STATE OF MISSISSIPPI
AIR POLLUTION CONTROL
TITLE V PERMIT

TO OPERATE AIR EMISSIONS EQUIPMENT

THIS CERTIFIES THAT

Caterpillar Inc.
501 Cardinal Drive
Corinth, Mississippi
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) (i.e., the "Federal Act") 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:[Date not to exceed 5 years from issuance] **Permit No.:** 0060-00003

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SECTION 1. GENERAL CONDITIONS

1.1 The permittee must comply with all conditions of this permit. Any permit non-compliance constitutes a violation of the Federal Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.A(6)(a).)

1.2 It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.A(6)(b).)

1.3 The permit and/or any part thereof may be modified, revoked, reopened, and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.A(6)(c).)

1.4 Prior to its expiration, this permit may be reopened in accordance with the following provisions:.

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

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

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

(3) The Permit Board or EPA determines that the permit contains a material mistake or that inaccurate statements were made in establishing the emissions 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 a permit shall follow the same procedures as apply to initial permit issuance and shall affect only 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 Department of Environmental Quality (DEQ) at least thirty (30) days in advance of the date that the permit is to be reopened, except that the Permit Board may provide a shorter time period in the case of an emergency.

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

1.5 The permittee shall furnish to the 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 claimed 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 The 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 fee based on a fee schedule established by the Mississippi Commission on Environmental Quality (i.e., the "Commission"). The fee schedule shall be set each year by order of the Commission in accordance with the procedure outlined in Regulation 11 Miss. Admin. Code Pt. 2, Ch. 6.

(a) A portion of the fee shall be based on the permittee's annual quantity of emissions. The permittee shall elect for "actual emissions" 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.

(i) "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.

(ii) "Allowable emissions" are those emissions limited by this permit as well as those emissions not expressly limited by this permit but otherwise allowed by this permit, as represented in the Title V application.

(iii) Not withstanding paragraphs (i) and (ii), a minimum annual fee shall be assessed in accordance with the fee schedule established by the Commission when calculating this portion of the fee.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.6.B(1).)

(b) A portion of the fee shall be based on the complexity of this permit, as determined by the number of air regulations applicable to the permittee on the date of the fee calculation in accordance with the fee schedule established by the Commission. Only air regulations required to be addressed by this permit may be included in the annual fee schedule.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.6.B(2).)

(c) By July 1 of each year, the permittee shall submit a completed annual fee reporting form to the DEQ accompanied by all necessary calculations and supporting information to verify actual emissions. If the annual fee reporting form is not filled out completely and accurately or certified in accordance with Regulation 11 Miss. Admin. Code Pt. 2, R. 6.2.E., "allowable emissions" or other information necessary to determine the appropriate annual fee shall be used in the fee calculation.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.6.B(3)(c).)

(d) If the Commission determines that there is not sufficient information available to the permittee to accurately complete and submit the annual fee reporting form by July 1, but such information becomes available and is submitted to the DEQ after July 1, the fee calculation and assessment may be altered according to the annual fee schedule. No fee actually paid to the DEQ shall be refunded due to a change in the fee calculation.

If a fee is recalculated such that the amount assessed for an annual period is reduced and the permittee has already paid all or a portion of the fee, the revised fee assessment may not be reduced to an amount less than what the permittee has already paid regardless of the results of the recalculation.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.6.B(3)(d).)

(e) The fee shall be due September 1 of each year. However, the permittee may elect a quarterly payment method of four (4) equal payments with the payments due September 1, December 1, March 1 and June 1. The permittee shall notify the DEQ that the quarterly payment method will be used by September 1.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.6.E(1).)

(f) If at any time within the year the Commission determines that the information submitted by the permittee is insufficient or incorrect, the DEQ will notify the permittee of the deficiencies and the adjusted fee schedule. Past due fees as a result of the adjusted fee assessment will be due at the time of the next scheduled quarterly payment.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.6.E(1)(b).)

(g) If an annual fee is not paid within thirty (30) days after the due date, a penalty of ten (10) percent of the amount due shall at once accrue and be added thereto. If the fee is not paid in full (including any interest and penalty within sixty (60) days of the due date), the Permit Board may revoke the permit upon proper notice and hearing as required by law.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.6.E(1)(a).)

(h) If the permittee disagrees with the calculation or applicability of an annual 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.D.)

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 upon satisfying one of the following conditions:

(a) Such applicable requirements are included and are specifically identified in the permit; or

(b) The Permit Board, in acting on the permit application or revision, determines in writing that other requirements specifically identified are not applicable to the permittee and the permit includes such determination (or a concise summary thereof).

(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 to register such a plan pursuant to Section 112(r) of the Federal Act.

(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 that is submitted at least six (6) months prior to the date of permit expiration.

If the permittee submits a timely and complete application for permit issuance (including for renewal), the failure to have a Title V permit is not a violation of the applicable 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. 6.2.A(1)(c), R. 6.4.B., and 6.4.C(2).)

1.18 The permittee is authorized to make changes within their facility without requiring a permit revision (Ref.: Section 502(b)(10) of the Federal Act) if the following criteria are met:

(a) The changes are not modifications under any provision of Title I of the Federal 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 [i.e., at least seven (7) days or such other time frame as provided in other regulations for emergencies] and the notification includes the following information:

(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 either the permittee's prepared "Emission Control Action Program(s)" or, in the absence of a prepared Emission Control Action Program, the appropriate requirements and "Emission Reduction Objectives" specified in Regulation 11 Miss. Admin. Code Pt. 2, Ch. 3. – "Regulations for the Prevention of Air Pollution Emergency Episodes" – for the level of emergency declared and the permittee's source of air contamination.

(Ref.: 11 Miss. Admin. Code Pt. 2, Ch. 3.)

