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) 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: MAR 17 2020

Effective Date: As specified herein.

MISSISSIPPI ENVIRONMENTAL QUALITY PERMIT BOARD

Krystal R. Rodgers

AUTHORIZED SIGNATURE
MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY

Expires: February 28, 2025 **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 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 Prior to its expiration, this permit may be reopened in accordance with the provisions listed below.

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

(1) Additional applicable requirements under the Federal Act become applicable to a major Title V source with a remaining permit term of 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).)

(c) If at any time within the year the Commission determines that the information submitted by the permittee on actual emissions is insufficient or incorrect, the permittee will be notified of the deficiencies and the adjusted fee schedule. Past due fees from the adjusted fee schedule will be paid on the next scheduled quarterly payment time.

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

(d) The fee shall be due September 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.)

(e) If in disagreement with the calculation or applicability of the Title V permit fee, the permittee may petition the Commission in writing for a hearing in accordance with State Law. Any disputed portion of the fee for which a hearing has been requested will not incur any penalty or interest from and after the receipt by the Commission of the hearing petition.

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

1.9 No permit revision shall be required under any approved economic incentives, marketable permits, emissions trading and other similar programs or processes for changes that are provided for in this permit.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.A(8).)

1.10 Any document required by this permit to be submitted to the 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, Subpart I, or 40 CFR 51.166; or

(2) the source is approved to use under any permit issued under 40 CFR 52.21 or under regulations approved pursuant to 40 CFR Part 51, Subpart I, or 40 CFR 51.166;

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

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

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

1.21 Any change in ownership or operational control must be approved by the Permit Board.

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

1.22 This permit is a Federally approved operating permit under Title V of the Federal Clean Air Act as amended in 1990. All terms and conditions, including any designed to limit the source's potential to emit, are enforceable by the Administrator and citizens under the Federal Act as well as the Commission.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.B(1).)

1.23 Except as otherwise specified or limited herein, the open burning of residential, commercial, institutional, or industrial solid waste, is prohibited. This prohibition does not apply to infrequent burning of agricultural wastes in the field, 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 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 provision with respect to emergencies:

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

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

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

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

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

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

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

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

(e) This provision is in addition to any emergency or upset provision contained in any applicable requirement specified elsewhere herein.

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

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

(a) Upsets (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 5 working days of the time the upset began, the source submitted a written report to the Department describing the upset, the steps taken to mitigate excess emissions or any other

noncompliance, and the corrective actions taken and;

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

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

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

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

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

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

(2) Where the source is unable to comply with existing emission limitations established under the State Implementation Plan (SIP) and defined in this regulation, 11 Mississippi Administrative Code, Part 2, Chapter 1, the Department will consider establishing source specific emission limitations or work practice standards for startups and shutdowns. Source specific emission limitations or work practice standards established for startups and shutdowns are subject to the requirements prescribed in 11 Miss. Admin. Code Pt. 2, R. 1.10.B(2)(a) through (e).

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

(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.

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

SECTION 2. EMISSION POINTS & POLLUTION CONTROL DEVICES

Emission Point	Description
AA-000	**Corinth Operations (AB-000 through AH-000)**
AB-000	**Emergency Backup Power Generators**
AB-001	Diesel Engine Backup Emergency Generator (599 HP unit located at Sawyer Road)
AB-003	Diesel Engine Backup Emergency Generator (660 HP unit located at Cardinal Drive)
AB-004	Diesel Engine Backup Emergency Generator (708 HP unit located at the Logistics Center)
AB-005	Natural Gas Engine Backup Emergency Generator (80 HP unit located at the LEF)
AC-000	**Metal Preparation and Coating Operations**
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 and 68M-373-7)	7-Stage Salt Bath
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-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
AC-033 (Ref. 68M-1118)	Diesel Engine Crankshafts Prep Washer
AC-035	Facility Wide Tool Flush and Clean Operations

