STATE OF MISSISSIPPI
AIR POLLUTION CONTROL
TITLE V PERMIT

TO OPERATE AIR EMISSIONS EQUIPMENT

THIS CERTIFIES THAT

Caterpillar, Inc.
501 Cardinal Drive
(Alcorn 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: October 10, 2013

Effective Date: As specified herein.

MISSISSIPPI ENVIRONMENTAL QUALITY PERMIT BOARD

AUTHORIZED SIGNATURE
MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY

Expires: September 30, 2018 **Permit No.: 0060-00003**

Modified: September 29, 2014

Modified: APR 0 7 2015

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SECTION 1. GENERAL CONDITIONS

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

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

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

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

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

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

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

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

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

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

of an emergency.

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

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

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

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

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

(a) For purposes of fee assessment and collection, the permittee shall elect for actual or allowable emissions to be used in determining the annual quantity of emissions unless the Commission determines by order that the method chosen by the applicant for calculating actual emissions fails to reasonably represent actual emissions. Actual emissions shall be calculated using emission monitoring data or direct emissions measurements for the pollutant(s); mass balance calculations such as the amounts of the pollutant(s) entering and leaving process equipment and where mass balance calculations can be supported by direct measurement of process parameters, such direct measurement data shall be supplied; published emission factors such as those relating release quantities to throughput or equipment type (e.g., air emission factors); or other approaches such as engineering calculations (e.g., estimating volatilization using published mathematical formulas) or best engineering judgments where such judgments are derived from process and/or emission data which supports the estimates of maximum actual emission. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.6.A(2).)

(b) If the Commission determines that there is not sufficient information available on a facility's emissions, the determination of the fee shall be based upon the permitted

allowable emissions until such time as an adequate determination of actual emissions is made. Such determination may be made anytime within one year of the submittal of actual emissions data by the permittee. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.6.A(2).) If at any time within the year the Commission determines that the information submitted by the permittee on actual emissions is insufficient or incorrect, the permittee will be notified of the deficiencies and the adjusted fee schedule. Past due fees from the adjusted fee schedule will be paid on the next scheduled quarterly payment time. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.6.D(2).)

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

1.17 Expiration of this permit terminates the permittee's right to operate unless a timely and complete renewal application has been submitted. A timely application is one which is submitted at least six (6) months prior to expiration of the Title V permit. If the permittee submits a timely and complete application, the failure to have a Title V permit is not a violation of regulations until the Permit Board takes final action on the permit application. This protection shall cease to apply if, subsequent to the completeness determination, the permittee fails to submit by the deadline specified in writing by the DEQ any additional

information identified as being needed to process the application. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.4.C(2)., R. 6.4.B., and R. 6.2.A(1)(c).)

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

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

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

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

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

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

(3) any change in emissions, and

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

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

1.19 Should the Executive Director of the Mississippi Department of Environmental Quality declare an Air Pollution Emergency Episode, the permittee will be required to operate in accordance with the permittee's previously approved Emissions Reduction Schedule or, in the absence of an approved schedule, with the appropriate requirements specified in 11 Miss. Admin. Code Pt. 2, Ch. 3., "Regulations for the Prevention of Air Pollution Emergency Episodes" for the level of emergency declared. (Ref.: 11 Miss. Admin. Code Pt. 2, Ch. 3.)

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

(a) routine maintenance, repair, and replacement;

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

(1) The occurrence of an upset constitutes an affirmative defense to an enforcement action brought for noncompliance with emission standards or other requirements of Applicable Rules and Regulations or any applicable permit if the permittee demonstrates through properly signed contemporaneous operating logs, or other relevant evidence that include information as follows:

(i) an upset occurred and that the permittee can identify the cause(s) of the upset;

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

(iii) during the upset the permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards, or other requirements of Applicable Rules and Regulations or any applicable permit;

(iv) the permittee submitted notice of the upset to the DEQ within 5 working days of the time the upset began; and

(v) the notice of the upset shall contain a description of the upset, any steps taken to mitigate emissions, and corrective actions taken.

(2) In any enforcement proceeding, the permittee 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.

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

(1) Startups and shutdowns are part of normal source operation. Emissions limitations applicable to normal operation apply during startups and shutdowns

except as follows:

(i) when sudden, unavoidable breakdowns occur during a startup or shutdown, the event may be classified as an upset subject to the requirements above;

(ii) when a startup or shutdown is infrequent, the duration of excess emissions is brief in each event, and the design of the source is such that the period of excess emissions cannot be avoided without causing damage to equipment or persons; or

(iii) when the emissions standards applicable during a startup or shutdown are defined by other requirements of Applicable Rules and Regulations or any applicable permit.

