

**STATE OF MISSISSIPPI
AND FEDERALLY ENFORCEABLE
AIR POLLUTION CONTROL**

PERMIT

**TO OPERATE AIR EMISSIONS EQUIPMENT AT A
SYNTHETIC MINOR SOURCE**

THIS CERTIFIES THAT

**Green Brothers Gravel Company, Inc., Harmony Pit, Plant 65
4008 South Harmony Road
Crystal Springs, Mississippi
Copiah 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 the Federal Clean Air Act and the provisions of the Mississippi Air and Water Pollution Control Law (Section 49-17-1 et. seq., Mississippi Code of 1972), the regulations and standards adopted and promulgated thereunder, and the State Implementation Plan for operating permits for synthetic minor sources.

MISSISSIPPI ENVIRONMENTAL QUALITY PERMIT BOARD



AUTHORIZED SIGNATURE

MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY

Issued: OCT 08 2019

Permit No.: 0600-00071

Effective Date: As specified herein.

Expires: September 30, 2024

Section 1.

A. GENERAL CONDITIONS

1. This permit is for air pollution control purposes only.
(Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.1.D.)
2. This permit is a Federally-approved permit to operate a synthetic minor source as described in 11 Miss. Admin. Code Pt. 2, R. 2.4.D.
(Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.4.D.)
3. Any activities not identified in the application are not authorized by this permit.
(Ref.: Miss. Code Ann. 49-17-29 1.b)
4. The knowing submittal of a permit application with false information may serve as the basis for the Permit Board to void the permit issued pursuant thereto or subject the applicant to penalties for constructing or operating without a valid permit.
(Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.2.B(5).)
5. The issuance of a permit does not release the permittee from liability for constructing or operating air emissions equipment in violation of any applicable statute, rule, or regulation of state or federal environmental authorities.
(Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.2.B(7).)
6. 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 unless halting or reducing activity would create an imminent and substantial endangerment threatening the public health and safety of the lives and property of the people of this state.
(Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.2.B(15)(a).)
7. The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.
(Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.2.B(15)(c).)
8. The permittee shall allow the Mississippi Department of Environmental Quality Office of Pollution Control and the Mississippi Environmental Quality Permit Board and/or their authorized representatives, upon the presentation of credentials:

- a. To enter upon the permittee's premises where an air emission source is located or in which any records are required to be kept under the terms and conditions of this permit, and
- b. At reasonable times to have access to and copy any records required to be kept under the terms and conditions of this permit; to inspect any monitoring equipment or monitoring method required in this permit; and to sample any air emission.

(Ref.: Miss. Code Ann. 49-17-21)

9. Except for data determined to be confidential under the Mississippi Air & Water Pollution Control Law, all reports prepared in accordance with the terms of this permit shall be available for public inspection at the offices of the Mississippi Department of Environmental Quality Office of Pollution Control.

(Ref.: Miss. Code Ann. 49-17-39)

10. 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. 2.1.D(7).)

11. This permit does not authorize a modification as defined in Regulation 11 Miss. Admin. Code Pt. 2, Ch.2., "Permit Regulations for the Construction and/or Operation of Air Emission Equipment." A modification may require a Permit to Construct and a modification of this permit. 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 40 CFR 52.21 or under regulations approved pursuant to 40 CFR Part 51, Subpart I, or 40 CFR 51.166; or
 - (2) The source is approved to use under any permit issued under 40 CFR 52.21 or under regulations approved pursuant to 40 CFR Part 51, Subpart I, or 40 CFR 51.166;
- e. An increase in the hours of operation or in the production rate unless such change would be prohibited under any federally enforceable permit condition which was established after January 6, 1975, pursuant to 40 CFR 52.21 or under regulations approved pursuant to 40 CFR Part 51, Subpart I or 40 CFR 51.166; or
- f. Any change in ownership of the stationary source.

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

B. GENERAL OPERATIONAL CONDITIONS

1. 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 Regulation, 11 Miss. Admin. Code Pt. 2, "Regulations for the Prevention of Air Pollution Emergency Episodes" for the level of emergency declared.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.10.)

2. Any diversion from or bypass of collection and control facilities is prohibited, except as provided for in 11 Miss. Admin. Code Pt. 2, R. 1.10., "Air Emission Regulations for the Prevention, Abatement, and Control of Air Contaminants."

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

3. Solids removed in the course of control of air emissions shall be disposed of in a manner such as to prevent the solids from becoming windborne and to prevent the materials from entering State waters without the proper environmental permits.

