2006	pre-2006	<10	No	Yes	No	No
Kinard Well/Water Treatment	Cummins	GGHH-4482189	362	2.78	300	SI	2009	2010	<10	No	Yes	Yes	Yes
Lamar Hall	Kohler	150REZGB	228	1.75	150	SI	5/3/2012	2013	<10	No	Yes	Yes	Yes
Library	Cummins	OSP-0028-10	152	1.17	100	SI	~. 2012	2013	<10	No	Yes	Yes	Yes
Martindale Student Center	Olympian	97A02804-5	156	1.20	100	SI	n/a	2000	<10	No	Yes	No	No
Medicinal Garden	Mitsibushi	RGD3624GNAX	54	0.42	36	SI	2020	2020	<10	No	Yes	Yes	Yes
NCPA (Center for Acoustics)	Caterpillar	DG450 GC	673	4.71	450	SI	2021	2022	<10	No	Yes	Yes	Yes
North Lift Station	Cummins	CCEXB06.8DGB	250	1.92	75	SI	n/a	2013	<10	No	Yes	Yes	Yes
Shoemaker Hall	Olympian	G300LG6	460	3.54	300	SI	2017	2018	<10	No	Yes	Yes	No
Small Business	Cummins	GGLA	152	1.17	125	SI	~. 2010	2011	<10	No	Yes	No	No
South Campus Rec. Center	Kohler	150REZGC	260	2.00	194	SI	2017	2017	<10	No	Yes	Yes	Yes
Swayze Field	Kohler	30REZGB	72	0.55	54	SI	2017	2017	<10	No	Yes	Yes	Yes
Tennis (Indoor)	Cummins	QSJ5.9G-G1	85	0.65	80	SI	2015	2017	<10	No	Yes	Yes	Yes
Turner Center	Kohler	30RZ72	49	0.38	30	SI	n/a	1983	<10	No	Yes	No	No
Wier Hall Bldg	Cummins	LRG4251-6005A	40	0.31	30	SI	n/a	1989	<10	No	Yes	No	No
Brown Hall	Generac	QT3015GNSX	48	0.37	15	SI	n/a	1962	<10	No	Yes	No	No
Burns Hall	Cummins	GGLA-7749954	152	1.17	125	SI	~. 2010	2011	<10	No	Yes	Yes	Yes
Crosby Hall	Ford	CSG-6491-6005-F	60	0.46	30	SI	n/a	1970	<10	No	Yes	No	No
Deaton Hall	Cummins	Genset GGLB-6265497	300	2.31	150	SI	2010	~ 2011	<10	No	Yes	Yes	Yes
Hefley Hall	Kohler	100RZG	162	1.25	100	SI	n/a	2001	<10	No	Yes	No	No
Lucky Day (Res. College N)	Olympian	G200LG2	400	3.08	200	SI	2010	~ 2011	<10	No	Yes	Yes	Yes
Residential College South	Generac	Genset 10684330100	454	3.49	250	SI	Jun-05	2009	<10	No	Yes	Yes	Yes
Residential College South	Kohler	Genset 125RZG	260	2.00	130	SI	~. 2008	2009	<10	No	Yes	Yes	No
Stewart Hall	Cummins	GGKC-5618717	224	1.72	140	SI	Nov. 2009	2010	<10	No	Yes	Yes	Yes
Martin Hall (roof)	Generac	QT02724GNAN	54	0.42	27	SI	2009	~ 2009	<10	No	Yes	Yes	Yes
Stockard Hall (roof)	Generac	QT02724GNAN	54	0.42	27	SI	2009	~ 2009	<10	No	Yes	Yes	Yes
Minor Hall	Cummins	250GFBC	383	2.95	250	SI	~. 2010	2011	<10	No	Yes	Yes	Yes
RH1 (Northgate Dorm)	Generac	SG0150KGO136	231	1.78	150	SI	2014	2015	<10	No	Yes	Yes	Yes
Kincannon Hall	Onan	JC-18R	32	0.25	15	SI	n/a	mid-60's	<10	No	Yes	No	No

Engines that are considered existing institutional emergency RICE and are not subject to 40 CFR 63, Subpart ZZZZ.