(2) In any enforcement proceeding, the permittee seeking to establish the applicability of any exception during a startup or shutdown has the burden of proof.

(3) In the event this startup and shutdown provision conflicts with another applicable requirement, the more stringent requirement shall apply.

(c) Maintenance.

(1) Maintenance should be performed during planned shutdown or repair of process equipment such that excess emissions are avoided. Unavoidable maintenance that results in brief periods of excess emissions and that is necessary to prevent or minimize emergency conditions or equipment malfunctions constitutes an affirmative defense to an enforcement action brought for noncompliance with emission standards, or other regulatory requirements if the permittee can demonstrate the following:

(i) the permittee can identify the need for the maintenance;

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

(iii) during the maintenance the permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards, or other requirements of Applicable Rules and Regulations or any applicable permit;

(iv) the permittee submitted notice of the maintenance to the DEQ within 5 working days of the time the maintenance began or such other times as allowed by DEQ; and

(v) the notice shall contain a description of the maintenance, any steps taken to mitigate emissions, and corrective actions taken.

(2) In any enforcement proceeding, the permittee seeking to establish the applicability of this section has the burden of proof.

(3) In the event this maintenance provision conflicts with another applicable requirement, the more stringent requirement shall apply. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 1.10.)

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

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SECTION 2. EMISSION POINTS & POLLUTION CONTROL DEVICES

Emission Point	Description
AA-000	**(AB-000 through AH-000) - Corinth Operations**
AB-000	**(AB-001 and AB-003 through AB-004) Backup Generators**
AB-001 (Ref. 68M-039)	Diesel Engine Backup Emergency Generator (425 HP unit located at Sawyer Road)
AB-003 (Ref. 68M-0539)	Diesel Engine Backup Emergency Generator (660 HP unit located adjacent to the Breakroom)
AB-004	Diesel Engine Backup Emergency Generator (708 HP unit located adjacent to the Logistics Center)
AC-000	**(AC-001 through AC-085) Metal Preparation and Coating Operations**
AC-001 (Ref. AA-023 & Ref. 68M-096)	Diesel Engine Spray Paint Booth
AC-004 (Ref. 68M-050)	Diesel Engine Crankshafts Flusher and Coater
AC-007 (Ref. 68M-110)	Steel Dunker Tank
AC-008 (Ref. 68M-202)	Diesel Engine Burner Tubes Dunker Tank
AC-009 (Ref. 68M-214)	Diesel Engine Cylinder Intake Valve Dunker Tank
AC-010 (Ref. 68M-1380)	Diesel Engine Blocks Washer and Coater.
AC-012 (Ref. 68M-373-6 & 68M-373-7)	7-Stage Salt Bath (Ref. 68M-0373-6)
	7-Stage Salt Bath (Ref. 68M-0373-7)
AC-015 (Ref. 68M-622)	Diesel Engine Crankshafts Blue Tarp Dunker Tank
AC-016 (Ref. 68M-625)	Diesel Engine Cylinder Heads Packing
AC-017 (Ref. 68M-849)	Diesel Engine Short Block Flusher and Coater
AC-018 (Ref. 68M-854)	Diesel Engine Blocks Flusher and Coater
AC-019 (Ref. 68M-921-4)	Diesel Engine Cylinder Head 5 Stage Washer
AC-020 (Ref. 68M-921-5)	Diesel Engine Cylinder Heads 5 stage Washer
AC-021 (Ref. 68M-960)	Miscellaneous Diesel Engine Assembly Dunker Tank
AC-022 (Ref. 68M-0990)	Finished Diesel Engine Blocks Washer and Coater
AC-025 (Ref. 68M-1270)	Diesel Engine Blocks Final Wash
AC-028 (Ref. 68M-1296)	Diesel Engine Cylinder Heads Packing
AC-029 (Ref. 68M-106)	Steel Dunker Tank 6
AC-030 (Ref. 68M-107)	Steel Dunker Tank 7
AC-032 (Ref. 68M-072)	Miscellaneous Engine Parts Assembly Dunker Tank

