STATE OF MISSISSIPPI
AIR POLLUTION CONTROL
TITLE V PERMIT

TO OPERATE AIR EMISSIONS EQUIPMENT

THIS CERTIFIES THAT

Rolls Royce North America, Inc. – Rolls Royce Outdoor Test Facility
Stennis Outdoor Test Facility
H1 Test Site, Building 5002
Stennis Space Center, Hancock 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.

Permit Issued: October 3, 2022

Effective Date: As specified herein.

MISSISSIPPI ENVIRONMENTAL QUALITY PERMIT BOARD

Krystal Rudolph

AUTHORIZED SIGNATURE
MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY

Expires: September 30, 2027 **Permit No.: 1000-00050**

23215 PER20210001

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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 Mississippi Department of Environmental Quality (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-100	Facility Wide (Rolls Royce North America, Inc. – Rolls Royce Outdoor Test Facility)
AA-001	No. 1 Jet Engine Test Stand
AA-002	2,349 HP Diesel-Fired Compression Ignition Non-Emergency Engine [equipped with a oxidation catalyst; max. heat input: 13.75 MMBTU / hour; manufacture year: 1998]
AA-003	39,600-Gallon Above Ground, Horizontal Jet Fuel Storage Tank
AA-004	39,600-Gallon Above Ground Jet Fuel Storage Tank
AA-005	14,410-Gallon Jet Fuel Day Tank
AA-006	1,000-Gallon Above Ground Diesel Fuel Oil Storage Tank
AA-009	39,600-Gallon Horizontal Jet Fuel Storage Tank
AA-010	600-Gallon Above Ground, Horizontal Diesel Fuel Oil Storage Tank
AA-012	No. 2 Jet Engine Test Stand
AA-013	39,600-Gallon Above Ground, Horizontal Jet Fuel Storage Tank
AA-014	39,600-Gallon Above Ground, Horizontal Jet Fuel Storage Tank
AA-015	39,600-Gallon Above Ground, Horizontal Jet Fuel Storage Tank
AA-016	25,000-Gallon Above Ground, Horizontal Jet Fuel Storage Tank

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 that 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-100 Facility-Wide)	11 Miss. Admin. Code Pt. 2, R. 2.2.B(10)., as established in Permit to Construct issued April 25, 2006 and modified June 27, 2012 **(PSD Avoidance Limits)**	3.B.1	NO_X	249.0 tpy (Rolling 12-Month Total)
			CO	249.0 tpy (Rolling 12-Month Total)
			SO_2	249.0 tpy (Rolling 12-Month Total)
			VOC	249.0 tpy (Rolling 12-Month Total)
AA-001 AA-012	11 Miss. Admin. Code Pt. 2, R. 2.2.B(10)., as established in Permit to Construct issued April 25, 2006 and modified June 27, 2012	3.B.2	Fuel Requirement	Only Combust Jet Fuel for Engine Testing
AA-002	11 Miss. Admin Code Pt. 2, R. 1.3.D(1)(b).	3.B.3	PM	$E = 0.8808 \cdot (I^{-0.1667})$
AA-002	40 CFR Part 63, Subpart ZZZZ – NESHAP for Stationary Reciprocating Internal Combustion Engines 40 CFR 63.6585(a), (c), and 63.6590(a)(1)(iii); Subpart ZZZZ	3.B.4	HAPs	General Applicability
	40 CFR 63.6603(a) and Table 2d; Subpart ZZZZ	3.B.5	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.6	Pressure Drop Temperature	Operational Limits
	40 CFR 63.6604(a); Subpart ZZZZ	3.B.7	Fuel Requirement	15 ppm Max. Sulfur Content; and 40 Min. Cetane Index or 35% (by volume) Max. Aromatic Content
	40 CFR 63.6625(g); Subpart ZZZZ	3.B.8	CO	Crankshaft Operational Requirements