Emission Point	Description
AC-043 (Ref. 68M-002)	Diesel Engine Crankshaft Journal Flusher and Cleaner
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	Baking Soda (Armex) Blaster 1
AC-069	Baking Soda (Armex) Blaster 2
AC-070	Laser Cladding Operation
AC-071	Aluminum Washer
AC-072	Warranty Review Tank
AC-073	Salvage Development Area Tanks and Operations
AC-074	Electric Heated Washer
AC-075	Salvage Development Area Dunker Tank

Emission Point	Description
AC-076	Facility-wide Mazaks
AC-077	Dunker Tank
AC-078	Dunker Tank
AC-079	1,300 Gallon Crankshaft Washer Tank
AC-080	1,300 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
AC-086	1,000 Gallon Crankshaft Washer Tank
AD-000	**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	**Fuel Burning Equipment**
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
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

Emission Point	Description
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	Facility-Wide Natural Gas-fired fuel burning equipment 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	**Metal Surface Preparation Operations**
AF-001	Crankshaft Shotpeen Operations (Ref. 68M-0283) equipped with a 99.0% efficient Pangborn Dust Collector (Ref. 68M-0049)
AF-002	Cylindrical Head Blasting Operation (Ref. 68M-0406) equipped with a 99.0% efficient Wheelabrator Dust Collector (Ref. 68M-1640)
AF-003	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	Wire Spray Processes and Laser Blasting equipped with a 99.0% efficient Dustex Industrial Dust Collector
AF-006	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	Bore Spray Operation (Ref. 68M-1792 vents to 68M-1790)
AF-008	Dust Collector for Baking Soda Blast Cabinet that vents inside
AF-009	Downflow dust Collector for hand blasting operation that vents inside
AF-010	Polishing Station with downdraft Dust Collector
AF-011	Dust collector for grinding operation in crankshaft
AF-012	Dust collector for grinding operation in crankshaft
AF-013	Dust collector for grinding operation in crankshaft
AF-014	Dust collector for grinding operation in crankshaft
AF-015	Dust collector for grinding operation in crankshaft
AF-016	Dust collector for crankshaft belt sander
AF-017	Dust collector for crankshaft belt sander

Emission Point	Description
AF-018	Valve Stem Grinder with dust collector that vents inside
AF-019	Sandstrand grinding mill with dust collector vented inside
AF-020	3400 Cylinder Heads mill with dust collector vented inside
AF-021	Tunnel Cylinder Heads mill with dust collector vented inside
AF-022	Tunnel Cylinder Heads mill with dust collector vented inside
AF-023	Mist Collector (DMC-C) vented inside
AF-024	Mist Collector (DMC-C) vented inside
AF-025	Dust Collector on Tunnel 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 dust collector vented inside
AF-031	Cos-Weld Station with Stick Rod electrodes
AF-032	Cos-Weld Station with Stick Rod electrodes
AF-033	Robotic welding cell vented through dust collector
AF-034	Dust Collector on cylinder head detail booth vented inside
AF-035	Downdraft table vented inside
AF-036	Five (5) Cylinder Head Detail Booth
AF-038	Micro Laser Weld Operation
AG-001	One (1) 26,000 Gallon Wastewater Storage Tank
AH-000	**Large Engine Facility (LEF) 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

Emission Point	Description
AH-011	5-Stage Phosphate Coating Washer

SECTION 3. EMISSION LIMITATIONS & STANDARDS

A. Facility-Wide Emission Limitations & Standards

3.A.1 Except as otherwise specified or limited herein, the permittee shall not cause, permit, or allow the emission of smoke from a point source into the open air from any manufacturing, industrial, commercial or waste disposal process which exceeds forty (40) percent opacity subject to the exceptions provided in (a) & (b).