1.20 Except as otherwise provided herein, a modification of the permittee's facility may require a Permit to Construct in accordance with the provisions specified in Regulation 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 Regulation 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 any 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 Regulation 11 Miss. Admin. Code Pt. 2, Ch. 2. and/or Ch. 5.; or

(2) The source is approved to use under any permit issued under Regulation 11 Miss. Admin. Code Pt. 2, Ch. 2. and/or Ch. 5.;;

(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 Regulation 11 Miss. Admin. Code Pt. 2, Ch. 2. or Ch. 5.; or

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

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

1.21 An administrative permit amendment may be made by the Permit Board authorizing changes in ownership or operational control consistent with the following procedure:

(a) The Permit Board shall take action within sixty (60) days after receipt of a completed request for a permit transfer, unless a public hearing is scheduled. The Permit Board may incorporate such changes without providing notice to the public or affected State(s) provided that it designates any such permit revision as having been made pursuant to this paragraph.

(b) A permit transfer shall be approved upon satisfaction of the following:

(1) The applicant for transfer approval can demonstrate to the Permit Board it has the financial resources, operational expertise, and environmental compliance history over the last five (5) years to insure compliance with the terms and conditions of the permit to be transferred, except where this conflicts with State Law, and

(2) The Permit Board determines that no other change in the permit is necessary, provided that a written agreement containing a specific date for transfer of permit responsibility, coverage, and liability between the current and new permittee has been submitted to the DEQ.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.4.D(4)(a) and (b).)

1.22 This permit is a Federally approved operating permit under Title V of the Federal Act. All terms and conditions in this permit, including any provisions designed to limit the permittee'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 an Emergency Air Pollution Episode Alert imposed by the Executive Director of DEQ; 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 fifty (50) yards of an occupied dwelling.

(c) Burning must not occur within 500 yards of commercial airport property, private airfields, 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 provisions with respect to upsets, startups, and shutdowns.

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

(1) For an upset, the Commission may pursue an enforcement action for noncompliance with an emission standard or other requirement of an applicable rule, regulation, or permit. In determining whether to pursue enforcement action, and/or the appropriate enforcement action to take, the Commission may consider whether the source has demonstrated through properly signed contemporaneous operating logs or other relevant evidence the following:

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

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

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

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

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

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

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

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

(b) Start-ups and Shutdowns (as defined in 11 Miss. Admin. Code Pt. 2, R. 1.2.)

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

(2) Where the source is unable to comply with existing emission limitations established under the State Implementation Plan (SIP) and defined in Regulation 11 Mississippi Administrative Code, Part 2, Chapter 1, the Department will consider establishing source specific emission limitations or work practice standards for start-ups and shutdowns. Source specific emission limitations or work practice standards established for start-ups and shutdowns are subject to the requirements prescribed in 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 start-up or shutdown, see the "Upset" requirements above.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 1.10.)

1.25 The permittee shall comply with all applicable standards for demolition and renovation activities pursuant to the requirements specified in 40 CFR Part 61, Subpart M (National Emission Standard for Asbestos), 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.

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

SECTION 2. EMISSION POINTS & POLLUTION CONTROL DEVICES

Emission Point	Facility ID	Description
AA-000	**--**	**Corinth Operations: Including the 501 Cardinal Drive Main Plant, Tecumseh Road Large Engine Facility (LEF) and adjacent Caterpillar Logistics Facility (CLF), and the Sawyer Road Warehouse.**
AB-000	**--**	**Emergency Backup Generators**
AB-001	68M-0039	599 HP Diesel Emergency Generator Engine, Manufactured Date: 2000 (located at Sawyer Road)
AB-003	68M-0539	660 HP Diesel Emergency Generator Engine, Manufactured Date: 1982 (located at Cardinal Drive)
AB-004	--	708 HP Diesel Emergency Generator Engine, Manufactured Date: 2010 (located at the CLF)
AB-005	68M-6739	80 HP Natural Gas Emergency Generator Engine, Manufactured Date: 2018 (located at the LEF)
AC-000	**--**	**Metal Preparation and Coating Operations located at Cardinal Drive**
AC-004	68M-0050	Diesel Engine Crankshafts Flusher and Coater
AC-010	68M-1380	Diesel Engine Blocks Washer and Coater
AC-016	68M-0625 68M-0210	Diesel Engine Cylinder Heads Packing
AC-007	68M-0110	Steel Dunker Tank
AC-018	68M-0854	Diesel Engine Blocks Flusher and Coater
AC-022	68M-0990	Finished Diesel Engine Blocks Washer and Coater
AC-025	68M-1270	Diesel Engine Blocks Final Wash
AC-029	68M-0106	Steel Dunker Tank 6
AC-030	68M-0107	Steel Dunker Tank 7
AC-043	68M-0019	Diesel Engine Crankshaft Journal Flusher and Cleaner (vents inside the building)
AC-046	68M-1368-2	3500 Block Wash, Stage 2
AC-048	68M-1690	Typhoon Washer
AC-049	68M-1399	Salvage and Developmental Dunker Tank
AC-050	68M-1400	Salvage and Developmental Dunker Tank
AC-051	68M-1401	Salvage and Developmental Dunker Tank
AC-052	68M-1402	Salvage and Developmental Dunker Tank
AC-054	68M-0951	Test Cell High Pressure Washer
AC-059	68M-1727	Wire Arc Spray Cell Dunker Tank
AC-060	68M-0874	Block Mag Flux Operation (vents inside the building)
AC-061	68M-1476	Oil/Water Separator (vents inside the building)
AC-062	68M-1216	Head Mag Flux Operation (vents inside the building)
AC-064	68M-1803 68M-1804 68M-1805	3500 Disassembly Detail Booths equipped with cartridge dust collectors and HEPA filters (vents inside the building)