(Ref.: Miss. Code Ann. 49-17-29 1.a(i and ii))

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

- (1) For an upset defined in 11 Miss. Admin. Code Pt. 2, R. 1.2., the Commission may pursue an enforcement action for noncompliance with an emission standard or other requirement of an applicable rule, regulation, or permit. In determining whether to pursue enforcement action, and/or the appropriate enforcement action to take, the Commission may consider whether the source has demonstrated through properly signed contemporaneous operating logs or other relevant evidence the following:
 - (i) An upset occurred and that the source can identify the cause(s) of the upset;
 - (ii) The source was at the time being properly operated;
 - (iii) During the upset the source took all reasonable steps to minimize levels of emissions that exceeded the emission standard or other requirement of an applicable rule, regulation, or permit;
 - (iv) That within 5 working days of the time the upset began, the source submitted a written report to the Department describing the upset, the steps taken to mitigate excess emissions or any other noncompliance, and the corrective actions taken and;
 - (v) That as soon as practicable but no later than 24 hours of becoming aware of an upset that caused an immediate adverse impact to human health or the environment beyond the source boundary or caused a general nuisance to the public, the source provided notification to the Department.
- (2) In any enforcement proceeding by the Commission, the source seeking to establish the occurrence of an upset has the burden of proof.
- (3) This provision is in addition to any upset provision contained in any applicable requirement.
- (4) These upset provisions apply only to enforcement actions by the Commission and are not intended to prohibit EPA or third party enforcement actions.

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

- (1) Startups and shutdowns are part of normal source operation. Emission limitations apply during startups and shutdowns unless source specific emission limitations or work practice standards for startups and shutdowns are defined by an applicable rule, regulation, or permit.
- (2) Where the source is unable to comply with existing emission limitations established under the State Implementation Plan (SIP) and defined in this

regulation, 11 Mississippi Administrative Code, Part 2, Chapter 1, the Department will consider establishing source specific emission limitations or work practice standards for startups and shutdowns. Source specific emission limitations or work practice standards established for startups and shutdowns are subject to the requirements prescribed in 11 Miss. Admin. Code Pt. 2, R. 1.10.B(2)(a) through (e).

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

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

5. Compliance Testing: Regarding compliance testing:
 - a. The results of any emissions sampling and analysis shall be expressed both in units consistent with the standards set forth in any Applicable Rules and Regulations or this permit and in units of mass per time.
 - b. Compliance testing will be performed at the expense of the permittee.
 - c. Each emission sampling and analysis report shall include but not be limited to the following:
 - a. Detailed description of testing procedures;
 - b. Sample calculation(s);
 - c. Results; and
 - d. Comparison of results to all Applicable Rules and Regulations and to emission limitations in the permit.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.6.B(3), (4), and (6).)

C. PERMIT RENEWAL / MODIFICATION / TRANSFER / TERMINATION

1. For renewal of this permit, the applicant shall make application not less than one-hundred eighty (180) days prior to the expiration date of the permit substantiated with current emissions data, test results or reports or other data as deemed necessary by the Mississippi Environmental Quality Permit Board. If the applicant submits a timely and complete application pursuant to this paragraph and the Permit Board, through no fault of the applicant, fails to act on the application on or before the expiration date of the existing permit, the applicant shall continue to operate the stationary source under the terms and conditions of the expired permit, which shall remain in effect until final action on the application is taken by the Permit Board. Permit expiration terminates the source's ability to operate unless a timely and complete renewal application has been submitted.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.8.)

2. 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 permit or, for information claimed to be confidential, the permittee shall furnish such records to the 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. 2.2.B(15)(d).)

3. The permit and/or any part thereof may be modified, revoked, reopened, and reissued, or terminated for cause. Sufficient cause for a permit to be reopened shall exist when an air emissions stationary source becomes subject to Title V. 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. 2.2.B(15)(b).)

4. After notice and opportunity for a hearing, this permit may be modified, suspended, or revoked in whole or in part during its term for cause including, but not limited to:
 - a. Persistent violation of any terms or conditions of this permit.
 - b. Obtaining this permit by misrepresentation or failure to disclose fully all relevant facts; or
 - c. A change in federal, state, or local laws or regulations that require either a temporary or permanent reduction or elimination of previously authorized air emission.

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

5. This permit may only be transferred upon approval of the Mississippi Environmental Quality Permit Board.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.16.B.)

SECTION 2
EMISSION POINT DESCRIPTION

The permittee is authorized to operate air emissions equipment, as described in the following table.

Emission Point	Description
AA-001	Gravel Screening Operations (Crushing and Screening)
AA-002	Tank Storage (Including, diesel, motor oil, hydraulic oil, used oil, transformer oil.)
AB-001	1.19 MMBTU/hr (170 HP) Diesel-Fired Main Plant Water Supply Pump Engine (EP-03)
AB-002	1.61 MMBTU/hr (230 HP) Diesel-Fired #1 Pump-Back Pump Engine (EP-04)
AB-003	2.1 MMBTU/hr (300 HP) Diesel-Fired #2 Pump-Back Pump Engine (EP-05)
AC-001	2.56 MMBTU/hr (365 HP) Diesel-Fired Crusher Engine (EP-06)
AD-001	4.2 MMBTU/hr (600 HP) Diesel-Fired Main Plant Sand Pump Engine (EP-01)
AD-002	4.2 MMBTU/hr (600 HP) Diesel-Fired Sand Plant Sand Pump Engine (EP-02)