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

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

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

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

B. Emission Point Specific Emission Limitations & Standards

Emission Point(s)	Applicable Requirement	Condition Number(s)	Pollutant/ Parameter	Limit/Standard
AA-000	11 Miss. Admin. Code Pt. 2, R.	3.B.1	HAP	9.9 TPY for each individual HAP and

Emission Point(s)	Applicable Requirement	Condition Number(s)	Pollutant/ Parameter	Limit/Standard
	2.2.B.(10).			24.9 TPY for combined HAPs (MACT Avoidance Limit)
		3.B.2	VOC	249.0 TPY (PSD Avoidance Limit)
		3.B.3	PM	$E = 4.1p^{0.67}$
AB-000, AD-000, and AE-000	11 Miss. Admin. Code Pt. 2, R. 1.3.D(1)(a).	3.B.4	PM	0.6 lbs/MMBTU
AB-000 and AE-000	11 Miss. Admin. Code Pt. 2, R. 1.4.A(1).	3.B.5	SO_2	4.8 lbs/MMBTU
AB-001, AB-003, AB-004, and AB-005	National Emission Standards of Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (RICE), 40 CFR Part 63, Subpart ZZZZ. 40 CFR 63.6580, 40 CFR 63.6585(a) & (c), 40 CFR 63.6590(a)(1)(iii) & (2)(iii) & (c)(1); Subpart ZZZZ	3.B.6	HAPs	Applicability
AB-001 and AB-003	40 CFR 63.6625(e), Subpart ZZZZ	3.B.7	Operating Restriction	Minimizing Emissions
	40 CFR 63.6625(h), Subpart ZZZZ	3.B.8	Operating Restriction	Operational Requirement
	40 CFR 63.6640(f), Subpart ZZZZ and 40 CFR 63.6605, Subpart ZZZZ	3.B.9	Operating Limit	Emergency operation requirements
AB-004	40 CFR Part 60, Subpart IIII – Standards of Performance for Stationary Compression Ignition Combustion Engines 40 CFR 60.4200(a)(2)(i); Subpart IIII	3.B.10	NMHC + NOx, CO, and PM	Applicability
	40 CFR 60.4202(a)(2), Subpart IIII; 40 CFR 60.4205(b), Subpart IIII; and 40 CFR 60.4206, Subpart IIII	3.B.11		4.0 g/kW-hr NMHC + NO_x; 3.5 g/kW-hr CO; 0.2 g/kW-hr PM;
	40 CFR 60.4207(b), Subpart IIII and 40 CFR 80.510(b)	3.B.12	Operating Restriction	Sulfur content ≤ 15 ppm and Cetane index of 40 or aromatic content of 35 volume percent
	40 CFR 60.4211(f), Subpart IIII	3.B.13	Operating Limit	Emergency operation requirements
AB-005	Standards of Performance for Stationary Spark Ignition Internal Combustion Engines, 40 CFR Part 60, Subpart JJJJ 40 CFR 60.4230(a)(4)(iv) and (6), Subpart JJJJ	3.B.14	NO_x + HC and CO	Applicability
	40 CFR 60.4233(d), Subpart JJJJ; 40 CFR 60.4234, Subpart JJJJ; and Table 1 to 40 CFR 60, Subpart JJJJ	3.B.15		10 g/hp-hr NO_x + HC and 387 g/hp-/hr CO
	40 CFR 60.4243(d), Subpart JJJJ	3.B.16	Operating Limit	Emergency operation requirements
AB-001, AB-003, AB-004, and	40 CFR 63.6625(f); Subpart ZZZZ and 11 Miss. Admin. Code Pt. 2, R. 2.2.B.(10).	3.B.17	Operating Restriction	Operational Requirement

Emission Point(s)	Applicable Requirement	Condition Number(s)	Pollutant/ Parameter	Limit/Standard
AB-005				

3.B.1 For Emission Point AA-000, 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 HAPs as determined for each consecutive 12-month period on a rolling monthly basis.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.2.B.(10).)

3.B.2 For Emission Point AA-000, 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. 2.2.B.(10).)

3.B.3 For Emission Point AA-000, except as otherwise specified, the permittee shall not cause, permit, or allow the emission of particulate matter in total quantities in any one hour from any manufacturing process, which includes any associated stacks, vents, outlets, or combination thereof, to exceed the amount determined by the relationship:

$$E = 4.1\ p^{0.67}$$

where E is the emission rate in pounds per hour and p is the process weight input rate in tons per hour.

Conveyor discharge of coarse solid matter may be allowed if no nuisance is created beyond the property boundary where the discharge occurs.