3.B.1 For Emission Point AA-100 (Facility-Wide), the permittee shall limit the total emission of nitrogen oxides (NO_X), carbon monoxide (CO), sulfur dioxide (SO_2), and volatile organic compounds (VOCs) to no more than 249.0 tons per year (tpy) based on a rolling 12-month total.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.2.B(10)., as established in the Permit to Construct issued April 25, 2006 and modified June 27, 2012 – PSD Avoidance Limits)

3.B.2 For Emission Points AA-001 and AA-012, the permittee shall only combust jet fuel for engine testing.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.2.B(10)., as established in the Permit to Construct issued April 25, 2006 and modified June 27, 2012)

3.B.3 For Emission Point AA-002, the maximum permissible emission of ash and/or particulate matter from any fossil fuel burning installation equal to / greater than ten (10) MMBTU per hour heat input but less than 10,000 MMBTU per hour heat input 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.4 For Emission Point AA-002, the permittee is subject to and shall comply with the applicable requirements found in 40 CFR Part 63, Subpart ZZZZ – National Emissions 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).

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

3.B.5 For Emission Point AA-002, except during periods of start-up, the permittee shall comply with one of the following emission standards at all times:

(a) Reduce CO emissions 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.6 For Emission Point AA-002, 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 1350°F.

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

3.B.7 For Emission Point AA-002, 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 63.6604(a); Subpart ZZZZ)

3.B.8 For Emission Point AA-002, the permittee shall comply with one of the following operating standards **if** an engine is not equipped with a closed crankcase ventilation system:

(a) Install a closed crankcase ventilation system that prevents crankcase emissions from being emitted to the atmosphere; or

(b) Install an open crankcase filtrations emission control system that reduces emissions from the crankcase by filtering the exhaust stream to remove oil mist, particulates, and metals.

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

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 particulate matter (PM) from any 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-002	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 During Start-Up ≤ 30 Minutes for a Start-Up Period
	40 CFR 63.6625(g); Subpart ZZZZ	3.D.3		Follow Maintenance Requirements for Crankshaft Ventilation System

3.D.1 For Emission Point AA-002, the permittee shall operate and maintain each engine (including associated air pollution control equipment and monitor equipment) in a manner consistent with safety and good air pollution control practices for minimizing emissions at all times.

The general duty to minimize emissions does not require the permittee to make you to make any further efforts to reduce emissions if levels required by Subpart ZZZZ have been achieved. 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 an engine.

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

3.D.2 For Emission Point AA-002, the permittee shall minimize the time spent at idle during engine start-up and minimize the 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 non-startup emission limitations apply.

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

3.D.3 For Emission Point AA-002, the permittee shall follow the manufacturer specified maintenance requirements for operating and maintaining the applicable crankshaft system (closed or open) and for replacing the crankshaft filters. However, the permittee may request the MDEQ to approve different maintenance requirements that are as protective as manufacturer requirements.

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

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:

(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 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, the monitoring, testing, recordkeeping, and reporting requirements of Section 5 herein supersede the requirements of any preceding permit to construct and/or operate upon permit issuance.

(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-001 AA-002 AA-012	11 Miss. Admin. Code Pt. 2, R. 6.3.A.(3)(a)(2).	5.B.1	NO_X CO VOCs SO_2	Calculate Emissions (Monthly and Rolling 12-Month Totals)
AA-001 AA-012	11 Miss. Admin. Code Pt. 2, R. 6.3.A.(3)(a)(2).	5.B.2	NO_X CO VOCs SO_2	Maintain Records on Each Jet Engine Test
AA-002	40 CFR 63.6615, 63.6620(a), (b), (d), (e), and (i), 63.6640(b), Table 3 (Item 4), and Table 4 (Item 1 or 3); Subpart ZZZZ	5.B.3	CO	Conduct Routine Performance Testing Calculate the Final Applicable Result
	40 CFR 63.225(b); Subpart ZZZZ 11 Miss. Admin. Code Pt. 2, R. 2.2.B(11).	5.B.4	Catalyst Inlet Temperature	Operate and Maintain a CPMS Maintain a Site-Specific Monitoring Plan
	40 CFR 63.6635; Subpart ZZZZ	5.B.5		Monitoring / Data Collection Requirements
	40 CFR 63.6640(a), 63.6655(d), and Table 6 (Item 10); Subpart ZZZZ	5.B.6		Demonstrate Continuous Compliance
	40 CFR 63.6655(a) – (b); Subpart ZZZZ	5.B.7	CO	Recordkeeping Requirements
	11 Miss. Admin. Code Pt. 2, R. 6.3.A.(3)(a)(2).	5.B.8	Diesel Fuel	Monitor Usage Monthly

