STATE OF MISSISSIPPI
AIR POLLUTION CONTROL
TITLE V PERMIT

TO OPERATE AIR EMISSIONS EQUIPMENT

THIS CERTIFIES THAT

Rolls Royce North America, Inc.
Rolls Royce Center of Excellence
John C. Stennis Space Center
Stennis Space Center, Mississippi 39529
Hancock County

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

Permit Issued: _____

Effective Date: As specified herein.

MISSISSIPPI ENVIRONMENTAL QUALITY PERMIT BOARD

_____

AUTHORIZED SIGNATURE
MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY

Expires: **Permit No.: 1000-00050**

Draft/Proposed

TABLE OF CONTENTS

SECTION 1. GENERAL CONDITIONS

1.1 The permittee must comply with all conditions of this permit. Any permit noncompliance constitutes a violation of the Federal Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.A(6)(a).)

1.2 It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.A(6)(b).)

1.3 This permit and/or any part thereof may be modified, revoked, reopened, and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.A(6)(c).)

1.4 (a) This permit shall be reopened and revised under any of the following circumstances:

(1) Additional applicable requirements under the Federal Act become applicable to a major Title V source with a remaining permit term of 3 or more years. Such a reopening shall be completed no later than 18 months after promulgation of the applicable requirement. No such reopening is required if the effective date of the requirement is later than the date on which the permit is due to expire, unless the original permit or any of its terms and conditions has been extended.

(2) Additional requirements (including excess emissions requirements) become applicable to an affected source under the acid rain program. Upon approval by the Administrator, excess emissions offset plans shall be deemed to be incorporated into the permit.

(3) The Permit Board or EPA determines that the permit contains a material mistake or that inaccurate statements were made in establishing the emission standards or other terms or conditions of the permit.

(4) The Administrator or the Permit Board determines that the permit must be revised or revoked to assure compliance with the applicable requirements.

(b) Proceedings to reopen and issue this permit shall follow the same procedures as apply to initial permit issuance and shall only affect those parts of the permit for which cause to reopen exists. Such reopening shall be made as expeditiously as

practicable.

(c) Reopenings shall not be initiated before a notice of such intent is provided to the Title V source by the DEQ at least 30 days in advance of the date that the permit is to be reopened, except that the Permit Board may provide a shorter time period in the case of an emergency.

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

1.5 The permittee shall furnish to the DEQ within a reasonable time any information the DEQ may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to the DEQ copies of records required to be kept by the permittee or, for information to be confidential, the permittee shall furnish such records to DEQ along with a claim of confidentiality. The permittee may furnish such records directly to the Administrator along with a claim of confidentiality. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.A(6)(e).)

1.6 This permit does not convey any property rights of any sort, or any exclusive privilege. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.A(6)(d).)

1.7 The provisions of this permit are severable. If any provision of this permit, or the application of any provision of this permit to any circumstances, is challenged or held invalid, the validity of the remaining permit provisions and/or portions thereof or their application to other persons or sets of circumstances, shall not be affected thereby. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.A(5).)

1.8 The permittee shall pay to the DEQ an annual permit fee. The amount of fee shall be determined each year based on the provisions of regulated pollutants for fee purposes and the fee schedule specified in the Commission on Environmental Quality's order which shall be issued in accordance with the procedure outlined in Regulation 11 Miss. Admin. Code Pt. 2, Ch. 6.)

(a) For purposes of fee assessment and collection, the permittee shall elect for actual or allowable emissions to be used in determining the annual quantity of emissions unless the Commission determines by order that the method chosen by the applicant for calculating actual emissions fails to reasonably represent actual emissions. Actual emissions shall be calculated using emission monitoring data or direct emissions measurements for the pollutant(s); mass balance calculations such as the amounts of the pollutant(s) entering and leaving process equipment and where mass balance calculations can be supported by direct measurement of process parameters, such direct measurement data shall be supplied; published emission factors such as those relating release quantities to throughput or equipment type (e.g., air emission factors); or other approaches such as engineering calculations (e.g., estimating

volatilization using published mathematical formulas) or best engineering judgments where such judgments are derived from process and/or emission data which supports the estimates of maximum actual emission. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.6.A(2).)

(b) If the Commission determines that there is not sufficient information available on a facility's emissions, the determination of the fee shall be based upon the permitted allowable emissions until such time as an adequate determination of actual emissions is made. Such determination may be made anytime within one year of the submittal of actual emissions data by the permittee. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.6.A(2).) If at any time within the year the Commission determines that the information submitted by the permittee on actual emissions is insufficient or incorrect, the permittee will be notified of the deficiencies and the adjusted fee schedule. Past due fees from the adjusted fee schedule will be paid on the next scheduled quarterly payment time. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.6.D(2).)

(c) The fee shall be due September 1 of each year. By July 1 of each year the permittee shall submit an inventory of emissions for the previous year on which the fee is to be assessed. The permittee may elect a quarterly payment method of four (4) equal payments; notification of the election of quarterly payments must be made to the DEQ by the first payment date of September 1. The permittee shall be liable for penalty as prescribed by State Law for failure to pay the fee or quarterly portion thereof by the date due. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.6.D.)

(d) If in disagreement with the calculation or applicability of the Title V permit fee, the permittee may petition the Commission in writing for a hearing in accordance with State Law. Any disputed portion of the fee for which a hearing has been requested will not incur any penalty or interest from and after the receipt by the Commission of the hearing petition. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.6.C.)

1.9 No permit revision shall be required under any approved economic incentives, marketable permits, emissions trading and other similar programs or processes for changes that are provided for in this permit. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.A(8).)

1.10 Any document required by this permit to be submitted to the DEQ shall contain a certification by a responsible official that states that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.2.E.)

1.11 The permittee shall allow the DEQ, or an authorized representative, upon the presentation of credentials and other documents as may be required by law, to perform the following:

(a) enter upon the permittee's premises where a Title V source is located or emissions-related activity is conducted, or where records must be kept under the conditions of this permit;

(b) have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;

(c) inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit; and

(d) as authorized by the Federal Act, sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with the permit or applicable requirements. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.C(2).)

1.12 Except as otherwise specified or limited herein, the permittee shall have necessary sampling ports and ease of accessibility for any new air pollution control equipment, obtained after May 8, 1970, and vented to the atmosphere. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 1.3.I(1).)