Emission Point	Description
AC-033 (Ref. 68M-1118)	Diesel Engine Crankshafts Prep Washer
AC-035	Facility Wide Tool Flush and Clean Operations
AC-043 (Ref. 68M-002)	Diesel Engine Crankshaft Journal Flusher and Cleaner
AC-045 (Ref. 68M-1367-2)	3500 Block Wash, Stage 2
AC-046 (Ref. 68M-1368-2)	3500 Block Wash, Stage 2
AC-047 (Ref. 68M-1532)	Intake Valve Grinder
AC-048 (Ref. 68M-1690)	Typhoon Washer
AC-049 (Ref. 68M-1399)	Salvage and Developmental Dunker Tank
AC-050 (Ref. 68M-1400)	Salvage and Developmental Dunker Tank
AC-051 (Ref. 68M-1401)	Salvage and Developmental Dunker Tank
AC-052 (Ref. 68M-1402)	Salvage and Developmental Dunker Tank
AC-053 (Ref. 68M-1403)	Salvage and Developmental Dunker Tank
AC-054 (Ref. 68M-0951)	Test Cell High Pressure Washer
AC-057 (Ref. 68M-1474)	Fuel Rail Flusher
AC-059 (Ref. 68M-1727)	Wire Arc Spray Cell Dunker Tank
AC-060 (Ref. 68M-0874)	Block Mag Flux Operation
AC-061 (Ref. 68M-1476)	Oil/ Water Separator
AC-062 (Ref. 68M-1216)	Head Mag Flux Operation
AC-063 (Ref. 68M-1676)	Vibratory Miscellaneous Steel Shaker Operation
AC-064 (Ref. 68M-1803, 68M-1804, 68M-1805)	3500 Disassembly Detail Booths
AC-065 (Ref. 68M-1806)	3500 Disassembly Downdraft Table
AC-066	Aluminum Blaster 1
AC-067	Aluminum Blaster 2
AC-068	Armex Blaster 1
AC-069	Armex Blaster 2
AC-070	Laser Cladding Operation
AC-071	Aluminum Washer
AC-072	Warranty Review Tank

Emission Point	Description
AC-073	Salvage Development Area Tanks and Operations
AC-074	Electric Heated Washer utilizing P3N 5088 Solution
AC-075	Salvage Development Area Dunker Tank
AC-076	Mazaks
AC-077	Dunker Tank
AC-078	Dunker Tank
AC-079	1,200 Gallon Crankshaft Washer Tank
AC-080	1,200 Gallon Crankshaft Washer Tank
AC-081	Vibrating Shaker
AC-082	Crankshaft Magnaflux Machine "Washer"
AC-083	Red Box Tool Part Washer Solvent Shell
AC-084	Block Washer
AC-085	Detail Booth
AD-000	**(AD-001 through AD-004) Engine Test Cell Operations**
AD-001 (Ref. 68M-399)	Engine Test Cell #2 used for the performance testing of rebuilt diesel engines
AD-002 (Ref. 68M-400)	Engine Test Cell #3 used for the performance testing of rebuilt diesel engines
AD-003 (& Ref. 68M-401)	Engine Test Cell #4 used for the performance testing of rebuilt diesel engines
AD-004 (Ref. 68M-0507)	Engine Test Cell #1 used for the performance testing of rebuilt diesel engines
AD-005	Engine Test Cell #5 used for the performance testing of rebuilt diesel engines located at AH-000
AE-000	**(AE-001 through AE-021and AE-023 through AE-024) Fuel Burning Equipment with a total combined capacity of 41.205 (41.712) MMBTU/hr; Natural Gas-fired**
AE-001 (Ref. 68M-921-1) (Ref. 68M-921-2) (Ref. 68M-921-3) (Ref. 68M-921-4) (Ref. 68M-921-5)	5-stage Head Washer: Equipped with a mist collector. Stage #1 equipped with a 8.0 MMBTU/hr Natural Gas-fired Burner, Stage #2 equipped with a 3.8 MMBTU/hr Natural Gas-fired Burner, Stage #3 equipped with a 3.8 MMBTU/hr Natural Gas-fired Burner, Stage #4 equipped with a 1.8 MMBTU/hr Natural Gas-fired Burner, and Stage #5 equipped with a 1.8 MMBTU/hr Natural Gas-fired Burner
AE-002 (Ref. 68M-068)	Crankshaft Oven equipped with a 2.0 MMBTU/hr Natural Gas-fired Burner
AE-003 (Ref. 68M-311)	Head Weld Pretreat Oven equipped with a 2.4 MMBTU/hr Natural Gas-fired Burner
AE-004 (Ref. 68M-312)	Head Weld Pretreat Oven equipped with a 2.4 MMBTU/hr Natural Gas-fired Burner
AE-005 (Ref. 68M-373-1)	Salt Bath Pot #1 equipped with a venture scrubber and equipped with a 2.0 MMBTU/hr Natural Gas-fired Burner
AE-006 (Ref. 68M-373-2)	Salt Bath Pot #2 equipped with a venture scrubber and equipped with a 2.0 MMBTU/hr Natural Gas-fired Burner
AE-008 (Ref. 68M-0951)	High Pressure Washer equipped with a 0.75 MMBTU/hr Natural Gas-fired Burner