Emission Point	Facility ID	Description
AC-065	68M-1806	3500 Disassembly Downdraft Table equipped with a cartridge dust collector and HEPA filter (vents inside the building)
AC-070	68M-2089 68M-2083	Laser Welding / Cladding Operation equipped with a dust collector
AC-071	68M-1928	Aluminum Washer
AC-073	--	Salvage Development Area Tanks and Operations (vents inside the building)
AC-074	68M-1276	Electric Heated Washer
AC-075	68M-0108	Salvage Development Area Dunker Tank (vents inside the building)
AC-076	--	Facility-wide Mazak Machining Units (vents inside the building)
AC-077	68M-1877-1	Dunker Tank 1
AC-078	68M-1877-2	Dunker Tank 2
AC-079	68M-6653	1,300 Gallon Crankshaft Washer Tank
AC-080	68M-6655	1,300 Gallon Crankshaft Washer Tank
AC-081	68M-0553	Vibrating Shaker (vents inside the building)
AC-082	68M-6690	Crankshaft Magnaflux Machine Washer (vents inside the building)
AC-084	68M-1920	Block Washer
AC-085	68M-1791	Detail Booth equipped with a dust collector (vents inside the building)
AC-087	68M-7752	Enclosed automated abrasive table blasting unit, which may use zinc or aluminum blast media, controlled by a cartridge dust collector (vents inside the building)
AC-088	68M-7734	Enclosed automated abrasive table blasting unit, which may use zinc or aluminum blast media, controlled by a cartridge dust collector (vents inside the building)
AC-089	68M-7382	Zinc Blast Station equipped with a cartridge dust collector (vents inside the building)
AC-090	--	7-Stage Molten Salt Bath system equipped with a scrubber (formerly Emission Point AJ-001)
AD-000	**--**	**Engine Test Cell Operations located at the LEF**
AD-001	68M-0399	Engine Test Cell #2 used for the performance testing of rebuilt diesel engines (located at Cardinal Drive)
AD-002	68M-0400	Engine Test Cell #3 used for the performance testing of rebuilt diesel engines (located at Cardinal Drive)
AD-003	68M-0401	Engine Test Cell #4 used for the performance testing of rebuilt diesel engines (located at Cardinal Drive)
AD-004	68M-0507	Engine Test Cell #1 used for the performance testing of rebuilt diesel engines (located at Cardinal Drive)
AD-005	68M-2080	Engine Test Cell #5 used for the performance testing of rebuilt diesel engines (located at LEF)
AD-006	68M-7590	Engine Test Cell #6 used for the performance testing of rebuilt diesel and natural gas-fired engines (located at LEF)

Emission Point	Facility ID	Description
AE-000	**Fuel Burning Equipment – Includes any fuel burning equipment not specifically listed in Section 2 of the TVOP. This equipment only combusts natural gas and qualifies as insignificant activities. See Section 3.C for emission standards pertaining to insignificant activities.**	
AF-000	**--**	**Metal Surface Preparation Operations located at Cardinal Drive**
AF-003	68M-1071 68M-1742 68M-1743	Spray Process, Metal Abrasive Spray Process, Thermal Spray, and Welding Operation Booths located in the Salvage Development Area and controlled by a shared dust collector venting to the atmosphere.
AF-006a	68M-1723 68M-1729	East Head Wire Arc Spray Booth venting to the North Head Dust Collector
AF-006b	68M-1724 68M-1728	West Head Wire Arc Spray Booth venting to the South Head Dust Collector
The following AF emission points vent inside the building unless otherwise indicated		
AF-009	68M-7780	Baking Soda Abrasive Blast Station equipped with a cartridge dust collector
AF-010	--	Polishing station controlled by a downdraft dust collector
AF-011	68M-1192	Crankshaft grinding operations controlled by a dust collector
AF-012	68M-1193	Crankshaft grinding operations controlled by a dust collector
AF-020	68M-1306	3400 Cylinder heads mill equipped with a dust collector
AF-021	68M-0979	Tunnel Mill Cylinder Heads Operation equipped with a dust collector
AF-022	68M-1224	Tunnel Mill Cylinder Heads Operation equipped with a dust collector
AF-023	68M-1719	Tunnel Mill Cylinder Heads Operation equipped with a dust collector
AF-024	68M-1720	Tunnel Mill Cylinder Heads Operation equipped with a dust collector
AF-027	68M-0003	Cincinnati Cylindrical Grind Station with dust collector
AF-028	68M-1744	Rough detailing cylinder head operations controlled by a downdraft dust collector
AF-029	68M-1745	Final detailing cylinder head operations controlled by a downdraft dust collector
AF-030	68M-1204	Cylinder heads shot peen blaster equipped with a dust collector
AF-031	68M-1737	Cos-Weld Station controlled by a shared dust collector for control of welding fumes,
AF-032	68M-1738	Cos-Weld Station controlled by a shared dust collector for control of welding fumes.
AF-033	68M-1196	Robotic welding cell equipped with a dust collector
AF-036	68M-1413 68M-1428 68M-1429 68M-1775 68M-1896	Five (5) Cylinder Head Detail Booths equipped with dust collectors
AF-039	68M-7846 68M-7847 68M-1748	Cobot automated rough detailing cylinder head operations equipped with a dust collector venting to the atmosphere
AF-040	68M-7701 68M-7708	ECB Wire Arc Spray Booth 1 venting to outside dust collector venting to atmosphere
AF-041	68M-7702 68M-7707	ECB Wire Arc Spray Booth 2 venting to outside dust collector venting to atmosphere