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

3.B.4 For Emission Points AB-000, AD-000 and AE-000, 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.5 For Emission Point AE-000, 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.6 For Emission Points AB-001, AB-003, AB-004 and AB-005, the permittee is subject to and shall comply with all applicable provisions of 40 CFR Part 63, Subpart ZZZZ – National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (RICE), as an existing source located at an area source of HAP emissions.

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

3.B.7 For Emission Points AB-001 and AB-003, 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.

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

3.B.8 For Emission Points AB-001 and AB-003, the permittee must minimize the engine's time spent at idle and minimize the engine's startup time at startup 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 Table 2d of 40 CFR 63, Subpart ZZZZ.

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

3.B.9 For Emission Points AB-001 and AB-003, the permittee shall operate the emergency stationary RICE according to the requirements below. In order for the engines to be considered an emergency stationary RICE under 40 CFR 63 Subpart ZZZZ, 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 these requirements, the engine will not be considered an emergency engine under 40 CFR 63 Subpart ZZZZ 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 maintenance checks and readiness testing for a maximum of 100 hours per calendar year provided that the tests are recommended by Federal, State, or local government, the manufacturer, the vendor, the regional transmission organization or equivalent balancing authority and transmission operator, or the insurance company associated with the engine. The permittee may petition the MDEQ for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records that demonstrate there is a particular requirement under a previously listed authority that requires the engine to operate for more than 100 hours per calendar year.

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

The permittee shall, at all times, be in compliance with the applicable requirements of 40 CFR 63 Subpart ZZZZ and shall operate and maintain the engine in a manner consistent with safety and good air pollution control practices for minimizing emissions. The general duty to minimize emissions does not require the permittee to make any further efforts to reduce emissions if levels required by 40 CFR 63 Subpart ZZZZ have been achieved. Determination of whether such operation and maintenance procedures are being used will be based on information available to the MDEQ which may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source.

(Ref.: 40 CFR 63.6640(f) and 63.6605, Subpart ZZZZ)

3.B.10 For Emission Point AB-004, the permittee is subject to and shall comply with the applicable provisions of 40 CFR Part 60, Subpart IIII – New Source Performance Standards for Stationary Compression Ignition Internal Combustion Engines.

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

3.B.11 For Emission Point AB-004, the permittee shall not discharge into the atmosphere any gases that contain Non-Methane Hydrocarbons + Nitrogen Oxides (NMHC + NOX) in excess of 4.0 grams per kilowatt-hour (g/kW-hr); Carbon Monoxide (CO) in excess of 3.5 g/kW-hr; and Particulate Matter (PM) in excess of 0.20 g/kW-hr. The permittee shall operate and maintain the emergency generator engine in such a manner to achieve these emission standards over the entire life of the engine.

(Ref.: 40 CFR 60.4202(a)(2), 40 CFR 60.4205(b), and 40 CFR 60.4206; Subpart IIII)

3.B.12 For Emission Point AB-004, the permittee shall only use diesel fuel in each engine that has a maximum sulfur content of 15 parts per million (ppm) and either a 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 80.510(b))

3.B.13 For Emission Point AB-004, the permittee shall operate the emergency stationary RICE according to the requirements below. In order for the engine to be considered an emergency stationary RICE under 40 CFR 60 Subpart IIII, 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 these requirements, the engine will not be considered an emergency engine under 40 CFR 60 Subpart IIII 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 maintenance checks and readiness testing for a maximum of 100 hours per calendar year provided that the tests are recommended by Federal, State, or local government, the manufacturer, the vendor, the regional transmission organization or equivalent balancing authority and transmission operator, or the insurance company associated with the engine. The permittee may petition the MDEQ for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records that demonstrate there is a particular requirement under a previously listed authority that requires the engine to operate for more than 100 hours per calendar year.

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

The permittee shall, at all times, be in compliance with the applicable requirements of 40 CFR 60 Subpart IIII and shall operate and maintain the engine in a manner consistent with safety and good air pollution control practices for minimizing emissions. The general duty to minimize emissions does not require the permittee to make any further efforts to reduce emissions if levels required by 40 CFR 60 Subpart IIII have been achieved. Determination of whether such operation and maintenance procedures are being used will be based on information available to the MDEQ which may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source.