Emission Point	Description
AE-009 (Ref. 68M-990)	Engine Block Washer equipped with a 0.40 MMBTU/hr Natural Gas-fired Burner
AE-010 (Ref. 68M-993)	Cylindrical Head Washer equipped with a 1.75 MMBTU/hr Natural Gas-fired Burner
AE-011 (Ref. 68M-1030)	High Pressure Engine Parts Washer equipped with a 0.35 MMBTU/hr Natural Gas-fired Burner
AE-012 (Ref. 68M-1208)	Engine Test Cell Hot Water Heater equipped with a 1.10 MMBTU/hr Natural Gas-fired Burner
AE-013 (Ref. 68M-1700)	Fluidized Sand Bed Operation equipped with a 0.36 MMBTU/hr Natural Gas-fired Burner
AE-014 (Ref. 68M-1279, 1280, 1323 - 1327)	Seven (7) Puddle Welders each equipped with a 0.13 MMBTU/hr Acetylene Gas-fired Burner
AE-015 (Ref. 68M-1360)	High Pressure Washer equipped with a 0.4 MMBTU/hr Natural Gas-fired Burner
AE-016 (Ref. 68M-0854)	Block Washer equipped with a 0.8 MMBTU/hr Natural Gas-fired Burner
AE-017	2-Stage Block Washer equipped with a 1.5 MMBTU/hr Natural Gas-fired Burner
AE-018	Alloy Brazing Furnace equipped with a 0.12 MMBTU/hr Natural Gas-fired Burner
AE-019	Natural Gas-fired Burners for HVOF Thermal Spray System with a total combined capacity of 0.37 MMBTU/hr
AE-020	Propane Burners for HVOF Thermal Spray System with a total combined capacity of 0.37 MMBTU/hr
AE-021	Kerosene Burners for HVOF Thermal Spray System with a total combined capacity of 1.0 MMBTU/hr
AE-022	Plant 2 Facility-Wide Natural Gas-fired fuel burning equipment with a total rated capacity of 7.168 MMBTU/hr located at AH-000.
AE-023	One (1) 0.8 MMBTU/hr Natural Gas-fired Dryer Burner (LEF)
AE-024	One (1) 4.675 MMBTU/hr Natural Gas-fired Air Makeup Burner (LEF)
AF-000	**(AF-001 through AF-039) Metal Surface Preparation Operations**
AF-001 (Ref. 68M-0283 vents to 68M-0049)	Crankshaft Shotpeen Operations (Ref. 68M-0283) equipped with a 99.0% efficient Pangborn Dust Collector (Ref. 68M-0049)
AF-002 (Ref. 68M-0406 vents to 68M-1640)	Cylindrical Head Blasting Operation (Ref. 68M-0406) equipped with a 99.0% efficient Wheelabrator Dust Collector (Ref. 68M-1640)
AF-003 (Ref. 68M-1226, 68M-1432, 68M-1742, and 68M-1743 vent to 68M-1071)	Spray Process, Metal Abrasive Spray Process, Thermal Spray (Ref. 68M-1071), and Welding Operation Booths (Ref. 68M-1742 and 68M-1743) in the Salvage Development Area equipped with a 99.9% efficient Metco Dust Collector (Ref. 68M-1071)
AF-005 (Ref. 68M-1521 68M-1705, & 68M-1706 vent to 68M-1486)	Wire Spray Processes and Laser Blasting equipped with a 99.0% efficient Dustex Industrial Dust Collector
AF-006 (Ref. 68M-1729, 68M-1728, 68M-0144)	East Head Wire Arc Spray Booth (Ref. 68M-1723) venting to North Head Dust Collector (Ref. 68M-1729) Torit DFO 3-36
	West Head Wire Arc Spray Booth (Ref. 68M-1724) venting to South Head Dust Collector (Ref. 68M-1728) Torit DFO 3-36
	Wire Arc Spray Booth (Ref. 68M-1731) venting to Dust Collector (Ref. 68M-0144) Torit DFO 3-36
AF-007 (Ref. 68M-1792 vents to 68M-1790)	Bore Spray Operation (Ref. 68M-1792)
AF-008	Dust Collector for Armex Baking Soda Blast Cabinet that vents inside