1.13 Except as otherwise specified or limited herein, the permittee shall provide the necessary sampling ports and ease of accessibility when deemed necessary by the Permit Board for air pollution control equipment that was in existence prior to May 8, 1970. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 1.3.I(2).)

1.14 Compliance with the conditions of this permit shall be deemed compliance with any applicable requirements as of the date of permit issuance where such applicable requirements are included and are specifically identified in the permit or where the permit contains a determination, or summary thereof, by the Permit Board that requirements specifically identified previously are not applicable to the source. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.F(1).)

1.15 Nothing in this permit shall alter or affect the following:

(a) the provisions of Section 303 of the Federal Act (emergency orders), including the authority of the Administrator under that section;

(b) the liability of an owner or operator of a source for any violation of applicable requirements prior to or at the time of permit issuance;

(c) the applicable requirements of the acid rain program, consistent with Section 408(a) of the Federal Act.

(d) the ability of EPA to obtain information from a source pursuant to Section 114 of the Federal Act. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.F(2).)

1.16 The permittee shall comply with the requirement to register a Risk Management Plan if permittee's facility is required pursuant to Section 112(r) of the Act to register such a plan. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.H.)

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

1.18 The permittee is authorized to make changes within their facility without requiring a permit revision (ref: Section 502(b)(10) of the Act) if:

(a) the changes are not modifications under any provision of Title I of the Act;

(b) the changes do not exceed the emissions allowable under this permit;

(c) the permittee provides the Administrator and the Department with written notification in advance of the proposed changes (at least seven (7) days, or such other time frame as provided in other regulations for emergencies) and the notification includes:

(1) a brief description of the change(s),

(2) the date on which the change will occur,

(3) any change in emissions, and

(4) any permit term or condition that is no longer applicable as a result of the change;

(d) the permit shield shall not apply to any Section 502(b)(10) change. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.4.F(1).)

1.19 Should the Executive Director of the Mississippi Department of Environmental Quality declare an Air Pollution Emergency Episode, the permittee will be required to operate in

accordance with the permittee's previously approved Emissions Reduction Schedule or, in the absence of an approved schedule, with the appropriate requirements specified in 11 Miss. Admin. Code Pt. 2, Ch. 3., "Regulations for the Prevention of Air Pollution Emergency Episodes" for the level of emergency declared. (Ref.: 11 Miss. Admin. Code Pt. 2, Ch. 3.)

1.20 Except as otherwise provided herein, a modification of the facility may require a Permit to Construct in accordance with the provisions of Regulations 11 Miss. Admin. Code Pt. 2, Ch. 2., "Permit Regulations for the Construction and/or Operation of Air Emissions Equipment", and may require modification of this permit in accordance with Regulations 11 Miss. Admin. Code Pt. 2, Ch. 6., "Air Emissions Operating Permit Regulations for the Purposes of Title V of the Federal Clean Air Act". Modification is defined as "[a]ny physical change in or change in the method of operation of a facility which increases the actual emissions or the potential uncontrolled emissions of any air pollutant subject to regulation under the Federal Act emitted into the atmosphere by that facility or which results in the emission of any air pollutant subject to regulation under the Federal Act into the atmosphere not previously emitted. A physical change or change in the method of operation shall not include:

(a) routine maintenance, repair, and replacement;

(b) use of an alternative fuel or raw material by reason of an order under Sections 2 (a) and (b) of the Federal Energy Supply and Environmental Coordination Act of 1974 (or any superseding legislation) or by reason of a natural gas curtailment plan pursuant to the Federal Power Act;

(c) use of an alternative fuel by reason of an order or rule under Section 125 of the Federal Act;

(d) use of an alternative fuel or raw material by a stationary source which:

(1) the source was capable of accommodating before January 6, 1975, unless such change would be prohibited under any federally enforceable permit condition which was established after January 6, 1975, pursuant to 40 CFR 52.21 or under regulations approved pursuant to 40 CFR 51.166; or

(2) the source is approved to use under any permit issued under 40 CFR 52.21 or under regulations approved pursuant to 40 CFR 51.166;

(e) an increase in the hours of operation or in the production rate unless such change would be prohibited under any federally enforceable permit condition which was established after January 6, 1975, pursuant to 40 CFR 52.21 or under regulations approved pursuant to 40 CFR Subpart I or 40 CFR 51.166; or

(f) any change in ownership of the stationary source."

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

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

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

(a) Open burning without a forced-draft air system must not occur within 500 yards of an occupied dwelling.

(b) Open burning utilizing a forced-draft air system on all fires to improve the combustion rate and reduce smoke may be done within 500 yards of but not within 50 yards of an occupied dwelling.

(c) Burning must not occur within 500 yards of commercial airport property, private air fields, or marked off-runway aircraft approach corridors unless written approval to conduct burning is secured from the proper airport authority, owner or operator. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 1.3.G.)

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

(a) Except as otherwise specified herein, an "emergency" means any situation arising from sudden and reasonably unforeseeable events beyond the control of the source, including acts of God, which situation requires immediate corrective action to restore normal operation, and that causes the source to exceed a technology-based emission limitation under the permit, due to unavoidable increases in emissions attributable to the emergency. An emergency shall not include noncompliance to the extent caused by improperly designed equipment, lack of preventative maintenance, careless or

improper operation, or operator error.

(b) An emergency constitutes an affirmative defense to an action brought for noncompliance with such technology-based emission limitations if the conditions specified in (c) following are met.

(c) The affirmative defense of emergency shall be demonstrated through properly signed contemporaneous operating logs, or other relevant evidence that include information as follows:

(1) an emergency occurred and that the permittee can identify the cause(s) of the emergency;

(2) the permitted facility was at the time being properly operated;

(3) during the period of the emergency the permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards, or other requirements in the permit; and

(4) the permittee submitted notice of the emergency to the DEQ within 2 working days of the time when emission limitations were exceeded due to the emergency. This notice must contain a description of the emergency, any steps taken to mitigate emissions, and corrective actions taken.

(d) In any enforcement proceeding, the permittee seeking to establish the occurrence of an emergency has the burden of proof.

(e) This provision is in addition to any emergency or upset provision contained in any applicable requirement specified elsewhere herein. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.G.)