(Ref.: 40 CFR 60.4211(f), Subpart IIII)

3.B.14 For Emission Point AB-005, the permittee is subject to and shall comply with all applicable requirements of the Standards of Performance for Stationary Spark Ignition Internal Combustion Engines, 40 CFR Part 60, Subpart JJJJ.

(Ref.: 40 CFR 60.4230(a)(4)(iv) and (6), Subpart JJJJ)

3.B.15 For Emission Point AB-005, the permittee shall not discharge into the atmosphere any gases that exceed 10 grams per horsepower-hour (g/hp-hr) of Nitrogen Oxides + Hydrocarbons (NOx + HC) or 387 g/hp-hr of Carbon Monoxide (CO). The permittee shall operate and maintain the emergency generator engine in such a manner to achieve these emission standards over the entire life of the engine.

(Ref.: 40 CFR Part 60.4233(d), 40 CFR Part 60.4234, and Table 1 to 40 CFR Part 60, Subpart JJJJ)

3.B.16 For Emission Point AB-005, the permittee shall operate the emergency stationary RICE according to the requirements below. In order for the engine to be considered an emergency stationary RICE under 40 CFR 60 Subpart JJJJ, 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 these requirements, the engine will not be considered an emergency engine under 40 CFR 60 Subpart JJJJ 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 maintenance checks and readiness testing for a maximum of 100 hours per calendar year provided that the tests are recommended by Federal, State, or local government, the manufacturer, the vendor, the regional transmission organization or equivalent balancing authority and transmission operator, or the insurance company associated with the engine. The permittee may petition the MDEQ for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records that demonstrate there is a particular requirement under a previously listed authority that requires the engine to operate for more than 100 hours per calendar year.

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

The permittee shall, at all times, be in compliance with the applicable requirements of 40 CFR 60 Subpart JJJJ and shall operate and maintain the engine in a manner consistent with safety and good air pollution control practices for minimizing emissions. The general duty to minimize emissions does not require the permittee to make any further efforts to reduce emissions if levels required by 40 CFR 60 Subpart JJJJ have been achieved. Determination of whether such operation and maintenance procedures are being used will be based on information available to the MDEQ which may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source.

(Ref.: 40 CFR 60.4243(d), Subpart JJJJ)

3.B.17 For Emission Points AB-001 and AB-003 through AB-005, the permittee shall install a non-resettable hour meter on each engine.

(Ref.: 40 CFR 63.6625(f), Subpart ZZZZ and 11 Miss Admin. Code Pt. 2, R. 2.2.B.(10).)

C. Insignificant and Trivial Activity Emission Limitations & Standards

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

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

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

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

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

D. Work Practice Standards

Emission Point(s)	Applicable Requirement	Condition Number(s)	Pollutant/ Parameter	Limit/Standard
AB-001 and AB-003	40 CFR 63.6603(a) 40 CFR 63.6625(i), and Item 4 and footnotes 1 and 2 of Table 2d of Subpart ZZZZ	3.D.1	HAPs	Work Practices

3.D.1 For Emission Points AB-001 and AB-003, the permitttee 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.

The permittee has the option of utilizing an oil analysis program in order to extend the oil change requirement in Condition 3.D.1(a). The oil analysis must be performed at the same frequency specified for changing the oil in Condition 3.D.1(a). The analysis program must at a minimum analyze the following three parameters: Total Acid Number, viscosity, and percent water content. The condemning limits for these parameters are as follows: Total Acid Number increases by more than 3.0 milligrams of potassium hydroxide (KOH) per gram from Total Acid 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 permittee is not required to change the oil. If any of the limits are exceeded, the permittee shall 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 permittee shall change the oil within 2 business days or before commencing operation, whichever is later. The permittee shall 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 63.6603, 63.6625(i), and Item 4 and footnotes 1 and 2 of Table 2d of Subpart ZZZZ)

SECTION 4. COMPLIANCE SCHEDULE

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

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

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

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

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

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

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

(d) the analytical techniques or methods used;

(e) the results of such analyses; and

(f) the operating conditions existing at the time of sampling or measurement.