Emission Point	Description
AF-009	Torit Downflow dust Collector for had blasting operation that vents inside
AF-010	Polishing Station with Donaldson Torit downdraft Dust Collector
AF-011	Torit Dust collector for grinding operation in crankshaft
AF-012	Torit Dust collector for grinding operation in crankshaft
AF-013	Torit Dust collector for grinding operation in crankshaft
AF-014	Torit Dust collector for grinding operation in crankshaft
AF-015	Torit Dust collector for grinding operation in crankshaft
AF-016	Torit Dust collector for crankshaft belt sander
AF-017	Torit Dust collector for crankshaft belt sander
AF-018	Valve Stem Grinder with Torit 60 CAB dust collector that vents inside
AF-019	Sandstrand grinding mill with Torit 80 CAB collector vented inside
AF-020	3400 Cyclinder Heads mill with Torit 80 CAB DC vented inside
AF-021	Tunnel Cylinder Heads mill with Torit 90-5 CAB DC vented inside
AF-022	Tunnel Cylinder Heads mill with Torit 80 CAB DC vented inside
AF-023	Torit Mist Collector (DMC-C) vented inside
AF-024	Torit Mist Collector (DMC-C) vented inside
AF-025	Torit 90 CAB DC on Cincinnati Mill vented inside
AF-026	Torit 100 CAB DC on cylinder head detail booth vented inside
AF-027	Torit 90 CAB DC on Cincinnati Rough Mill vented inside
AF-028	Airflow Systems Inc. downdraft table for rough detail heads vented inside
AF-029	Airflow Systems Inc. downdraft table for final detail heads vented inside
AF-030	Heads Shot Peening Operation with Progressive Tech DC vented inside
AF-031	Cos-Weld Station with Certanium 889 SP electrodes
AF-032	Cos-Weld Station with Certanium 889 SP electrodes
AF-033	Robotic welding cell vented through Torit DC
AF-034	Torit 100 CAB DC on cylinder head detail booth vented inside
AF-035	Downdraft table vented inside
AF-036	Five (5) Cylinder Head Detail Booth
AF-037	Okamoto internal grinding unit
AF-038	Micro Laser Weld Model ALW-200 Operation
AF-039	Navistar Core Sorting Operation at Sawyer Road Warehouse

Emission Point	Description
AG-000	**(AG-001 through AG-026) Facility Wide Storage Tanks**
AG-001	One (1) 26,000 Gallon Hazardous Waste Storage Tank
AG-002	Miscellaneous Facility Wide Storage Tanks (Ref. AG-002 through AG-025 and Plant 2 Storage Tanks) qualifying as Insignificant Activities
AG-026	Multiple Battery Charging Stations for fork lifts containing Sulfuric Acid
AH-000	**Plant 2 Operations**
AH-001	Oil/ Water Separator
AH-002	Test Cell High Pressure Washer
AH-003	Paint Booth High Pressure Washer
AH-004	Wire Arc Spray Booth
AH-005	Paint Booth
AH-006	Block Washer
AH-007	Detail Booth(s)
AH-008	Primer Booth
AH-009	Spray Paint Booth
AH-010	Spray Paint Booth
AH011	5-Stage Phosphate Coating Washer

SECTION 3. EMISSION LIMITATIONS & STANDARDS

A. Facility-Wide Emission Limitations & Standards

Emission Point	Applicable Requirement	Condition Number	Pollutant/ Parameter	Limit/Standard
Entire Facility	11 Miss. Admin. Code Pt. 2, R. 1.3.A.	3.A.1	Opacity	Startup Operations may exceed 40% for 15 minutes in any hour not to exceed 3 startups per 24 hour period.
				Emissions from soot blowing shall not exceed 60%.
	11 Miss. Admin. Code Pt. 2, R. 1.3.B.	3.A.2		The permittee shall not exceed 40% at any time.
	11 Miss. Admin. Code Pt. 2, R. 6.3.A(3).	3.A.3	HAP	9.90 tons/year for each consecutive 12 months for individual HAP and 24.90 tons/year for each consecutive 12 months for combined HAP.
		3.A.4	VOC	249.0 tons/year for each consecutive 12 months.

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.)

3.A.3 The permittee shall limit the entire facility's Hazardous Air Pollutant (HAP) emissions to no

more than 9.9 TPY (tons per year) of any single HAP and no more than 24.9 TPY of total combined HAP's as determined for each consecutive 12-month period on a rolling monthly basis. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.A(3).)

3.A.4 The permittee shall limit the entire facility's Volatile Organic Compound (VOC) emissions to no more than 249.0 TPY (tons per year) as determined for each consecutive 12-month period on a rolling monthly basis. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.A(3).)