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

(a) Upsets

(1) For an upset defined in 11 Miss. Admin. Code Pt. 2, R. 1.2., the Commission may pursue an enforcement action for noncompliance with an emission standard or other requirement of an applicable rule, regulation, or permit. In determining whether to pursue enforcement action, and/or the appropriate enforcement action to take, the Commission may consider whether the source has demonstrated through properly signed

contemporaneous operating logs or other relevant evidence the following:

(i) An upset occurred and that the source can identify the cause(s) of the upset;

(ii) The source was at the time being properly operated;

(iii) During the upset the source took all reasonable steps to minimize levels of emissions that exceeded the emission standard or other requirement of an applicable rule, regulation, or permit;

(iv) That within 5 working days of the time the upset began, the source submitted a written report to the Department describing the upset, the steps taken to mitigate excess emissions or any other noncompliance, and the corrective actions taken and;

(v) That as soon as practicable but no later than 24 hours of becoming aware of an upset that caused an immediate adverse impact to human health or the environment beyond the source boundary or caused a general nuisance to the public, the source provided notification to the Department.

(2) In any enforcement proceeding by the Commission, the source seeking to establish the occurrence of an upset has the burden of proof.

(3) This provision is in addition to any upset provision contained in any applicable requirement.

(4) These upset provisions apply only to enforcement actions by the Commission and are not intended to prohibit EPA or third party enforcement actions.

(b) Startups and Shutdowns (as defined by 11 Miss. Admin. Code Pt. 2, R. 1.2.)

(1) Startups and shutdowns are part of normal source operation. Emission limitations apply during startups and shutdowns unless source specific emission limitations or work practice standards for startups and shutdowns are defined by an applicable rule, regulation, or permit.

(2) Where the source is unable to comply with existing emission limitations established under the State Implementation Plan (SIP) and defined in this regulation, 11 Mississippi Administrative Code, Part 2, Chapter 1, the Department will consider establishing source specific emission limitations or

work practice standards for startups and shutdowns. Source specific emission limitations or work practice standards established for startups and shutdowns are subject to the requirements prescribed in 11 Miss. Admin. Code Pt. 2, R. 1.10.B(2)(a) through (e).

(3) Where an upset as defined in Rule 1.2 occurs during startup or shutdown, see the upset requirements above.

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

SECTION 2. EMISSION POINTS & POLLUTION CONTROL DEVICES

Emission Point	Description
AA-001	Jet Engine Test Stand No. 1
AA-002	2,349 bhp Diesel-Fired, Four-Stroke, Rich-Burn Compression Ignition (CI) Existing Non-emergency Reciprocating Internal Combustion Engine
AA-003	39,600 gallon Above Ground Horizontal Jet Fuel Storage Tank
AA-004	39,600 gallon Above Ground Horizontal Jet Fuel Storage Tank
AA-005	14,410 gallon Above Ground Horizontal Jet Fuel Storage Tank
AA-006	1,000 gallon Above Ground Horizontal Diesel Fuel Storage Tank
AA-008	685 bhp Diesel-Fired, Four-Stroke, Rich-Burn CI New Emergency Reciprocating Internal Combustion Engine
AA-009	39,600 gallon Above Ground Horizontal Jet Fuel Storage Tank
AA-010	600 Gallon Capacity Above Ground Horizontal Storage Tank for Diesel Fuel Storage
AA-012	Jet Engine Test Stand No. 2
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, permit, or allow the emission of smoke from a point source into the open air from any manufacturing, industrial, commercial or waste disposal process which exceeds forty (40) percent opacity subject to the exceptions provided in (a) & (b).

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

(b) Emissions resulting from soot blowing operations shall be permitted provided such emissions do not exceed 60 percent opacity, and provided further that the aggregate duration of such emissions during any twenty-four (24) hour period does not exceed ten (10) minutes per billion BTU gross heating value of fuel in any one hour. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 1.3.A.)

3.A.2 Except as otherwise specified or limited herein, the permittee shall not cause, allow, or permit the discharge into the ambient air from any point source or emissions, any air contaminant of such opacity as to obscure an observer's view to a degree in excess of 40% opacity, equivalent to that provided in Paragraph 3.A.1. This shall not apply to vision obscuration caused by uncombined water droplets. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 1.3.B.)

B. Emission Point Specific Emission Limitations & Standards

Emission Point(s)	Applicable Requirement	Condition Number(s)	Pollutant/ Parameter	Limit/Standard
Facility-Wide	Air Construction Permit issued April 25, 2006, and modified June 27, 2012	3.B.1	NOx	249.0 tpy
			CO	249.0 tpy
			SO_2	249.0 tpy
			VOC	249.0 tpy
AA-001 AA-012	Air Construction Permit issued April 25, 2006, and modified June 27, 2012	3.B.2	Fuel	Must use jet fuel only for engine testing
AA-002	11 Miss. Admin. Code Pt. 2, R. 1.3. D(1)(b)	3.B.3	PM	$E = 0.8808 * I^{-0.1667}$
	40 CFR 63, Subpart ZZZZ	3.B.4	HAPs	Applicability
	40 CFR 63.6603(a) and Item 3 of Table 2d to Subpart ZZZZ	3.B.5	CO	Reduce CO emissions by 70% or more or limit concentration of CO in the engine's exhaust to 23 ppmvd or less at 15% O2
	40 CFR 63.6603(a) and Item 2.a. of Table 2b to Subpart ZZZZ	3.B.6		Pressure drop across catalyst
	40 CFR 63.6603(a) and Item 2.b. of Table 2b to Subpart ZZZZ	3.B.7		Catalyst inlet temperature 450 °F < T < 1350 °F
	40 CFR 63.6604(a) and 40 CFR 80.510(b)(1)-(2)	3.B.8		Max. sulfur content of 15 ppm; and a min. cetane index of 40 or a max. aromatic content of 35% volume.
	40 CFR 63.6605(a)-(b)	3.B.9		Continuous Compliance
	40 CFR 63.6625(g)(2)	3.B.10		Open Crankcase Requirements
	40 CFR 63.6625(h)	3.B.11		Startup
AA-008	40 CFR 63, Subpart ZZZZ	3.B.4	HAPs	Applicability
	40 CFR 60, Subpart IIII	3.B.12	THC/NOx CO PM	Applicability
	40 CFR 60.4202(a)(2); 40 CFR 60.4205(b); 40 CFR 60.4206; and Table 1 to 40 CFR 89.112(a)	3.B.13	NMHC + NOx CO PM	4.0 g/kw-hr 3.5 g/kw-hr 0.2 g/kw-hr
	40 CFR 89.113(a))	3.B.14	Smoke	Opacity Limits