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

5.A.3 Except where a longer duration is specified in an applicable requirement, the permittee shall retain records of all required monitoring data and support information for a period of at least five (5) years from the date of the monitoring sample, measurement, report, or application. 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) working days of the time the deviation began.

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

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

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

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

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

B. Specific Monitoring Requirements

Emission Point(s)	Applicable Requirement	Condition Number	Pollutant/Parameter Monitored	Monitoring/Recordkeeping Requirement
AA-000	11 Miss. Admin. Code Pt. 2, R. 6.3.A(3).	5.B.1	VOC and HAPs	Monitoring and recordkeeping requirements
AF-000	11 Miss. Admin. Code Pt. 2, R. 6.3.A(3).	5.B.2	Opacity	Monitoring and recordkeeping Requirements of weekly VEEs
AB-004	11 Miss. Admin. Code Pt. 2, R. 6.3.A(3).	5.B.3	Fuel	Monitoring and recordkeeping requirements
	40 CFR 60.4211(c); Subpart IIII and 11 Miss. Admin. Code Pt. 2, R. 6.3.A(3).	5.B.4	Operations	Monitoring and recordkeeping requirements
	40 CFR 60.4211(g)(2) and (3), Subpart IIII	5.B.5	Operations	Monitoring and recordkeeping requirements
AB-005	40 CFR Part 60.4243(a)(1) and (b)(1), Subpart JJJJ	5.B.6	NO_x, CO, and VOC	Maintenance plan and records
	40 CFR Part 60.4245(a)(1)-(3), Subpart JJJJ	5.B.7	NO_x, CO, and VOC	Keep records of notifications, engine certification, and maintenance
AB-001, AB-003, AB-004 and AB-005	40 CFR 60.4214(b), Subpart IIII; 40 CFR Part 60.4245(b), Subpart JJJJ; and 11 Miss. Admin. Code Pt. 2, R. 6.3.A(3).	5.B.8	Hours	Monitoring and recordkeeping requirements

5.B.1 For Emission Point AA-000, the permittee shall determine and maintain sufficient monthly records to document for each coating, adhesive, solvent, or other Volatile Organic Compound (VOC) and Hazardous Air Pollutant (HAP) containing material used the following:

(a) Quantity used (gallons or pounds).

(b) The percentage of VOCs and HAPs by weight. 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.

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

(d) The permittee shall calculate the VOC and HAP emissions from the use of these materials on a monthly basis and keep the 12-month rolling total in tons per year and compare the VOC and HAP emissions to those allowed under Conditions 3.B.1 and 3.B.2.

(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) 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 Point AB-004, the permittee shall maintain documentation that demonstrates the diesel fuel utilized by each emergency engine complies with the fuel standards referenced in Condition 3.B.12.

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

5.B.4 For Emission Point AB-004, the permittee shall maintain documentation that identifies the emergency engine as certified for the applicable emission standards referenced in Condition 3.B.11. Additionally, the permittee shall maintain records that demonstrates each emergency engine was installed and configured to the manufacturer's emission-related specifications.

(Ref.: 40 CFR 60.4211(c), Subpart IIII and 11 Miss. Admin. Code Pt. 2, R. 6.3.A(3).)

5.B.5 For Emission Point AB-004, if the permittee does not operate and maintain the engine according to the manufacturer's emission-related written instructions, or the permittee changes emission-related settings in a way that is not permitted by the manufacturer, the permittee shall demonstrate compliance through the following actions:

(a) Keep a maintenance plan and records of conducted maintenance and must, to the extent practicable, maintain and operate the engine in a manner consistent with good air pollution control practice for minimizing emissions.

(b) The permittee shall conduct an initial performance test to demonstrate compliance with the applicable emission standards within one (1) year of start-up, or within 1 year after an engine is no longer installed, configured, operated, and maintained in accordance with the manufacturer's emission-related written instructions, or within 1 year after the permittee changes emission-related settings in a way that is not permitted by the manufacturer.