B. Emission Point Specific Emission Limitations & Standards

Emission Point	Applicable Requirement	Condition Number	Pollutant/ Parameter	Limit/Standard
AD-000 and AH-000 (Backup Generators, Engine Test Cells, and Plant 2)	11 Miss. Admin. Code Pt. 2, R. 1.3.D(1)(b).	3.B.1	$PM/PM_{10}/PM_{2.5}$	$E = 0.8808*(I)^{-0.1667}$
AB-000, AD-000, AE-000 & AH-000 (Backup Generators, Engine Test Cells, Fuel Burning Equipment, and Plant 2)	11 Miss. Admin. Code Pt. 2, R. 1.4.A(1).	3.B.2	SO_2	4.8 lbs/MMBTU/HR or as otherwise limited by facility modification restrictions
AB-000, AE-000 and AH-000 (Backup Generators, Fuel Burning Equipment and Plant 2)	11 Miss. Admin. Code Pt. 2, R. 1.3.D(1)(a).	3.B.3	$PM/PM_{10}/PM_{2.5}$	0.6 lbs/MMBTU/HR or as otherwise limited by facility modification restrictions
AC-000 and AF-000 (Metal Preparation and Metal Surface Preparation)	11 Miss. Admin. Code Pt. 2, R. 1.3.F(1).	3.B.4	$PM/PM_{10}/PM_{2.5}$	$E = 4.1p^{0.67}$

Emission Point	Applicable Requirement	Condition Number	Pollutant/ Parameter	Limit/Standard
AB-001 & AB-003 (Backup Generators)	40 CFR 63.6603 & Table 2d	3.B.5	40 CFR Part 63, Subpart ZZZZ	Change oil and filter every 500 hours of operation or annually, whichever comes first; Inspect air cleaner every 1,000 hours of operation or annually, whichever comes first, and replace as necessary; and Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.
AB-004 (Backup Generator)	40 CFR 60.4200(a)(i)(i)	3.B.6	40 CFR Part 60, Subpart IIII	Applicability

3.B.1 The maximum permissible emission of ash and/or particulate matter from fossil fuel burning installations equal to or greater than 10 million BTU per hour heat input but less than 10,000 million BTU per hour heat input 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.2 The maximum discharge of sulfur oxides from any fuel burning installations 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).)

3.B.3 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.B.4 Except as otherwise specified, the permittee shall not cause, permit, or allow the emission from any manufacturing process, in any one hour from any point source, particulate matter in

total quantities in excess of the amount determined by the relationship $E = 4.1p^{0.67}$ where E is the Emission rate in pounds per hour and p is the process weight input rate in tons per hour. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 1.3.F(1).)

3.B.5 For Emission Points AB-001 and AB-003, the permittee is subject to and shall comply with applicable provisions of 40 CFR Part 63, Subpart ZZZZ – National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (RICE). The permitee shall comply with the management practices of 40 CFR 63.6603 by complying with Table 2d of the subpart by complying with the following:

(a) Change oil filter every 500 hours of operation or annually, whichever comes first;

(b) Inspect air cleaner every 1,000 hours of operation or annually, whichever comes first, and replace as necessary; and

(c) Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.

(Ref.: 40 CFR 63.6603 & Table 2d)

3.B.6 For Emission Point AB-004, the permittee is subject to 40 CFR Part 60, Subpart IIII – New Source Performance Standards for Stationary Compression Ignition Internal Combustion Engines and shall comply with the applicable provisions. (Ref.: 40 CFR 60.4200(a)(1)(i))

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 Requirements

Emission Point	Pollutant/ Parameter Monitored	Specific Monitoring and Recording Requirement	Condition Number	Applicable Requirement
Entire Facility	HAP & VOC	Quality and Quantity of all HAP and VOC containing material used.	5.B.1	11 Miss. Admin. Code Pt. 2, R. 6.3.A(3).
AF-000	PM/PM_{10}/$PM_{2.5}$	Weekly Opacity Inspections and VEE's	5.B.2	11 Miss. Admin. Code Pt. 2, R. 6.3.A(3).
AB-001 & AB-003 (Backup Generators)	40 CFR Part 63, Subpart ZZZZ	Monitoring Requirements	5.B.3	40 CFR 63.6625 (e), (f), (h), and (i)
		Continuous Compliance	5.B.4	40 CFR 63.6640(f)

5.B.1 For the entire facility, the permittee shall determine for each coating, adhesive, solvent, or other Volatile Organic Compound (VOC) and Hazardous Air Pollutant (HAP) containing material used and maintain sufficient monthly records to document:

(a) Quantity used (gal or lb)

(b) The percentage of VOC's and HAP's by weight

(c) The density (lbs/gal), unless material usages are measured in lbs

(d) The permittee may utilize data supplied by the manufacturer, or analysis of VOC and HAP content by EPA Test Method 24 and/or 311, 40 CFR 60, Appendix A.

(e) The permittee shall calculate the VOC and HAP emissions from the use of these materials each month and compare the HAP and VOC emissions to those allowed under conditions 3.A.3 and 3.A. 4 respectively of the permit herein.