Emission Point(s)	Applicable Requirement	Condition Number(s)	Pollutant/ Parameter	Limit/Standard
AA-008	40 CFR 60.4207(b) and 40 CFR 80.510(b)(1)-(2))	3.B.15	Fuel Content	Max. sulfur content of 15 ppm; and a min. cetane index of 40 or a max. aromatic content of 35% volume.
	40 CFR 60.4209(a))	3.B.16	Hours	Hour Meter
	40 CFR 60.4209(a) and 40 CFR 60.4211(a)(1)-(3)	3.B.17	THC/NOx CO PM	Operating Limitation
	40 CFR 60.4211(c) and (g)(3)	3.B.18	THC/NOx CO PM	Certified Engine
	40 CFR 60.4211(f)(1)-(3)	3.B.19	Hours	Emergency Operating Limitations
	11 Miss. Admin. Code Pt. 2, R. 1.3. D(1)(a)	3.B.20	PM	0.6 lb/MMBTU
	40 CFR 60.4209(a) and 40 CFR 60.4211(g)	3.B.21	Operations	Minimizing emissions

3.B.1 The permittee shall limit facility-wide emissions of NOx, CO, SO2, and VOC, each to 249 tons per year (tpy). The emission limitations were established as Prevention of Significant Deterioration (PSD) avoidance limits in a Federally-Enforceable Permit to Construct (PTC) issued on April 25, 2006, and modified on June 27, 2012. (Ref.: Air Construction Permit issued on April 25, 2006, and modified on June 27, 2012)

3.B.2 For Emission Points AA-001 and AA-012, the permittee is allowed to use jet fuel only for engine testing. (Ref.: Air Construction Permit issued on April 25, 2006)

3.B.3 For Emission Point AA-002, the maximum permissible emission of ash and/or particulate matter shall not exceed an emission rate as determined by the relationship

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

where E is the emission rate in pounds per million BTU per hour heat input and I is the heat input in millions of Btu per hour. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 1.3. D(1)(b))

3.B.4 Emission Points AA-002 and AA-008 are subject to the National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines, 40 CFR Part 63, Subpart ZZZZ.

Emission Point AA-002 is an existing compression ignition (CI) non-emergency engine with a site rating greater than 500 HP that is located at an area source of HAPs.

Emission Point AA-008 is a new CI emergency engine with a site rating greater than 500 HP that is located at an area source of HAPs.

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

3.B.5 For Emission Point AA-002, the permittee shall reduce CO emissions by 70 percent or more or limit the concentration of CO in the engine's exhaust to 23 ppmvd or less at 15 percent O_2. (Ref.: 40 CFR 63.6603(a) and Item 3 of Table 2d to Subpart ZZZZ)

3.B.6 For Emission Point AA-002, the permittee shall maintain the catalyst so that the pressure drop across the catalyst does not change by more than 2 inches of water from the pressure drop across the catalyst that was measured during the initial performance test. (Ref.: 40 CFR 63.6603(a) and Item 2.a. of Table 2b to Subpart ZZZZ)

3.B.7 For Emission Point AA-002, the permittee shall maintain the 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 Item 2.b. of Table 2b to Subpart ZZZZ)

3.B.8 For Emission Point AA-002, the permittee must use diesel fuel with a maximum sulfur content of 15 ppm and a minimum cetane index of 40 or a maximum aromatic content of 35 percent volume. (Ref.: 40 CFR 63.6604(a) and 40 CFR 80.510(b)(1)-(2))

3.B.9 For Emission Point AA-002, the permittee shall, at all times, be in compliance with the applicable requirements of Subpart ZZZZ and operate and maintain the engine, including associated 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 the permittee 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 the source. (Ref.: 40 CFR 63.6605(a)-(b))

3.B.10 For Emission Point AA-002, the open crankcase filtration emission control system must reduce emissions from the crankcase by filtering the exhaust stream to remove oil mist, particulates and metals. The permittee must follow the manufacturer's specified maintenance requirements for operating and maintaining the open crankcase ventilation system and replacing the crankcase filters, or can request the MDEQ to approve different maintenance requirements that are as protective as manufacturer requirements. (Ref: 40 CFR 63.6625(g)(2))

3.B.11 For Emission Point AA-002, the permittee must minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes, after which time the emission standards in Condition 3.B.5 apply. (Ref: 40 CFR 63.6625(h))

3.B.12 For Emission Point AA-008, the permittee is subject to Standards of Performance for Stationary Compression Ignition Internal Combustion Engines in 40 CFR 60, Subpart IIII, and the General Provisions in Subpart A. (Ref.: 40 CFR 60.4200(a)(2)(i))

3.B.13 For Emission Point AA-008, Nitrogen Oxides plus Non-Methane Hydrocarbons (NMHC+NOx) emissions are limited to 4.0 grams per kilowatt-hour (g/kw-hr); Carbon Monoxide (CO) emissions are limited to 3.5 g/kw-hr; and Particulate Matter (PM) emissions are limited to 0.2 g/kw-hr. The permittee must operate and maintain the engine to achieve these emission standards over the entire life of the engine. (Ref: 40 CFR 60.4202(a)(2), 40 CFR 60.4205(b), 40 CFR 60.4206, and Table 1 to 40 CFR 89.112(a))

3.B.14 For Emission Point AA-008, the engine shall be certified to meet the following exhaust opacity limits:

(a) 20 percent during the acceleration mode;

(b) 15 percent during the lugging mode; and

(c) 50 percent during the peaks in either the acceleration or lugging modes.