5.B.1 For Emission Points AA-001, AA-002, and AA-012, the permittee shall demonstrate compliance with the emission limitations specified in Condition 3.B.1 by calculating and recording the emission of NO_X, CO, VOCs, and SO_2 in tons based on both a monthly and rolling 12-month total basis.

Unless otherwise specified herein, the permittee shall include all reference data used to validate calculated emissions from each source (e.g. operational data, applicable emission factors, engineering judgement determinations, performance testing results, etc.).

Additionally, for Emission Points AA-001 and AA-012, the permittee shall use applicable factors from the International Civil Aviation Organization (ICAO) emissions

data bank (or its equivalency).

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

5.B.2 For Emission Point AA-001 and AA-012, the permittee shall maintain documentation that details the following information on a monthly basis:

(a) The number of tests conducted for each engine type and the corresponding engine load; and

(b) The amount and type of jet fuel used for the tests conducted on each engine type.

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

5.B.3 For Emission Point AA-002, the permittee shall demonstrate compliance with one of the CO emission standards specified in Condition 3.B.5 by conducting routine performance testing on the engine either every 8,760 hours of operation or once every three (3) years (whichever comes first).

All performance testing shall be conducted in accordance with the procedures specified in either Item 1 or Item 3 in Table 4 of Subpart ZZZZ (contingent upon the specified CO emission standard). Additionally, any performance test shall be conducted under such conditions as the MDEQ specifies to the permittee based on representative performance of the engine (i.e. performance based on normal operating conditions). 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), and (i), 63.6640(b), Table 3 (Item 4), and Table 4 (Item 1 or 3); Subpart ZZZZ)

5.B.4 For Emission Point AA-002, 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 plan on-site.

(Ref.: 40 CFR 63.6625(b); Subpart ZZZZ and 11 Miss. Admin. Code Pt. 2, R. 2.2.B(11).)

5.B.5 For Emission Point AA-002, the permittee shall monitor and collect the catalyst inlet temperature and pressure drop at all times an engine is operating, except for periods of monitor malfunction, associated repair, required performance evaluation, and required quality assurance / control activities.

For the purpose of this permit, 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.6 For Emission Point AA-002, the permittee must demonstrate continuous compliance with the applicable CO emission standard specified in Condition 3.B.5 and the operating limitations specified in Condition 3.B.6 by monitoring the catalyst pressure drop and the catalyst inlet temperature in accordance with the following requirements:

(a) *For the catalyst inlet temperature*: Reduce and maintain the data collected in accordance with Conditions 5.B.3 and 5.B.4 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.7 For Emission Point AA-002, 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 any 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 pollutions 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) – (b); Subpart ZZZZ)

5.B.8 For Emission Point AA-002, the permittee shall monitor and record the amount of diesel fuel combusted on a monthly basis.