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

5.B.2 For Emission Points within AF-000 that have external stacks and Emission Point AH-004, the permittee shall perform weekly Visual Emission Evaluations (VEEs/Observations) by EPA Method 22, 40 CFR 60, Appendix A. Observations shall be conducted during daylight hours and while the equipment is in operation. If visible emissions are observed, excluding condensed water vapor, the permittee shall:

(a) Within 24 hours, take corrective action that eliminates the visible emissions or verify that the unit causing the emissions and any associated air pollution control equipment are operating normally in accordance with design and standard procedures, and under the same conditions in which compliance was achieved in the past, and

(b) If visible emissions are not eliminated, have a certified visual emissions observer determine compliance with the opacity standard using EPA Reference Method 9 within three business days, and

(c) Report the visible emissions as a potential deviation (or as a violation if demonstrated by EPA Reference Method 9) according to the reporting requirements of this permit.

(d) For Emission Points within AF-000 that do not have external stacks, the air emissions equipment shall be operated as efficiently as possible to provide maximum reductions of air contaminants.

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

5.B.3 For Emission Points AB-001 and AB-003, the permittee shall comply with the monitoring, installation, collection, operation, and maintenance requirements of 40 CFR 63.6625(e), (f), (h), and (i), by complying with the following:

(a) the permittee shall operate and maintain the stationary RICE according to the manufacturer's emission-related written instructions or develop your own maintenance plan which shall provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions:

(b) the permittee shall install a non-resettable hour meter if one is not already installed.

(c) the permittee shall 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 applicable to all times other than startup in Tables 1a, 2a, 2c, and 2d in 40 CFR 63, Subpart ZZZZ.

(d) If the permittee owns or operates a stationary CI engine that is subject to the work, operation or management practices in items 1 or 2 of Table 2c to this subpart or in items 1 or 4 of Table 2d to this subpart, the permittee has the option

of utilizing an oil analysis program in order to extend the specified oil change requirement in Tables 2c and 2d to this subpart. The oil analysis must be performed at the same frequency specified for changing the oil in Table 2c or 2d to this subpart. The analysis program must at a minimum analyze the following three parameters: Total Base Number, viscosity, and percent water content. The condemning limits for these parameters are as follows: Total Base Number is less than 30 percent of the Total Base Number of the oil when new; viscosity of the oil has changed by more than 20 percent from the viscosity of the oil when new; or percent water content (by volume) is greater than 0.5. If all of these condemning limits are not exceeded, the engine owner or operator is not required to change the oil. If any of the limits are exceeded, the engine owner or operator must change the oil within 2 business days of receiving the results of the analysis; if the engine is not in operation when the results of the analysis are received, the engine owner or operator must change the oil within 2 business days or before commencing operation, whichever is later. The owner or operator must keep records of the parameters that are analyzed as part of the program, the results of the analysis, and the oil changes for the engine. The analysis program must be part of the maintenance plan for the engine.

(Ref.: 40 CFR 63.6625(e), (f), (h), and (i))

5.B.4 For Emission Points AB-001 and AB-003, the permittee shall comply with 40 CFR 63.6640(f) by demonstrating that the emergency stationary RICE meets the following Continuous Compliance Requirements. In order for the engine to be considered an emergency stationary RICE under this subpart, any operation other than emergency operation, maintenance and testing, emergency demand response, and operation in non-emergency situations for 50 hours per year, as described in paragraphs (1) through (4) of 40 CFR 63.6640(f), is prohibited. If the permittee does not operate the engine according to the requirements in paragraphs (1) through (4) of 40 CFR 63.6640(f), the engine will not be considered an emergency engine under this subpart and must meet all requirements for non-emergency engines.

(1) There is no time limit on the use of emergency stationary RICE in emergency situations.

(2) The permittee shall operate the emergency stationary RICE for a maximum of 100 hours per calendar year.

(Ref.: 40 CFR 63.6640)

C. Specific Recording Requirements

Emission Point	Pollutant/ Parameter	Specific Recording Requirements	Condition Number	Applicable Requirement
Entire Facility	HAP & VOC	Quality and Quantity of HAP's and VOC's used.	5.C.1	11 Miss. Admin. Code Pt. 2, R. 6.3.A(3).
Entire Facility	Fuel Usage	Quality and Quantity of all Fuel Consumed.	5.C.2	11 Miss. Admin. Code Pt. 2, R. 6.3.A(3).
AF-000	$PM/PM_{10}/PM_{2.5}$	Weekly Recordkeeping of Opacity Inspections and VEE's	5.C.3	11 Miss. Admin. Code Pt. 2, R. 6.3.A(3).
AB-001 & AB-003 (Backup Generators)	40 CFR 63, Subpart ZZZZ	Recordkeeping Requirements	5.C.4	40 CFR 63.6655 (except 63.6655(a), (d), (e), and (f))

5.C.1 For the entire facility, the permittee shall maintain sufficient records to document:

(a) Identification of and the total gallons used of each coating, adhesive, solvent, or other HAP and VOC containing material used on a monthly basis and in each consecutive 12-month period on a rolling basis.