(Ref: 40 CFR 89.113(a))

3.B.15 For Emission Point AA-008, the permittee shall use diesel fuel with a maximum sulfur content of 15 ppm and a minimum cetane index of 40 or a maximum aromatic content of 35 percent volume. (Ref.: 40 CFR 60.4207(b) and 40 CFR 80.510(b)(1)-(2))

3.B.16 For Emission Point AA-008, the permittee must install a non-resettable hour meter prior to startup of the engine, if one is not already installed. (Ref: 40 CFR 60.4209(a))

3.B.17 For Emission Point AA-008, the permittee must operate and maintain the stationary CI internal combustion engine and control device according to the manufacturer's emission-related written instructions and may change only those emission-related settings that are permitted by the manufacturer, and must meet the requirements contained in Conditions 3.B.13 and 3.B.14. (Ref: 40 CFR 60.4209(a) and 40 CFR 60.4211(a)(1)-(3))

3.B.18 For Emission Point AA-008, the permittee must comply with emissions standards by purchasing an engine certified to the emission standards contained in Conditions 3.B.13 and 3.B.14. The engine must be installed and configured according to the manufacturer's emission-related specifications. If the permittee does not install, configure, operate and maintain the engine according to these specifications or if the permittee changes the emission-related settings in a way not permitted by the manufacturer, the permittee shall demonstrate compliance per 40 CFR 60.4211(g)(3). (Ref. 40 CFR 4211(c) and (g)(3))

3.B.19 For Emission Point AA-008, the permittee shall operate the emergency engine according to the requirements below:

(a) There is no limit on the use of the engine during emergency situations.

(b) The permittee may operate the engine for maintenance checks and readiness testing for a maximum of 100 hours per calendar year provided that the tests are recommended by federal, state or local government, the manufacturer, the vendor, the regional transmission organization or equivalent balancing authority and transmission operator, or the insurance company associated with the engine. The permittee may petition the MDEQ for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the permittee maintains records indicating that federal, state, or local standards require maintenance and testing of the engine for more than 100 hours per calendar year..

(c) The engine may be operated for up to 50 hours per calendar year in non-emergency situations. The 50 hours of operation in non-emergency situations are counted as part of the 100 hours per calendar year for maintenance and testing and emergency demand response provided in paragraph (b). The 50 hours per 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.

If the emergency engine is not operated according to the requirements in (a) - (c) above, the engine will not be considered an emergency engine under this subpart and will need to meet any applicable requirements for non-emergency engines. (Ref.: 40 CFR 60.4211(f)(1)-(3))

3.B.20 For Emission Point AA-008, the maximum permissible emission of ash and/or particulate matter shall not exceed 0.6 pounds per million BTU per hour heat input. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 1.3. D(1)(a))

3.B.21 For Emission Point AA-008, if the engine and control device is not installed, configured, operated, and maintained according to the manufacturer's emission-related written instructions, or if the emission-related settings are changed in a way that is not permitted by the manufacturer, the permittee must demonstrate compliance by keeping a maintenance plan and records of conducted maintenance and must, to the extent practicable, maintain and operate the engine in a manner consistent with good air pollution control practice for minimizing emissions. In addition, the permittee must conduct an initial performance test to demonstrate compliance with the applicable emission standards within 1 year of startup, or within 1 year after an engine and control device is no longer installed, configured, operated, and maintained in accordance with the manufacturer's emission-related written instructions, or within 1 year after the emission-related settings are changed in a way that is not permitted by the manufacturer. Subsequent performance testing must be conducted every 8,760 hours of engine operation or 3 years, whichever comes first, thereafter to demonstrate compliance with the applicable emission standards. (Ref: 40 CFR 60.4209(a) and 40 CFR 60.4211(g))

C. Insignificant and Trivial Activity Emission Limitations & Standards

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

3.C.1 The maximum permissible emission of ash and/or particulate matter from fossil fuel burning installations of less than 10 million BTU per hour heat input shall not exceed 0.6 pounds per million BTU per hour heat input. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 1.3.D(1)(a).)

3.C.2 The maximum discharge of sulfur oxides from any fuel burning installation in which the fuel is burned primarily to produce heat or power by indirect heat transfer shall not exceed 4.8 pounds (measured as sulfur dioxide) per million BTU heat input. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 1.4.A(1).)

There are no other requirements applicable to the insignificant activities listed in the source's Title V permit application.

SECTION 4. COMPLIANCE SCHEDULE

4.1 Unless otherwise specified herein, the permittee shall be in compliance with all requirements contained herein upon issuance of this permit.

4.2 Except as otherwise specified herein, the permittee shall submit to the Permit Board and to the Administrator of EPA Region IV a certification of compliance with permit terms and conditions, including emission limitations, standards, or work practices, by January 31 for the preceding calendar year. Each compliance certification shall include the following:

(a) the identification of each term or condition of the permit that is the basis of the certification;

(b) the compliance status;

(c) whether compliance was continuous or intermittent;

(d) the method(s) used for determining the compliance status of the source, currently and over the applicable reporting period;

(e) such other facts as may be specified as pertinent in specific conditions elsewhere in this permit. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.C(5)(a), (c), & (d).)

SECTION 5. MONITORING, RECORDKEEPING & REPORTING REQUIREMENTS

A. General Monitoring, Recordkeeping and Reporting Requirements

5.A.1 The permittee shall install, maintain, and operate equipment and/or institute procedures as necessary to perform the monitoring and recordkeeping specified below.

5.A.2 In addition to the recordkeeping specified below, the permittee shall include with all records of required monitoring information the following:

(a) the date, place as defined in the permit, and time of sampling or measurements;

(b) the date(s) analyses were performed;

(c) the company or entity that performed the analyses;

(d) the analytical techniques or methods used;

(e) the results of such analyses; and

(f) the operating conditions existing at the time of sampling or measurement. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)(b)(1).)

5.A.3 Except where a longer duration is specified in an applicable requirement, the permittee shall retain records of all required monitoring data and support information for a period of at least five (5) years from the date of the monitoring sample, measurement, report, or application. Support information includes all calibration and maintenance records, all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by the permit. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)(b)(2).)

5.A.4 Except as otherwise specified herein, the permittee shall submit reports of any required monitoring by July 31 and January 31 for the preceding six-month period. All instances of deviations from permit requirements must be clearly identified in such reports and all required reports must be certified by a responsible official consistent with 11 Miss. Admin. Code Pt. 2, R. 6.2.E. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)(c)(1).)

5.A.5 Except as otherwise specified herein, the permittee shall report all deviations from permit requirements, including those attributable to upsets, the probable cause of such deviations, and any corrective actions or preventive measures taken. Said report shall be made within five (5) days of the time the deviation began. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)(c)(2).)