Emission Point	Facility ID	Description
AG-000	**--**	**Storage Tanks (excluding tanks qualifying as insignificant activities)**
AG-001	--	One (1) 26,000-Gallon Wastewater Storage Tank (Cardinal Drive facility)
AG-002	--	Gasoline dispensing operations, including one 250-gallon gasoline tank (Cardinal Drive facility)
AH-000	**--**	**Large Engine Facility (LEF) Operations**
AH-001	--	Oil/Water Separator
AH-003	--	Paint Booth High Pressure Washer
AH-004	--	Wire Arc Spray Booth equipped with a shared dust collector controlling Emission Point AH-007
AH-005	--	Paint Spray Booth equipped with a filter
AH-006	--	Engine Block Washer
AH-007	--	Wire Arc Spray Booth equipped with a shared dust collector controlling Emission Point AH-004
AH-008	--	Primer Booth equipped with a filter
AH-009	--	Spray Paint Booth equipped with a filter
AH-010	--	Spray Paint Booth equipped with a filter

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) and (b):

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

(b) Emissions resulting from soot blowing operations shall be permitted provided such emissions do not exceed sixty (60) percent opacity and provided further that the aggregate duration of such emissions during any twenty-four (24) hour period does not exceed ten (10) minutes per billion BTU gross heating value of fuel in any one hour.

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

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

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

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

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

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

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

B. EMISSION POINT SPECIFIC EMISSION LIMITATIONS & STANDARDS

Emission Point(s)	Applicable Requirement	Condition Number	Pollutant / Parameter	Limit / Standard
AA-000	11 Miss. Admin. Code Pt. 2, R. 2.2.B(10)., as established in the TVOP issued DATE, and modified DATE [MACT Avoidance Limit]	3.B.1	HAP	≤ 9.0 tpy for each individual HAP and ≤ 24.0 tpy for combined HAPs (12-month rolling total limits)
	11 Miss. Admin. Code Pt. 2, R. 2.2.B(10)., as established in the TVOP issued October 7, 2013, and modified DATE	3.B.2	VOC	≤ 240.0 tpy (12-month rolling total)
AB-000 AD-000	11 Miss. Admin. Code Pt. 2, R. 1.3.D(1)(a).	3.B.3	PM (filterable only)	≤ 0.6 lb/MMBtu
AB-001 AB-003 AB-004 AB-005	40 CFR 63, Subpart ZZZZ - NESHAP for Stationary Reciprocating Internal Combustion Engines (RICE) 40 CFR 63.6580, 63.6585, and 63.6590(a)(1)(iii), (a)(2)(iii), and (c)(1), Subpart ZZZZ	3.B.4	HAP	Applicability
AB-004	40 CFR Part 60, Subpart IIII - Standards of Performance for Stationary Compression Ignition Internal Combustion Engines 40 CFR 60.4200(a)(2)(i), 60.4218, and Table 8, Subpart IIII	3.B.5	NMHC+NO_x PM (filterable only), CO, SO_2	Applicability
	40 CFR 60.4205(b), 60.4202(a)(2), 60.4206, Subpart IIII 40 CFR Part 1039, Appendix I, and 40 CFR 1039.105	3.B.6	NMHC+NO_x	≤ 4.0 g/kW-hr
			CO	≤ 3.5 g/kW-hr
			PM (filterable only)	≤ 0.2 g/kW-hr
			Opacity	Limits for acceleration and lugging modes. See condition.
	40 CFR 60.4207(b), Subpart IIII 40 CFR 1090.305	3.B.7	SO_2 (Diesel Fuel Requirements)	Max sulfur content of diesel fuel ≤15 ppm Min. cetane index of 40 or max aromatic content of 35 volume percent.

Emission Point(s)	Applicable Requirement	Condition Number	Pollutant / Parameter	Limit / Standard
AB-005	40 CFR Part 60, Subpart JJJJ - Standards of Performance for Stationary Spark Ignition Internal Combustion Engines 40 CFR 60.4230(a)(4)(iv), 60.4246, and Table 3, Subpart JJJJ	3.B.8	NO_x, CO, VOC	Applicability
	40 CFR 60.4233(d), 60.4234, and Table 1, Subpart JJJJ	3.B.9	NO_x + HC	≤ 10.0 g/HP-hr
			CO	≤ 387.0 g/HP-hr
AB-001 AB-003 AB-004 AB-005	40 CFR 63.6640(f)(1), (2), and (4), Subpart ZZZZ 40 CFR 60.4211(f)(1)-(3), Subpart IIII 40 CFR 60.4243(d)(1)-(3), Subpart JJJJ	3.B.10	Hours of operation	Non-emergency operating requirements
AF-003 AF-006a AF-006b AF-039 AF-040 AF-041 AH-004 AH-005 AH-007 through AH-010	11 Miss. Admin. Code Pt. 2, R. 2.2.B(10)., as established in the TVOP issued DATE	3.B.11	PM, PM_{10}, $PM_{2.5}$ (filterable only)	Route emissions to dust collectors at all times
AG-002	40 CFR Part 63, Subpart CCCCCC – NESHAP for Source Category: Gasoline Dispensing Facilities 40 CFR 63.11111(a) (b), and (i), 63.11130, and Table 3, Subpart CCCCCC	3.B.12	HAPs	Applicability

3.B.1 For Emission Point AA-000 (Facility-Wide), the permittee shall limit emissions of each individual hazardous air pollutant (HAP) to 9.0 tons per year (tpy) and total combined HAPs to 24.0 tpy, as determined on a consecutive 12-month rolling total basis.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.2.B(10)., as established in the TVOP issued DATE, and modified DATE [MACT Avoidance Limit])

3.B.2 For Emission Point AA-000 (Facility-Wide), the permittee shall limit the total emissions of volatile organic compounds (VOC) to 240.0 tons per year (tpy), as determined on a consecutive 12-month rolling total basis.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.2.B(10)., as established in the TVOP issued October 7, 2013, and modified DATE)

3.B.3 For Emission Points AB-000 and AD-000, emissions of particulate matter from fossil fuel burning installations of less than 10 MMBtu/hr heat input shall not exceed 0.6 lb/MMBtu.