Engines that are subject to requirements in 40 CFR 60, Subpart JJJJ.

Engines that are new units but are not subject to 40 CFR 60, Subpart JJJJ since they are emergency engines manufactured before January 1, 2009.

University of Mississippi

Emergency CI Engines

Location	Engine Make	Engine Model	Engine	Engine	GenSet	SI/CI	Manuf. Date	Install. Date	Disp. (L/Cyl)	Particulate filter with backpressure monitor?	Non-resettable hour meter?	Subject to Subpart ZZZZ	Subject to Subpart JJJJ
			(HP)	(MMBTUH)	(kW)					(Yes or No)	(Yes or No)	(Yes or No)	(Yes or No)
Airport	Cummins	QSL9G2NR3	364	2.80	200	CI	~. 2009	2010	<10	No	Yes	Yes	Yes
Barnard/Isom/Sommerville	Kohler	15RM62	32	0.25	15	CI	n/a	pre-1980	<10	No	Yes	Yes	Yes
Baxter Hall	Kohler	200REOZJF	315	2.42	200	CI	Jul-12	2013	<10	No	Yes	Yes	Yes
Coliseum Well/Water Treatment	Kohler	250REOZD	310	2.38	250	CI	n/a	1982	<10	No	Yes	No	No
Dispatch Office	John Deere	5030HF285G	96	0.74	60	CI	Jan-13	Jun-13	<10	No	Yes	Yes	Yes
Faser Hall Gen. Room Roof	Caterpillar	C18	671	4.70	600	CI	2013	2014	<10	No	Yes	Yes	Yes
Ford Center (Perform. Arts bldg)	Cummins	NTA-855-G2	465	3.58	250	CI	n/a	2004	<10	No	Yes	No	No
Holman Hall	Caterpillar	3306	164	1.26	250	CI	n/a	1996	<10	No	Yes	No	No
Kinard Hall #1	John Deere	4024HF285B	195	1.50	130	CI	2012	2013	<10	No	Yes	Yes	Yes
Lyceum	Kohler	180R02J	289	2.22	180	CI	n/a	2001	<10	No	Yes	No	No
Meek Hall/Student Health	Cummins	DSGAB-2016077	152	1.17	125	CI	~. 2009	~. 2009	<10	No	Yes	Yes	Yes
Natural Products #1-Basement	Kohler	500ROZD71	830	5.81	500	CI	n/a	Apr-95	<10	No	Yes	Yes	Yes
Natural Products #2-Basement	Kohler	500ROZD71	830	5.81	500	CI	n/a	Apr-95	<10	No	Yes	Yes	Yes
Natural Products #3-Basement	Kohler	500ROZD71	830	5.81	500	CI	n/a	Apr-95	<10	No	Yes	Yes	Yes
Natural Products #1-Roof	Caterpillar	C18	900	6.30	600	CI	2013	2015	<10	No	Yes	Yes	Yes
Natural Products #2-Roof	Caterpillar	C18	900	6.30	600	CI	2013	2015	<10	No	Yes	Yes	Yes
Res. Parking Garage	Caterpillar	C4.4	107	0.82	80	CI	2015	2017	<10	No	Yes	Yes	Yes
Pavilion	Cummins	DQCB-1420327	1220	8.54	750	CI	2015	2016	<10	No	Yes	Yes	Yes
Powers Hall	Caterpillar	C1.5	28	0.22	20	CI	Nov-12	2012/13	<10	No	Yes	Yes	Yes
FM Shop/Admin Wells	Caterpillar	C6.6	225	1.73	150	CI	2012	2013	<10	No	Yes	Yes	Yes
FM Shops Building	Cummins	QSX15-G9	755	5.29	400	CI	~. 2009	2010-11	<10	No	Yes	Yes	Yes
RCK Law Center	Cummins	QSX15-G9	755	5.29	400	CI	Sep-09	2010	<10	No	Yes	Yes	Yes
SOC #1	Cummins/Onan	KTA38-G1	1135	7.95	750	CI	1990	1990	<10	No	Yes	No	No
SOC #2	Cummins/Onan	KTA38-G1	1135	7.95	750	CI	1990	1990	<10	No	Yes	No	No
SOC #3	Caterpillar	3412	1006	7.04	750	CI	1998	1998	<10	No	Yes	No	No
Super Computer #1	Caterpillar	C27	1150	8.05	750	CI	~. 2010	2011	<10	No	Yes	Yes	Yes
Super Computer #2	Caterpillar	C27	1150	8.05	750	CI	~. 2010	2011	<10	No	Yes	Yes	Yes
Tel Com/Ticket Office	Mitsibushi	4D34-T	120	0.92	80	CI	2006	2006	<10	No	Yes	Yes	Yes
Union	Caterpillar	C7.1	268	2.06	200	CI	2016	2017	<10	No	Yes	Yes	Yes
USDA Building	Generac	F4GE9485*J	132	1.01538	80	CI	2011	2012	<10	No	Yes	Yes	Yes
Vaught #1 South	Cummins	230DFAB-2269	380	2.92	250	CI	n/a	2001	<10	No	Yes	No	No
Vaught #2 (Under Stadium N)	Caterpillar	C6.6	230	1.77	150	CI	2015	2017	<10	No	Yes	Yes	Yes
Vaught East Dispatch Side	Caterpillar	C15	787	5.51	500	CI	2014	2017	<10	No	Yes	Yes	Yes
Waste Water	Cummins	QSX15-G9	755	5.29	400	CI	Nov. 10	2009	<10	No	Yes	Yes	Yes
Wetlands Lower	Spectrum 20	20DSJ	80	0.62	20	CI	n/a	1992	<10	No	Yes	No	No
Wetlands Upper	Spectrum 30	30DSJ	115	0.88	30	CI	n/a	2001	<10	No	Yes	No	No
Crosby Hall	Cat./Olymp.	Genset Model D200P3	400	3.08	200	CI	2007	~ 2007	<10	No	Yes	Yes	Yes
Stockard / Martin Hall	Cummins	DQDAC-1344288	600	4.20	300	CI	2014	~ 2014	<10	No	Yes	Yes	Yes
RH2 &3	Caterpillar	D150-8	300	2.31	150	CI	n/a	~ 2005	<10	No	Yes	Yes	Yes
Kincannon Hall	Cat./Olymp.	Genset D200P3	400	3.08	200	CI	2007	~ 2007	<10	No	Yes	Yes	Yes