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

C. SPECIFIC REPORTING REQUIREMENTS

Emission Point(s)	Applicable Requirement	Condition Number	Pollutant / Parameter Monitored	Reporting Requirement
AA-100	11 Miss. Admin. Code Pt. 2, R. 6.3.A.(3)(c)(1).	5.C.1	NO_X CO VOCs SO_2	Submit a Semi-Annual Monitoring Report
AA-002	40 CFR 63.6645(g); Subpart ZZZZ 11 Miss. Admin. Code Pt. 2, R. 2.6.B(5).	5.C.2	CO	Submit Notice of Intent for Performance Test Submit 10-Day Notification on Performance Testing Event
	40 CFR 63.6615(i) and 63.6645(h)(2); Subpart ZZZZ	5.C.3		Submit Performance Results
	40 CFR 63.6650(a), (c), (e), and Table 7 (Item 1)	5.C.4		Submit a Semi-Annual Compliance Report

5.C.1 For Emission Point AA-100 (Facility-Wide), the permittee shall submit a semi-annual monitoring report in accordance with Condition 5.A.4 that contains the following information:

(a) The number of tests conducted on each engine type as well as the engine load on both a monthly and rolling 12-month total basis.

(b) The total amount of diesel fuel combusted in the non-emergency engine on both a monthly basis and rolling 12-month total basis.

(c) The total emission of NO_X. CO, SO_2, and VOCs in tons on both a monthly and rolling 12-month total basis as well as all supporting information to calculate emissions.

(d) The total amount (and type) of jet fuel combusted in both a monthly and rolling 12-month total basis and

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

5.C.2 For Emission Point AA-002, the permittee shall submit a Notification of Intent to conduct a performance test required by Condition 5.B.2 at least 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.

The permittee shall notify the MDEQ in writing at least (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 Point AA-002, the permittee shall submit the results of a performance test required by Condition 5.B.2 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: the average percent load determination, the engine model number, the engine manufacturer, the year of purchase, the manufacturer's site-rated brake horsepower, the ambient temperature, 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 (such as flow meters, kilowatt meters, beta analyzers, stain gauges, etc.) are used, the model number of the measurement device and an estimate of its accurate 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-002, the permittee shall submit a semi-annual compliance report in accordance Condition 5.A.4 that contains the following information (as applicable):

(a) The company name and address;

(b) A statement by a Responsible Official, with that official's name, title, and signature, certifying the accuracy of the content of the report;

(c) 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 and which 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.

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

(e) 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;

(f) If there was a deviation from an applicable CO emission standard, an operating limitation, 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; and

(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 DEQ shall provide a copy upon request from the permittee.

7.1 If the permittee produces, transforms, destroys, imports or exports a controlled substance or imports or exports a controlled product, the permittee shall comply with the applicable requirements of 40 CFR Part 82, Subpart A – Production and Consumption Controls.

7.2 If the permittee performs service on a motor vehicle for consideration when this service involves the refrigerant in the motor vehicle air conditioner (MVAC), the permittee shall comply with the applicable requirements of 40 CFR Part 82, Subpart B – Servicing of Motor Vehicle Air Conditioners.

7.3 The permittee shall comply with the applicable requirements of 40 CFR Part 82, Subpart E – The Labeling of Products Using Ozone-Depleting Substances, for the following containers and products:

(a) All containers in which a class I or class II substance is stored or transported;

(b) All products containing a class I substance; and

(c) All products directly manufactured with a process that uses a class I substance, unless otherwise exempted by this subpart or, unless EPA determines for a particular product that there are no substitute products or manufacturing processes for such product that do not rely on the use of a class I substance, that reduce overall risk to human health and the environment, and that are currently or potentially available. If the EPA makes such a determination for a particular product, then the requirements of this subpart are effective for such product no later than January 1, 2015.

7.4 If the permittee performs any of the following activities, the permittee shall comply with the applicable requirements of 40 CFR Part 82, Subpart F – Recycling and Emissions Reduction:

(a) Servicing, maintaining, or repairing appliances 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
gr/dscf	Grains Per Dry Standard Cubic Foot
HP	Horsepower
HAP	Hazardous Air Pollutant
lb/hr	Pounds per Hour
M or K	Thousand
MACT	Maximum Achievable Control Technology
MM	Million
MMBTUH	Million British Thermal Units per Hour
NA	Not Applicable
NAAQS	National Ambient Air Quality Standards
NESHAP	National Emissions Standards for Hazardous Air Pollutants, 40 CFR 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	Startup, 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