5.A.6 Except as otherwise specified herein, the permittee shall perform emissions sampling and analysis in accordance with EPA Test Methods and with any continuous emission monitoring requirements, if applicable. All test methods shall be those versions or their equivalents approved by the DEQ and the EPA.

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

B. Specific Monitoring and Recordkeeping Requirements

Emission Point(s)	Applicable Requirement	Condition Number	Pollutant/Parameter Monitored	Monitoring/Recordkeeping Requirement
AA-001 AA-012	Air Construction Permit issued April 25, 2006, and modified June 27, 2012	5.B.1	NOx CO VOC SO2	Maintain records of the following for each engine test: engine type and load, amount of fuel and fuel type used, and the calculated emissions.
AA-002	40 CFR 63.6615, 40 CFR 63.6640(a), Item 4 of Table 3 to Subpart ZZZZ, and Item 11.a.i. of Table 6 to Subpart ZZZZ	5.B.2	CO	Conduct performance stacks tests, triennially, or every 8,760 hours of operations, whichever comes first.
	40 CFR 63.6612(a) and Item 3 of Table 4 to Subpart ZZZZ	5.B.3	CO	Subsequent performance stacks test requirements
	40 CFR 63.6635(a)-(c)	5.B.4	CO	Monitoring and data collection
	40 CFR 63.6640(a)	5.B.5	CO	Continuous Compliance
	40 CFR 63.6655(a)	5.B.6	CO	Keep records of notifications, reports, malfunctions, performance tests, maintenance, and corrective actions.
	40 CFR 63.6655(d)	5.B.7	CO	Keep records of continuous compliance
	40 CFR 63.6655(e)(3)	5.B.8	CO	Keep records of maintenance conducted
	40 CFR 63.6660	5.B.9	CO	Keep records for five years
	40 CFR 63.6665 and Table 8 of Subpart ZZZZ	5.B.10	CO	General Provisions
AA-008	40 CFR 60.4214(c) and Air Construction Permit issued April 25, 2006, and modified June 27, 2012	5.B.11	NMHC + NOx CO PM	Keep records of notifications, monthly and rolling 12-month operations, fuel, maintenance, and manufacturer's documentation and emissions compliance

5.B.1 For Emissions Points AA-001 and AA-012, the permittee shall maintain records of the following information:

(a) The number of tests for each engine type, each engine load, and the amount and type of fuel used for each engine type on a monthly basis and for each consecutive 12-month period.

(b) The amount of fuel (and fuel type) used by the generator(s) on a monthly basis and for each consecutive 12-month period.

(c) The total emission rates in tons/year for NOx, CO, SO2, and VOC from the engine test(s) and the generator(s) on a monthly basis and for each consecutive 12-month period.

(Ref.: Air Construction Permit issued April 25, 2006, and modified June 27, 2012)

5.B.2 For Emission Point AA-002, the permittee shall conduct subsequent performance tests every 8,760 hours or 3 years, whichever comes first, to demonstrate that the engine is meeting the applicable CO limit from Condition 3.B.5. (Ref.: 40 CFR 63.6615, 40 CFR 63.6640(a), Item 4 of Table 3 to Subpart ZZZZ, and Item 11.a.i. of Table 6 to Subpart ZZZZ)

5.B.3 For Emission Point AA-002, each CO performance test must be conducted according to the following requirements:

(a) The sampling port location and the number/location of traverse points at the exhaust of the stationary RICE must be selected and the O2 concentration of the stationary RICE exhaust at the sampling port location determined using Method 3 or 3A or 3B of 40 CFR part 60, appendix A-2, or ASTM Method D6522-00 (Reapproved 2005) (heated probe not necessary)

(1) For formaldehyde, CO, O2, and moisture measurement, ducts ≤6 inches in diameter may be sampled at a single point located at the duct centroid and ducts >6 and ≤12 inches in diameter may be sampled at 3 traverse points located at 16.7, 50.0, and 83.3% of the measurement line (`3-point long line'). If the duct is >12 inches in diameter and the sampling port location meets the two and half-diameter criterion of Section 11.1.1 of Method 1 of 40 CFR part 60, appendix A, the duct may be sampled at `3-point long line'; otherwise, conduct the stratification testing and select sampling points according to Section 8.1.2 of Method 7E of 40 CFR part 60, appendix A. If using a control device, the sampling site must be located at the outlet of the control device.

(2) Measurements to determine O2 concentration must be made at the same time and location as the measurements for formaldehyde or CO concentration.

(b) The moisture content of the stationary RICE exhaust at the sampling port location must be measured using Method 4 of 40 CFR part 60, appendix A-3, or Method 320 of 40 CFR part 63, appendix A, or ASTM D 6348-03. Measurements to determine moisture content must be made at the same time and location as the measurements for formaldehyde or CO concentration.

(c) The formaldehyde at the exhaust of the stationary RICE must be measured using Method 320 or 323 of 40 CFR part 63, appendix A; or ASTM D6348-03[a], provided

in ASTM D6348-03 Annex A5 (Analyte Spiking Technique), the percent R must be greater than or equal to 70 and less than or equal to 130, or the CO at the exhaust of the stationary RICE must be measured using Method 10 of 40 CFR part 60, appendix A-4, ASTM Method D6522-00 (2005)[ac], Method 320 of 40 CFR part 63, appendix A, or ASTM D6348-03;

(i) Formaldehyde concentration must be at 15 percent O_2, dry basis. Results of this test consist of the average of the three 1-hour or longer runs.

(ii) CO concentration must be at 15 percent O_2, dry basis. Results of this test consist of the average of the three 1-hour or longer runs

(Ref.: 40 CFR 63.6612(a) and Item 3 of Table 4 to Subpart ZZZZ)

5.B.4 For Emission Point AA-002, the permittee must comply with emission and operating limitations and must monitor and collect data according to the following:

(a) Except for monitor malfunctions, associated repairs, required performance evaluations, and required quality assurance or control activities, the permittee must monitor continuously at all times that the engine is operating. A monitoring malfunction is any sudden, infrequent, not reasonably preventable failure of the monitoring to provide valid data. Monitoring failures that are caused in part by poor maintenance or careless operation are not malfunctions.

(b) The permittee may not use data recorded during monitoring malfunctions, associated repairs, and required quality assurance or control activities in data averages and calculations used to report emission or operating levels. The permittee must, however, use all the valid data collected during all other periods.