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

3.B.4 For Emission Points AB-001, AB-003, AB-004, and AB-005, the permittee is subject to and shall comply with all applicable requirements of the National Emission Standards for Hazardous Air Pollutants (HAP) for Stationary Reciprocating Internal Combustion Engines (RICE), 40 CFR Part 63, Subpart ZZZZ and the applicable General Provisions of Subpart A as required by 40 CFR 63.6665.

Emission Points AB-001 and AB-003 are considered existing emergency RICE located at an area source and are subject to the requirements of Subpart ZZZZ. Emission Points AB-004 and AB-005 are considered new emergency RICE that must meet the requirements of Subpart ZZZZ by meeting the requirements of 40 CFR Part 60, Subparts IIII and JJJJ, respectively. No further requirements of Subpart ZZZZ apply to Emission Points AB-004 and AB-005.

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

3.B.5 Emission Point AB-004 is subject to and shall comply with all applicable requirements of the Standards of Performance for Stationary Compression Ignition Internal Combustion Engines, 40 CFR 60, Subpart IIII, and the applicable General Provisions in 40 CFR 60, Subpart A, a required in Table 8 to Subpart IIII.

(Ref.: 40 CFR 60.4200(a)(2)(i), 60.4218, and Table 8 to Subpart IIII)

3.B.6 For Emission Point AB-004, the permittee shall operate and maintain the engine such that it achieves the following emission standards for the life of the engine:

(a) Non-methane hydrocarbon and nitrogen oxides (NMHC + NO_x) ≤ 4.0 g/kW-hr

(b) Carbon monoxide (CO) ≤ 3.5 g/kW-hr

(c) PM ≤ 0.2 g/kW-hr

(d) Opacity shall not exceed:

(1) 20 percent during the acceleration mode,

(2) 15 percent during the lugging mode, and

(3) 50 percent during the peaks in either the acceleration or lugging modes.

(Ref.: 60.4205(b), 60.4202(a)(2), and 60.4206, Subpart IIII, and 40 CFR Part 1039, Appendix I and 40 CFR 1039.105)

3.B.7 For Emission Point AB-004, the permittee shall use diesel fuel that meets the following per gallon standards:

(a) Maximum sulfur content of ≤ 15 ppm, and

(b) Minimum cetane index of 40 or a maximum aromatic content of 35 volume percent.

(Ref.: 40 CFR 60.4207(b), Subpart IIII and 40 CFR 1039.305)

3.B.8 Emission Point AB-005 is subject to and shall comply with all applicable requirements of the Standards of Performance for Stationary Spark Ignition Internal Combustion

Engines, 40 CFR 60, Subpart JJJJ, and the applicable General Provisions of 40 CFR 60, Subpart A, as required in Table 3 to Subpart JJJJ.

(Ref.: 40 CFR 60.4230(a)(4)(iv), 60.4246, and Table 3, Subpart JJJJ)

3.B.9 For Emission Point AB-005, the permittee shall operate and maintain the engine such that it meets the following standards over the entire life of the engine.

(a) $NO_x + HC \leq 10$ g/HP-hr

(b) $CO \leq 387$ g/HP-hr

(Ref.: 40 CFR 60.4233(d), 60.4234, and Table 1, Subpart JJJJ)

3.B.10 For Emission Points AB-001, AB-003, AB-004, and AB-005, the permittee must operate the emergency stationary RICE according to the following requirements. In order for the engines to be considered an emergency stationary RICE, any operation other than emergency operation, maintenance and testing, and operation in non-emergency situations for 50 hours per year, as described below, is prohibited. If the permittee does not operate the engine according to the requirements in paragraphs (a) through (c), the engine will not be considered an emergency engine under the applicable subpart and must meet all requirements for non-emergency engines.

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

(b) The permittee may operate the emergency stationary RICE for a maximum of 100 hours per calendar year for non-emergency use. Any operation for non-emergency situations as allowed by paragraph (c) counts as part of the 100 hours per calendar year allowed by this paragraph (b). The emergency stationary RICE may be operated for maintenance checks and readiness testing, provided that the tests are recommended by federal, state or local government, the manufacturer, the vendor, the regional transmission organization or equivalent balancing authority and transmission operator, or the insurance company associated with the engine. The permittee may petition the DEQ for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the permittee maintains records indicating that federal, state, or local standards require maintenance and testing of emergency RICE beyond 100 hours per calendar year.

(c) The emergency stationary RICE 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 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 an electric grid or otherwise supply power as part of a financial arrangement with another entity.

(Ref.: 40 CFR 63.6640(f)(1), (2), and (4), Subpart ZZZZ; 40 CFR 60.4243(d)(1)-(3), Subpart JJJJ; and 40 CFR 60.4211(f)(1)-(3), Subpart IIII)

3.B.11 For Emission Points AF-003, AF-006a, AF-006b, AF-007, AF-039, AF-040, AF-041, AH-004, AH-005, and AH-007 through AH-010, the permittee shall install, operate, and

maintain dust collectors on each emission point. Emissions from these units shall be routed through the respective dust collectors at all times when operating.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.2.B(10)., as established in the Title V Operating Permit issued DATE)

3.B.12 For Emission Point AG-002, the permittee is subject to and shall comply with all applicable requirements of the NESHAP for Source Category: Gasoline Dispensing Facilities, 40 CFR Part 63, Subpart CCCCCC, and the applicable requirements found in the General Provisions, 40 CFR Part 63, Subpart A, as required in Table 3 of Subpart CCCCCC.

For the purpose of this permit, the maximum monthly gasoline throughput is less than 10,000 gallons of gasoline for the gasoline dispensing facility (GDF) as defined in 40 CFR 63.11132; therefore, the permittee shall comply with the applicable requirements as set forth in Conditions 3.D.4 and 3.D.5

If the maximum monthly gasoline throughput exceeds 10,000 gallons, the permittee shall comply with the applicable requirements specified in 40 CFR 63.11117, Subpart CCCCCC. Thereafter, the permittee shall remain subject to the requirements for monthly gasoline throughput above the 10,000-gallon threshold even if the throughput later returns below 10,000 gallons.