Engines are considered existing institutional emergency RICE and are not subject to Subpart ZZZZ.

Engines subject to 40 CFR 60, Subpart IIII (all engines are certified to meet Subpart IIII emission standards)

Portable engines that are not considered a Stationary RICE.

APPENDIX C

Acid Rain Program – New Unit Exemption Notice

United States
Environmental Protection Agency
Acid Rain Program

OMB No. 2060-0258
Approval expires 05/31/2025

New Unit Exemption

For more information, see instructions and refer to 40 CFR 72.7

This submission is: ☐ **New** ☐ **Revised** x Renewal

STEP 1
Identify the new unit by plant name, State, Plant Code (ORISPL) and unit ID#.

Plant Name	State	Plant Code	Unit ID#
University of Mississippi	MS		

STEP 2
List the generator ID numbers and, to one decimal place, the nameplate capacity of each generator served by the unit. Then total nameplate capacity and enter the result.

2,3 GEN ID #	4,5 GEN ID #	6,7 GEN ID #	8,9 GEN ID #	10,11 GEN ID #
2.0, 2.0 MWe	2.0, 2.0 MWe	2.0, 2.0 MWe	2.0, 2.0 MWe	2.0, 2.0 MWe

TOTAL
20 MWe

Ten (10) units rated at 2.0 MWe-each.

STEP 3
List all fuels currently burned or expected to be burned, by the unit and the percent sulfur content by weight of each.