(Ref: 40 CFR 63.6635(a)-(c))

5.B.5 For Emission Point AA-002, the permittee must demonstrate continuous compliance with each emission limitation, operating limitation, and other requirements in Tables 2b and Table 2d to Subpart ZZZZ that apply to the engine according to methods specified in Table 6 to Subpart ZZZZ. (Ref: 40 CFR 63.6640(a))

5.B.6 For Emission Point AA-002, the permittee must keep the following records:

(a) A copy of each notification and report that is submitted to comply with this 40 CFR 63, subpart ZZZZ, including all documentation supporting any Initial Notification or Notification of Compliance Status that is submitted, according to the requirement in §63.10(b)(2)(xiv).

(b) Records of the occurrence and duration of each malfunction of operation (*i.e.,* process equipment) or the air pollution control and monitoring equipment.

(c) Records of performance tests and performance evaluations as required in §63.10(b)(2)(viii).

(d) Records of all required maintenance performed on the air pollution control and monitoring equipment.

(e) Records of actions taken during periods of malfunction to minimize emissions in accordance with Condition 3.B.9, including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation.

(Ref: 40 CFR 63.6655(a)(1)-(5))

5.B.7 For Emission Point AA-002, the permittee must keep the records required in Table 6 of this subpart to show continuous compliance with each emission or operating limitation that applies to the engine. (Ref: 40 CFR 63.6655(d))

5.B.8 For Emission Point AA-002, the permittee must keep records of the maintenance conducted on the stationary RICE in order to demonstrate that the stationary RICE and after-treatment control device (if any) was operated and maintained according to the permittee's own maintenance plan. (Ref: 40 CFR 63.6655(e)(3))

5.B.9 For Emission Point AA-002, records must be kept in a form suitable and readily available for expeditious review according to §63.10(b)(1). Each record must be kept for 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record. Each record must be readily accessible in hard copy or electronic form for at least 5 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to §63.10(b)(1). (Ref: 40 CFR 63.6660)

5.B.10 For Emission Point AA-002, the permittee is subject to the applicable General Provisions in Table 8 to the Subpart ZZZZ Tab. (Ref: 40 CFR 63.6665)

5.B.11 For Emission Point AA-008, the permittee must keep the following records:

(a) If the stationary CI internal combustion engine is equipped with a diesel particulate filter, the permittee keep records of any corrective action taken after the backpressure monitor has notified the permittee that the high backpressure limit of the engine is approached;

(b) Type of fuel combusted, including quantity and quality;

(c) Monthly and rolling, consecutive 12-month hours of operations;

(d) Records of all maintenance performed; and

(e) Any manufacturer documentation and emissions test certification(s).

(Ref.: 40 CFR 60.4214(c) and Air Construction Permit issued April 25, 2006, and modified June 27, 2012)

C. Specific Reporting Requirements

Emission Point(s)	Applicable Requirement	Condition Number	Pollutant/Parameter Monitored	Reporting Requirement
Facility-Wide	Air Construction Permit issued April 25, 2006, and modified June 27, 2012	5.C.1	NOx CO VOC SO2	Submit reports of facility-wide monthly and 12-month consecutive emission calculations and reports of emission limit exceedance(s) information.
AA-002	40 CFR 63.6640(b)	5.C.2	CO	Submit reports of deviations
	40 CFR 63.6640(e)	5.C.3	CO	Submit reports of noncompliance with General Provisions
	40 CFR 63.6645(a)(2)	5.C.4	CO	Submit notifications
	40 CFR 63.6645(g)	5.C.5	CO	Submit stack test notifications
	40 CFR 63.6650(a)-(d) and Item 1 to Table 7 of Subpart ZZZZ	5.C.6	CO	Submit semiannual compliance reports
AA-008	40 CFR 60.4214(c) and Air Construction Permit issued April 25, 2006, and modified June 27, 2012	5.C.7	NMHC + NOx CO PM	Submit semiannual compliance reports

5.C.1 The permittee shall provide a summary report of facility-wide emission calculations. The emission calculations shall provide emissions on a monthly basis and a 12-month consecutive (12-month rolling) period for each emission point. A semi-annual report shall be submitted in accordance with Permit Condition 5.A.4 and shall include:

(a) The number of tests for each engine type, each engine load, and the amount and type of fuel used for each engine type on a monthly basis and for each consecutive 12-month period.

(b) The amount of fuel (and fuel type) used by the generator(s) on a monthly basis and for each consecutive 12-month period.

(c) The total emission rates in tons/year for NOX, CO, SO2, and VOC from the engine test(s) and the generator(s) on a monthly basis and for each consecutive 12-month period. The permitee shall use emission factors from the International Civil Aviation Organization (ICAO) emissions data bank or equivalent to verify compliance with the PSD avoidance limitations for NOx, CO, VOC and SO2. The report shall inlcude the loading and emission rate used for each engine test.

(d) The gallons of fuel throughput and the corresponding VOC emissions from the jet fuel storage tanks, and

(e) The gallons of diesel fuel oil throughput and the corresponding VOC emissions from the No. 2 fuel oil storage tanks.

(Ref.: Air Construction Permit issued April 25, 2006, and modified June 27, 2012)

5.C.2 For Emission Point AA-002, the permittee must report each instance in which the applicable emission limitation or operating limitation in Conditions 3.B.5 through 3.B.7 was not met. These instances are deviations from the emission and operating limitations in this subpart. These deviations must be reported according to the requirements in Condition 5.C.7. If the permittee changes a catalyst, the values of the operating parameters measured during the initial performance test must be reestablished. When the permittee reestablishes the values of the operating parameters, a performance test must be conducted to demonstrate that the permittee is meeting the required emission limitation applicable to the engine. (Ref: 40 CFR 63.6640(b))

5.C.3 For Emission Point AA-002, the permittee shall report each instance in which the engine did not meet the applicable requirements in Table 8 to Subpart ZZZZ. (Ref: 40 CFR 63.6640(e))

5.C.4 For Emission Point AA-002, the permittee shall submit all of the notifications in §§63.7(b) and (c), 63.8(e), (f)(4) and (f)(6), 63.9(b) through (e), and (g) and (h) that apply to the engine by the dates specified. (Ref: 40 CFR 63.6645(a)(2))