(Ref.: 40 CFR 63.11111(a), (b), and (i), 63.11130, and Table 3, Subpart CCCCCC)

C. INSIGNIFICANT AND TRIVIAL ACTIVITY EMISSION LIMITATIONS & STANDARDS

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

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

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

3.C.2 The maximum discharge of sulfur oxides from any fuel burning installation in which the fuel is burned primarily to produce heat or power by indirect heat transfer shall not exceed 4.8 pounds (measured as sulfur dioxide) per MMBTU heat input.

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

D. WORK PRACTICE STANDARDS

Emission Point(s)	Applicable Requirement	Condition Number	Pollutant / Parameter	Limit / Standard
AB-001 AB-003	40 CFR 63.6603(a) and Table 2d, Subpart ZZZZ	3.D.1	HAPs	Maintenance requirements
	40 CFR 63.6625(e)(3), 63.6640(a), and Table 6, Subpart ZZZZ	3.D.2		Operating requirements
	40 CFR 63.6625(h), Subpart ZZZZ	3.D.3		Minimize startup and idle time
AG-002	40 CFR 63.11115(a), Subpart CCCCCC	3.D.4	HAPs	General duty clause
	40 CFR 63.11116(a) and (d), Subpart CCCCCC	3.D.5		Minimize extended vapor releases

3.D.1 For Emission Points AB-001 and AB-003, the permittee shall comply with the following requirements:

(a) Change oil and filter every 500 hours of operation or within 1 year + 30 days of the previous change, whichever comes first, or perform an oil analysis at the same frequency in order to extend the oil change requirement in accordance with 40 CFR 63.6625(i) or (j).

(b) Inspect air cleaner every 1,000 hours of operation or within 1 year + 30 days, whichever comes first, and replace as necessary.

(c) Inspect all hoses and belts every 500 hours of operation or within 1 year + 30 days, whichever comes first, and replace as necessary.

If the engine is operating during an emergency and it is not possible to shut down the engine in order to perform the management practices according to the schedule in paragraphs (a) through (c) above, 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. The facility shall 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 with the semiannual report required by Condition 5.A.4.

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

3.D.2 For Emission Points AB-001 and AB-003, the permittee shall operate and maintain the engines according to the manufacturer's emission-related written instructions or develop a maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practices for minimizing emissions.

(Ref.: 40 CFR 63.6625(e)(3), 63.6640(a), and Table 6, Subpart ZZZZ)

3.D.3 For Emission Points AB-001 and AB-003, the permittee shall minimize each engine's time spent at idle during startup and minimize each engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes.

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

3.D.4 For Emission Point AG-002, the permittee shall operate and maintain the GDF (including associated air pollution control equipment and monitoring equipment) in a manner consistent with safety and good air pollution control practices for minimizing emissions. The determination of whether such operation and maintenance procedures are being used will be based on information available to the DEQ, which may include (but is not limited to) monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source.

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

3.D.5 For Emission Point AG-002, the permittee shall not handle gasoline in a manner that would result in vapor releases to the atmosphere for extended periods of time. The measures to be taken include (but are not limited to) the following items:

(a) Minimize gasoline spills;

(b) Clean up spills as expeditiously as practicable;

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

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

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

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

SECTION 4. COMPLIANCE SCHEDULE

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

4.2 Except as otherwise specified herein, the permittee shall submit to the Permit Board and to the Administrator of EPA Region IV a certification of compliance with terms and conditions contained in this permit (including emission limitations, standards, or work practices) by January 31 of each year for the preceding calendar year. If the permit was reissued or modified during the course of the preceding calendar year, the compliance certification shall address each version of the permit. Each compliance certification shall include the following information:

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

(b) The compliance status;

(c) Whether compliance was continuous or intermittent;

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

(e) Such other facts as may be specified as pertinent in specific conditions elsewhere in this permit.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.C(5)(a), (c), and (d).)

SECTION 5. MONITORING, RECORDKEEPING & REPORTING REQUIREMENTS

A. GENERAL MONITORING, RECORDKEEPING AND REPORTING REQUIREMENTS

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

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

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

(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 of each calendar year for the preceding six-month period. All instances of deviations from permit requirements must be clearly identified in such reports and all required reports must be certified by a responsible official consistent with Regulation 11 Miss. Admin. Code Pt. 2, R. 6.2.E.

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

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

(Ref.: 40 CFR 60.19(c), 61.10(g), and 63.10(a)(5))

5.A.5 Except as otherwise specified herein, the permittee shall report all deviations from permit requirements (including those attributable to upsets), the probable cause of such

deviations, and any corrective actions or preventive measures taken. The report shall be made within five (5) working days of the time the deviation began.