(b) The HAP and VOC content(s) of each coating, adhesive, solvent or other HAP and VOC containing material used. A description of the method used to determine the HAP and VOC content shall accompany this data.

(c) The density of each coating, adhesive, solvent or other HAP and VOC containing material used.

(d) The emission rate of each individual HAP and the total HAP and VOC emission rate in tons/year for each consecutive 12-month period on a rolling monthly basis.

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

5.C.2 For the entire facility, the permittee shall maintain records on site of the quality and and quantity of fuel consumed. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.A.(3).)

5.C.3 For Emission Points AF-000 and AH-004, the permittee shall maintain sufficient records to document that the permittee is performing the weekly Visual Emission Evaluations as described in Condition 5.B.2. These records shall be made available upon request by the

Mississippi Department of Environmental Quality (MDEQ) personnel. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.A.(3).)

5.C.4 For Emission Points AB-001 and AB-003, the permittee shall comply with the Recordkeeping Requirements of 40 CFR 63.6655((a) and (d) through (f)) by complying with the following:

(a) The permittee shall keep the records described in paragraphs (a)(1) through (a)(2),

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

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

(b) The permittee shall keep the records required in Table 6 of this subpart to show continuous compliance with each emission or operating limitation that applies.

(c) The permittee shall keep records of the maintenance conducted on the stationary RICE in order to demonstrate that you operated and maintained the stationary RICE and after-treatment control device (if any) according to your own maintenance.

(d) The permittee shall keep records of the hours of operation of the engine that is recorded through the non-resettable hour meter. The permittee shall document how many hours are spent for emergency operation, including what classified the operation as emergency and how many hours are spent for non-emergency operation. If the engine is used for the purposes specified in 40 CFR 63.6640(f)(2)(ii) or (iii) or 40 CFR 63.6640(f)(4)(ii), the permittee shall keep records of the notification of the emergency situation, and the date, start time, and end time of engine operation for these purposes.

(Ref.: 40 CFR 63.6655(a), (d), (e) and (f))

D. Specific Reporting Requirements

Emission Points	Pollutant/ Parameter	Specific Reporting Requirements	Condition Number	Applicable Requirement
Entire Facility	HAP & VOC	Quality and Quantity of HAP's used, submitted semiannually.	5.D.1	11 Miss. Admin. Code Pt. 2, R. 6.3.A(3).

Emission Points	Pollutant/ Parameter	Specific Reporting Requirements	Condition Number	Applicable Requirement
AB-001 & AB-003	40 CFR 63, Subpart ZZZZ	Reporting Requirements	5.D.2	Footnote 2 of Table 2d

5.D.1 For the entire facility, the permittee shall submit semi-annual reports providing:

(a) Identification of each coating, adhesive, solvent, or other HAP and VOC containing material used.

(b) The HAP and VOC content(s) of each coating, adhesive, solvent or other HAP and VOC containing material used. A description of the method used to determine HAP and VOC content shall accompany this data.

(c) The density of each coating, adhesive, solvent or other HAP and VOC containing material.

(d) The total gallons of each coating, solvent or other HAP and VOC containing material used in each consecutive 12-month period on a rolling basis.

(e) The emission rate of each individual HAP and VOC and the total HAP and VOC emission rate in tons/month and tons/year for each consecutive 12-month period on a rolling basis.

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

5.D.2 For Emission Points AB-001 and AB-003, iIf the emergency engine is operated during an emergency and it is not possible to shut down the engine in order to perform the management practice requirements on the schedule required in Table 2d of 40 CFR 63, Subpart ZZZZ, or if performing the management practice on the required schedule would otherwise pose an unacceptable risk under federal, state, or local law, the management practice can be delayed until the emergency is over or the unacceptable risk under federal, state, or local law has abated. The management practice should be performed as soon as practicable after the emergency has ended or the unacceptable risk under federal, state, or local law has abated. Sources must report any failure to perform the management practice on the schedule required and the federal, state or local law under which the risk was deemed unacceptable. (Ref.: 40 CFR Part 63, Subpart ZZZZ, Footnote 2 under Table 2d)

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

40 CFR PART 63 SUBPART ZZZZ

NATIONAL EMISSION STANDARDS FOR HAZARDOUS AIR POLLUTANTS FOR STATIONARY RECIPROCATING INTERNAL COMBUSTION ENGINES (RICE)

APPENDIX C

40 CFR PART 60, SUBPART IIII

NEW SOURCE PERFORMANCE STANDARDS FOR STATIONARY COMPRESSION IGNITION INTERNAL COMBUSTION ENGINES (CI ICE)