5.C.5 For Emission Point AA-002, the permittee shall submit a Notification of Intent to conduct a performance test at least 60 days before the performance test is scheduled to begin as required in §63.7(b)(1). (Ref: 40 CFR 63.6645(g))

5.C.6 For Emission Point AA-002, the permittee shall submit semiannual compliance monitoring reports according to the following requirements:

(a) Each subsequent Compliance report must cover the semiannual reporting period from January 1 through June 30 or the semiannual reporting period from July 1 through December 31;

(b) Each subsequent Compliance report must be postmarked or delivered no later than July 31 or January 31, whichever date is the first date following the end of the semiannual reporting period;

(c) Each Compliance report must contain the following information:

(1) Company name and address;

(2) Statement by a responsible official, with that official's name, title, and signature, certifying the accuracy of the content of the report;

(3) Date of report and beginning and ending dates of the reporting period;

(4) If there was a malfunction during the reporting period, the compliance report must include the number, duration, and a brief description for each type of malfunction which occurred during the reporting period and which caused or may have caused any applicable emission limitation to be exceeded. The report must also include a description of actions taken by the permittee during a malfunction of an affected source to minimize emissions in accordance with Condition 3.B.9, including actions taken to correct a malfunction;

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

(6) The total operating time of the stationary RICE at which the deviation occurred during the reporting period; and

(7) Information on the number, duration, and cause of deviations (including unknown cause, if applicable), as applicable, and the corrective action taken.

(Ref: 40 CFR 63.6650(a)-(d) and Item 1 to Table 7 of Subpart ZZZZ)

5.C.7 For Emission Point AA-008, the permittee shall submit semiannual compliance monitoring reports of the following records:

(a) If the stationary CI internal combustion engine is equipped with a diesel particulate filter, the permittee must keep records of any corrective action taken after the backpressure monitor has notified the permittee that the high backpressure limit of the engine is approached;

(b) Type of fuel combusted, including quantity and quality;

(c) Monthly and rolling, consecutive 12-month hours of operations;

(d) Records of all maintenance performed; and

(e) Any manufacturer documentation and emissions test certification(s).

(Ref.: 40 CFR 60.4214(c) and Air Construction Permit issued April 25, 2006, and modified June 27, 2012)

SECTION 6. ALTERNATIVE OPERATING SCENARIOS

6.1 None permitted.

SECTION 7. TITLE VI REQUIREMENTS

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

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

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

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

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

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

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

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

(a) Servicing, maintaining, or repairing appliances;

(b) Disposing of appliances, including small appliances and motor vehicle air conditioners; or

(c) Refrigerant reclaimers, technician certifying programs, appliance owners and operators, manufacturers of appliances, manufacturers of recycling and recovery equipment, approved recycling and recovery equipment testing organizations,

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

7.5 The permittee shall be allowed to switch from any ozone-depleting substance to any acceptable alternative that is listed in the Significant New Alternatives Policy (SNAP) program promulgated pursuant to 40 CFR Part 82, Subpart G – Significant New Alternatives Policy Program. The permittee shall also comply with any use conditions for the acceptable alternative substance.

7.6 If the permittee performs any of the following activities, the permittee shall comply with the applicable requirements of 40 CFR Part 82, Subpart H – Halon Emissions Reduction:

(a) Any person testing, servicing, maintaining, repairing, or disposing of equipment that contains halons or using such equipment during technician training;

(b) Any person disposing of halons;

(c) Manufacturers of halon blends; or

(d) Organizations that employ technicians who service halon-containing equipment.

APPENDIX A

List of Abbreviations Used In this Permit

11 Miss. Admin. Code Pt. 2, Ch. 1.	Air Emission Regulations for the Prevention, Abatement, and Control of Air Contaminants
11 Miss. Admin. Code Pt. 2, Ch. 2.	Permit Regulations for the Construction and/or Operation of Air Emissions Equipment
11 Miss. Admin. Code Pt. 2, Ch. 3.	Regulations for the Prevention of Air Pollution Emergency Episodes
11 Miss. Admin. Code Pt. 2, Ch. 4.	Ambient Air Quality Standards
11 Miss. Admin. Code Pt. 2, Ch. 5.	Regulations for the Prevention of Significant Deterioration of Air Quality
11 Miss. Admin. Code Pt. 2, Ch. 6.	Air Emissions Operating Permit Regulations for the Purposes of Title V of the Federal Clean Air Act
11 Miss. Admin. Code Pt. 2, Ch. 7.	Acid Rain Program Permit Regulations for Purposes of Title IV of the Federal Clean Air Act
BACT	Best Available Control Technology
CEM	Continuous Emission Monitor
CEMS	Continuous Emission Monitoring System
CFR	Code of Federal Regulations
CO	Carbon Monoxide
COM	Continuous Opacity Monitor
COMS	Continuous Opacity Monitoring System
DEQ	Mississippi Department of Environmental Quality
EPA	United States Environmental Protection Agency
gr/dscf	Grains Per Dry Standard Cubic Foot
HP	Horsepower
HAP	Hazardous Air Pollutant
lbs/hr	Pounds per Hour
M or K	Thousand
MACT	Maximum Achievable Control Technology
MM	Million
MMBTUH	Million British Thermal Units per Hour
NA	Not Applicable
NAAQS	National Ambient Air Quality Standards
NESHAP	National Emissions Standards For Hazardous Air Pollutants, 40 CFR 61 or National Emission Standards For Hazardous Air Pollutants for Source Categories, 40 CFR 63
NMVOC	Non-Methane Volatile Organic Compounds
NO_x	Nitrogen Oxides
NSPS	New Source Performance Standards, 40 CFR 60
O&M	Operation and Maintenance
PM	Particulate Matter
PM_{10}	Particulate Matter less than 10 μm in diameter
ppm	Parts per Million
PSD	Prevention of Significant Deterioration, 40 CFR 52
SIP	State Implementation Plan
SO_2	Sulfur Dioxide
TPY	Tons per Year
TRS	Total Reduced Sulfur
VEE	Visible Emissions Evaluation
VHAP	Volatile Hazardous Air Pollutant
VOC	Volatile Organic Compound

APPENDIX B

LIST OF REGULATIONS REFERENCED IN PERMIT

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

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

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

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

40 CFR 63, Subpart A – General Provisions

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

40 CFR 60, Subpart A – General Provisions

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