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

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

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

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

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

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

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

B. SPECIFIC MONITORING AND RECORDKEEPING REQUIREMENTS

Emission Point(s)	Applicable Requirement	Condition Number	Pollutant / Parameter Monitored	Monitoring / Recordkeeping Requirement
AA-000	11 Miss. Admin. Code Pt. 2, R. 6.2.A(3)(a)(2).	5.B.1	VOC and HAP	Monitor and record monthly usage of VOC- and HAP-containing materials
AB-001 AB-003	40 CFR 63.6655(a)(1), (2), (5) and (e)(3) and 63.6660, Subpart ZZZZ	5.B.2	Malfunctions and maintenance	General recordkeeping requirements
	40 CFR 63.6625(f) and 63.6655(f), Subpart ZZZZ	5.B.3	Hours of operation	Install non-resettable hour meter and record hours of operation
AB-004	40 CFR 60.4209(a) and 60.4214(b), Subpart IIII			
AB-005	40 CFR 60.4237 and 60.4245(b), Subpart JJJJ			
AB-004	40 CFR 60.4211(a)(1)-(3) and (c), Subpart IIII	5.B.4	NMHC+NO_x, PM (filterable only), CO	Purchase, operate, and maintain a certified engine
	11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)(a)(2).	5.B.5	Fuel specifications	Maintain records of diesel purchased
AB-005	40 CFR 60.4243(b)(1), Subpart JJJJ	5.B.6	NO_x, CO, VOC	Purchase, operate, and maintain a certified engine
	40 CFR 60.4245(a)(1)-(3), Subpart JJJJ	5.B.7	Notifications and maintenance	General recordkeeping requirements
AF-003 AF-006a AF-006b AF-039 AF-040 AF-041 AH-004 AH-005 AH-007 through AH-010	11 Miss. Admin. Code Pt. 2, R. 6.2.A(3)(a)(2).	5.B.8	Visible emissions	Conduct weekly observations for visible emissions
AG-002	40 CFR 63.11111(e) and 63.11116(b), Subpart CCCCCC	5.B.9	Gasoline throughput	Records of monthly gasoline throughput

5.B.1 For Emission Point AA-000, to demonstrate compliance with the facility-wide VOC and HAP limits in Conditions 3.B.1 and 3.B.2, the permittee shall monitor and record the following information for each calendar month:

(a) For coatings, solvents, and other materials containing VOCs and HAPs that may volatilize during use:

(1) Identification of each used.

(2) Quantity used each month (in gallons or pounds).

(3) Content (lb/gal) or percent by weight of VOCs and HAPs. VOC and HAP content may be supplied by the manufacturer, or the permittee may determine the VOC and HAP content by EPA Test Method 24 and/or 311 in 40 CFR 60, Appendix A.

(4) Density (lb/gal), if necessary to determine the usage in weight.

(b) Natural gas and diesel usage.

(c) Type and quantity of welding rods/wire used.

(d) Other material usage, hours of operation, parts throughputs, etc. necessary to determine emissions of metal HAPs generated during cutting, routing, grinding, etc.

The permittee shall determine the monthly emissions of VOC, individual HAP, and total HAP using the information above and the emission factors and calculation methodology approved in the most recent Title V application. The permittee shall calculate the 12-month rolling total VOC and HAP emissions each calendar month.

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

5.B.2 For Emission Points AB-001 and AB-003, the permittee shall keep the following records:

(a) A copy of each notification and report submitted to comply with Subpart ZZZZ.

(b) Records of the occurrence and duration of each malfunction of an engine or hour meter.

(c) Records of actions taken during periods of malfunction to minimize emissions, including corrective actions to restore a malfunctioning engine or hour meter to its normal manner of operation.

(d) Records of the maintenance conducted on each engine in order to demonstrate the engines were operated and maintained in accordance to the maintenance plan.

All records shall be in a form suitable and ready for expeditious review for a period of five (5) years after the date of each occurrence, measurement, maintenance, corrective action, report, or record. These records may be kept in an electronic or hard copy format.

(Ref.: 40 CFR 63.6655(a)(1), (2), (5) and (e)(3), and 63.6660, Subpart ZZZZ)

5.B.3 For Emission Points AB-001, AB-003, AB-004, and AB-005, the permittee shall install a non-resettable hour meter on each engine, if one is not already installed. The permittee shall keep records of the operation of each engine in emergency and non-emergency service that are recorded through the hour meter. The permittee shall record the time of operation and the reason each engine was in operation during that time.

(Ref.: 40 CFR 63.6625(f) and 63.6655(f), Subpart ZZZZ; 40 CFR 60.4209(a) and 60.4214(b), Subpart IIII; and 40 CFR 60.4237 and 60.4245(b), Subpart JJJJ)

5.B.4 For Emission Point AB-004, the permittee shall comply with the emission standards contained in Condition 3.B.6 by purchasing, installing, operating, and maintaining the engine certified to meet the emission standards. The permittee shall operate and maintain the engines in accordance with the manufacturer's emission-related written instructions

and can only change the emission-related settings that are permitted by the manufacturer. The permittee shall meet the applicable requirements of 40 CFR Part 1068.

(Ref.: 40 CFR 60.4211(a)(1)-(3) and (c), Subpart IIII)

5.B.5 For Emission Point AB-004, the permittee shall maintain records documenting the diesel fuel meets the requirements of 40 CFR 1090.305 for nonroad diesel fuel.

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

5.B.6 For Emission Point AB-005, the permittee shall demonstrate compliance with the emission standards in Condition 3.B.9 by purchasing a certified engine and operating and maintaining the certified engine according to the manufacturer's emission-related written instructions. The permittee may adjust engine settings provided the adjustments are consistent with the manufacturer's instructions.

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

5.B.7 For Emission Point AB-005, the permittee shall keep the following records:

(a) A copy of all notifications submitted to comply with Subpart JJJJ and any corresponding supporting information.

(b) Records documenting the maintenance conducted on the engine.

(c) Documentation from the engine manufacturer that the engine is certified to meet the emission standards.

(Ref.: 40 CFR 60.4245(a)(1)-(3), Subpart JJJJ)

5.B.8 For Emission Points AF-003, AF-006a, AF-006b, AF-007, AF-039, AF-040, AF-041, AH-004, AH-005, and AH-007 through AH-010, the permittee shall conduct weekly observations for visible emissions from each dust collector using the procedures in EPA Method 22 (40 CFR Part 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 as determined by a subsequent visible emissions observation.

(b) If visible emissions are not eliminated within 24 hours, discontinue operation of the emission unit until such time as the dust collector is restored to no visible emissions.