The permittee shall adhere to the requirements specified in Condition 5.B.5(b) and conduct a subsequent performance test every 8,760 hours of operation or three (3) years (whichever comes first) thereafter to demonstrate compliance with the applicable emission standards.

(Ref.: 40 CFR 60.4211(g)(2) and (3); Subpart IIII)

5.B.6 For Emission Point AB-005, the permittee must operate and maintain the certified stationary SI internal combustion engine according to the manufacturer's emission-related written instructions and must keep records of conducted maintenance. The permittee must also meet the applicable requirements as specified in 40 CFR part 1068, subparts A

through D.

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

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

(a) All notifications submitted to comply with 40 CFR Part 60, Subpart JJJJ and all documentation supporting any notification;

(b) Maintenance conducted on the engine; and

(c) Documentation from the manufacturer that the engine is certified to meet the applicable emission standards and information as required in 40 CFR part 90, 1048, 1054, and 1060.

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

5.B.8 For Emission Points AB-001, AB-002, AB-003, and AB-005, the permittee shall keep records of the hours of operation of the 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: 40 CFR 60.4214(b), Subpart IIII; 40 CFR Part 60.4245(b), Subpart JJJJ; and 11 Miss. Admin. Code Pt. 2, R. 6.3.A(3).)

C. Specific Recordkeeping 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).	5.C.1	HAPs and VOC	HAPs and VOC Recordkeeping Requirements
AD-000 and AE-000	11 Miss. Admin. Code Pt. 2, R. 6.3.A(3).	5.C.2	Fuel	Fuel Recordkeeping Requirements
AF-000 and AH-004	11 Miss. Admin. Code Pt. 2, R. 6.3.A(3).	5.C.3	Opacity	VEE Recordkeeping Requirements

Emission Point(s)	Applicable Requirement	Condition Number	Pollutant/Parameter Monitored	Reporting Requirement
AB-001 and AB-003	40 CFR 63.6655(a), (d), (e) and (f), Subpart ZZZ	5.C.4	HAPs	General Recordkeeping Requirements
	40 CFR 63.6660, Subpart ZZZZ	5.C.5	HAPs	General Recordkeeping Requirements

5.C.1 For Emission Point AA-000, 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, including a description of the method used to determine the HAP and VOC content.

(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 per 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 Emission Points AD-000 and AE-000, the permittee shall maintain records on site of the quality and quantity of fuel consumed in the stationary emission sources.

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

5.C.3 For Emission Points AF-000 that have external stacks 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 keep the following records:

(a) A copy of each notification and report submitted to comply with 40 CFR 63, Subpart ZZZZ, 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).

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

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

(d) Records of actions taken during periods of malfunction to minimize emissions in accordance with §63.6605(b), including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation.

(e) 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 plan.

(f) 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.

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

5.C.5 For Emission Points AB-001 and AB-003, records required in Condition 5.C.4 must be kept in a form suitable and readily available for expeditious review according to §63.10(b)(1). Each records must be kept for 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record. Each record must be readily accessible in hard copy or electronic form for at least 5 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to §63.10(b)(1).

(Ref.: 40 CFR 63.6660, Subpart ZZZZ)

D. 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).	5.D.1	HAPs and VOC	HAPs and VOC Reporting Requirements
AB-001 & AB-003	40 CFR Part 63, Subpart ZZZZ, Footnote 2 under Table 2d	5.D.2		Reporting Requirements
AB-001, AB-003 and AB-004	11 Miss. Admin. Code Pt. 2, R. 6.3.A(3).	5.D.3		Submit Semi-Annual Report on Hours of Operation (Non-Emergency and Emergency)

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, if 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)

5.D.3 For Emission Point AB-001, AB-003 and AB-004, the permittee shall submit a semi-annual report that details the hours of operation for the engine by July 31st and January 31st of each calendar year for the preceding six-month period. The report shall document how many hours are spent for emergency operation, what classified the operation as an emergency situation, how many hours are spent for non-emergency operation, and the circumstance(s) for non-emergency operation.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.2.B.(11).)

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;

(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

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