Fuel (current)	Sulfur Content (current)	Fuel (expected)	Sulfur Content (expected)
ULSD	0.0015 %	ULSD	0.0015 %
ULSD	0.0015 %	ULSD	0.0015 %

STEP 4
Identify the first full calendar year in which the unit meets (or will meet) the requirements of 40 CFR 72.7(a).

January 1, 2013.

STEP 5
Read the special provisions.

Special Provisions

(1) The owners and operators and, to the extent applicable, the designated representative of a unit exempt under 40 CFR 72.7 shall (i) comply with the requirements of 40 CFR 72.7(a) for all periods for which the unit is exempt under 40 CFR 72.7 and (ii) comply with the requirements of the Acid Rain Program concerning all periods for which the exemption is not in effect, even if such requirements arise, or must be complied with, after the exemption takes effect.
(2) For any period for which a unit is exempt under 40 CFR 72.7, the unit is not an affected unit under the Acid Rain Program and 40 CFR parts 70 and 71 and is not eligible to be an opt-in source under 40 CFR part 74. As an unaffected unit, the unit shall continue to be subject to any other applicable requirements under 40 CFR parts 70 and 71.
(3) For a period of 5 years from the date the records are created, the owners and operators of a unit exempt under 40 CFR 72.7 shall retain at the source that includes the unit records demonstrating that the requirements of 40 CFR 72.7(a) are met. The 5-year period for keeping records may be extended for cause, at any time prior to the end of the period, in writing by the Administrator or the permitting authority. Such records shall include, for each delivery of fuel to the unit or for fuel delivered to the unit continuously by pipeline, the type of fuel, the sulfur content, and the sulfur content of each sample taken. The owners and operators bear the burden of proof that the requirements of paragraph 40 CFR 72.7(a) are met.
(4) On the earliest of the following dates, a unit exempt under 40 CFR 72.7(b), (c), or (e) shall lose its exemption and become an affected unit under the Acid Rain Program and 40 CFR parts 70 and 71: (i) the date on which the unit first serves one or more generators with total nameplate capacity in excess of 25 MWe; (ii) the date on which the unit burns any coal or coal-derived fuel except for coal-derived gaseous fuel with a total sulfur content no greater than natural gas; or (iii) January 1 of the year following the year in which the annual average sulfur content for gaseous fuel burned at the unit exceeds 0.05 percent by weight (as determined under 40 CFR 72.7(d)) or for nongaseous fuel burned at the unit

exceeds 0.05 percent by weight (as determined under 40 CFR 72.7(d)). Notwithstanding 40 CFR 72.30(b) and (c), the designated representative for a unit that loses its exemption under 40 CFR 72.7 shall submit a complete Acid Rain permit application on the later of January 1, 1998 or 60 days after the first date on which the unit is no longer exempt. For the purpose of applying monitoring requirements under 40 CFR part 75, a unit that loses its exemption under 40 CFR 72.7 shall be treated as a new unit that commenced commercial operation on the first date on which the unit is no longer exempt.

STEP 6
Read the appropriate certification and sign and date.

Certification (for designated representatives only)

I am authorized to make this submission on behalf of the owners and operators of the affected source or affected units for which the submission is made. I certify under penalty of law that I have personally examined, and am familiar with, the statements and information submitted in this document and all its attachments. Based on my inquiry of those individuals with primary responsibility for obtaining the information, I certify that the statements and information are to the best of my knowledge and belief true, accurate, and complete. I am aware that there are significant penalties for submitting false statements and information or omitting required statements and information, including the possibility of fine or imprisonment.

Name	
Signature	Date

Certification (for certifying officials only)

I certify under penalty of law that I have personally examined, and am familiar with, the statements and information submitted in this document and all its attachments. Based on my inquiry of those individuals with primary responsibility for obtaining the information, I certify that the statements and information are to the best of my knowledge and belief true, accurate, and complete. I am aware that there are significant penalties for submitting false statements and information or omitting required statements and information, including the possibility of fine or imprisonment.

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