The permittee shall maintain a log of the visible emissions observations, including the emission point ID, date, time, and person conducting the observations and the result of each observation. If the observation notes any visible emissions, the permittee shall also record any corrective measures taken to restore the operation to no visible emissions and subsequent visible emissions observations. The permittee shall also maintain sufficient equipment on-site to conduct any necessary maintenance, including replacement of bags or cartridges.

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

5.B.9 For Emission Point AG-002, the permittee shall maintain documentation of the total gasoline throughput (in gallons) on a monthly basis.

(Ref.: 40 CFR 63.11111(e) and 63.11116(b), Subpart CCCCCC)

C. SPECIFIC REPORTING REQUIREMENTS

Emission Point(s)	Applicable Requirement	Condition Number	Pollutant / Parameter Monitored	Reporting Requirement
AA-000	11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)(c)(1).	5.C.1	VOC and HAP	Report monthly and 12-month rolling total VOC and HAP emissions and supporting documentation
AB-001 AB-003 AB-004 AB-005	11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)(c)(1).	5.C.2	Hours of Operation	Annual report summarizing hours of operation in emergency and non-emergency use
AF-003 AF-006a AF-006b AF-039 AF-040 AF-041 AH-004 AH-005 AH-007 through AH-010	11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)(c)(1).	5.C.3	Weekly visible observation	Submit logs of weekly visible emissions observations

5.C.1 For Emission Point AA-000 (Facility-Wide), the permittee shall submit the information recorded in Condition 5.B.1, including sample calculations used to determine the monthly VOC and HAP emissions. This information shall include the 12-month rolling total VOC, individual HAP, and total HAP emissions for the previous semiannual period and shall be submitted according to Condition 5.A.4.

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

5.C.2 For Emission Points AB-001, AB-003, AB-004, and AB-005, the permittee shall submit an annual report on January 31st for the preceding calendar year summarizing the hours of operation of each engine that is recorded through the non-resettable hour meter. The permittee must 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.

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

5.C.3 For Emission Points AF-003, AF-006a, AF-006b, AF-007, AF-039, AF-040, AF-041, AH-004, AH-005, and AH-007 through AH-010, the permittee shall submit a copy of the weekly logs required by Condition 5.B.8 with the semiannual report required by Condition 5.A.4.

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

SECTION 6. ALTERNATIVE OPERATING SCENARIOS

6.1 None permitted.

SECTION 7. TITLE VI REQUIREMENTS

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

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

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

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

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

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

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

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

(a) Servicing, maintaining, or repairing appliances containing class I, class II or non-exempt substitute refrigerants;

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

(c) Refrigerant reclaimers, technician certifying programs, appliance owners and operators, manufacturers of appliances, manufacturers of recycling and recovery equipment, approved recycling and recovery equipment testing organizations, as well as persons selling, offering for sale, and/or purchasing class I, class II, or non-exempt substitute refrigerants.

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

for the acceptable alternative substance.

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

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

(b) Any person disposing of halons;

(c) Manufacturers of halon blends; or

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

APPENDIX A

List of Abbreviations Used In this Permit

BACT	Best Available Control Technology
CEM	Continuous Emission Monitor
CEMS	Continuous Emission Monitoring System
CFR	Code of Federal Regulations
CO	Carbon Monoxide
COM	Continuous Opacity Monitor
COMS	Continuous Opacity Monitoring System
DEQ	Department of Environmental Quality
EPA	Environmental Protection Agency
gr/dscf	Grains Per Dry Standard Cubic Foot
HP	Horsepower
HAP	Hazardous Air Pollutant
HC	Hydrocarbon
lb/hr	Pounds per Hour
M or K	Thousand
MACT	Maximum Achievable Control Technology
MM	Million
MMBtu/hr	Million British Thermal Units per Hour
NA	Not Applicable
NAAQS	National Ambient Air Quality Standards
NESHAP	National Emissions Standards for Hazardous Air Pollutants, 40 CFR Part 61; or National Emission Standards for Hazardous Air Pollutants for Source Categories, 40 CFR Part 63
NMHC	Non-Methane Hydrocarbon
NO_X	Nitrogen Oxides
NSPS	New Source Performance Standards, 40 CFR Part 60
O&M	Operation and Maintenance
PM	Particulate Matter
PM_{10}	Particulate Matter less than 10 µm in diameter
$PM_{2.5}$	Particulate Matter less than 2.5 µm in diameter
ppm	Parts per Million
PSD	Prevention of Significant Deterioration
SIP	State Implementation Plan
SO_2	Sulfur Dioxide
SSM	Startup, Shutdown, and Malfunction
TPY	Tons per Year
TRS	Total Reduced Sulfur
VEE	Visible Emissions Evaluation
VHAP	Volatile Hazardous Air Pollutant
VOHAP	Volatile Organic Hazardous Air Pollutant
VOC	Volatile Organic Compound

APPENDIX B

LIST OF REGULATIONS REFERENCED IN THIS PERMIT

The full text of the regulations referenced in this permit may be found on-line at https://www.mdeq.ms.gov/regulations/ and https://www.ecfr.gov/. A list of regulations referenced in this permit is shown below:

11 Miss. Admin. Code, Part 2, Ch. 1. – Air Emission Regulations for the Prevention, Abatement, and Control of Air Contaminants (Amended May 24, 2018)

11 Miss. Admin. Code, Part 2, Ch. 2. – Permit Regulations for the Construction and/or Operation of Air Emissions Equipment (Amended February 22, 2024)

11 Miss. Admin. Code, Part 2, Ch. 6. – Air Emission Operating Permit Regulations for the Purposes of Title V of the Federal Clean Air Act (Amended June 27, 2024)

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

40 CFR Part 60, Subpart A – General Provisions

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

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

40 CFR Part 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 Part 63, Subpart CCCCCC - National Emission Standards for Hazardous Air Pollutants for Source Category: Gasoline Dispensing Facilities