**SECTION 3
EMISSION LIMITATIONS AND STANDARDS**

A. Facility-Wide Emission Limitations and Standards

Emission Point	Applicable Requirement	Condition Number(s)	Pollutant/Parameter	Limitation/Standard
Facility-Wide	11 Miss. Admin. Code Pt. 2, R. 1.3.A(1,2).)	3.A.1	Opacity	≤40%
	11 Miss Admin. Code Pt. 2, R. 1.3.B.	3.A.2		
	11 Miss. Admin. Code Pt. 2, R. 1.3.F(1).	3.A.3	PM	$E = 4.1 * (p)^{0.67}$
AB-001 AB-002 AB-003	11 Miss. Admin. Code Pt. 2, R. 1.4.A(1).	3.A.4	SO ₂	4.8 lbs/MMBTU
AC-001 AD-001 AD-002	11 Miss Admin. Code Pt. 2, R.1.3.D(1)(a).	3.A.5	PM	0.6 lbs/MMBtu
Facility-Wide	11 Miss Admin. Code Pt. 2, R. 2.2.B(10).	3.A.6	NO _x	89.0 tons for each consecutive rolling 12-month period

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. 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.

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

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. Except as otherwise specified, no person shall cause, permit, or allow the emission of particulate matter (PM) 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 following relationship

$$E = 4.1 * p^{0.67},$$

where E is the emission rate in pounds per hour and p is the process weight input 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(1).)

- 3.A.4. For Emission Points AB-001, AB-002, AB-003, AC-001, AD-001 and AD-002, 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).)

- 3.A.5. For Emission Points AB-001, AB-002, AB-003, AC-001, AD-001 and AD-002, the maximum permissible emission of ash and/or PM 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.A.6. For the entire facility, the permittee shall limit nitrogen oxides (NO_x) emissions to no more than 89.0 tons per year as determined for each consecutive rolling 12-month period.

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

B. Emission Point Specific Emission Limitations and Standards

Emission Points	Applicable Requirement	Condition Number	Pollutant/Parameter	Limit/Standard
AB-001 AB-002 AB-003 AC-001 AD-001 AD-002	National Emission Standards of Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (RICE), 40 CFR Part 63, Subpart ZZZZ.	3.B.1	HAPs	Applicability
	40 CFR 63.6580, 40 CFR 63.6585(a) & (c)			
	40 CFR 63.6605(a) & (b), 63.6640(b)	3.B.2	HAPs	Operations and Deviations
	40 CFR 63.6625(h)	3.B.3	HAPs	Minimize Idle Time
	40 CFR 63.6640	3.B.11	HAPs	Demonstration Continuous Compliance
AB-001 AB-002 AB-003	40 CFR 63.6603, Table 2d of Subpart ZZZZ, 40 CFR 63.6625(h)	3.B.4	HAPs	Work Practices
	Ref.: 40 CFR 63.6625(e)	3.B.5		Maintenance and Operations
	40 CFR 63.6625(i)	3.B.6		Work Practices
AC-001	40 CFR 63.6603, Table 2d.2	3.B.7	CO	23 ppmvd at 15% O ₂ or reduce CO emissions by 70%
AC-001 AD-001 AD-002	40 CFR 63.6604(a)	3.B.8	Fuel Restriction	Non-road Diesel Fuel
AD-001 AD-002	40 CFR 63.6603, Table 2d	3.B.9	CO	Reduce CO emissions by 70% or more
	40 CFR 63.6603, Table 2b	3.B.10		

3.B.1 Emission Points AB-001, AB-002, AB-003, AC-001, AD-001 and AD-002, are subject to and shall comply with all applicable requirements of the National Emission Standards of Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (RICE), 40 CFR Part 63, Subpart ZZZZ and General Provisions, 40 CFR 63, Subpart A.

(Ref.: 40 CFR 63.6585(a) & (c))

3.B.2 For Emission Points AB-001, AB-002, AB-003, AC-001, AD-001 and AD-002, the permittee shall, at all times, be in compliance with the applicable requirements of 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 Subpart ZZZZ have been achieved. Determination of whether such operation and maintenance procedures are being used will be based on information available to 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.

The permittee shall report each instance in which the operating limit in Table 2d of Subpart ZZZZ was not met. These instances are deviations from the emission and operating limitations of the subpart. These deviations must be reported according to the requirements in 40 CFR 63.6550.

(Ref.: 40 CFR 63.6605(a) & (b), 63.6640(b))

- 3.B.3 For Emission Points AB-001, AB-002, AB-003, AC-001, AD-001 and AD-002, the permittee shall minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes, after which time the emission standards applicable to all times other than startup in Table 2d to 40 CFR 63, Subpart ZZZZ apply.

(Ref.: 40 CFR 63.6625(h))

- 3.B.4 For Emission Points AB-001, AB-002, and AB-003, non-emergency compression ignition (CI) stationary RICE with a site rating less than 300 HP, the permittee shall comply with the following requirements:

- a. Change oil and filter every 1,000 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;
- c. Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.

During periods of startup the permittee shall 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 the time the non-startup emission limitations apply.

(Ref.: 40 CFR 63.6603(Table 2d), 40 CFR 63.6625(h))

- 3.B.5 For Emission Points AB-001, AB-002, and AB-003, the permittee has the option of utilizing an oil analysis program in order to extend the specified oil change requirement listed in Condition 3.B.4 of this permit. The oil analysis must be performed at the same frequency specified for changing the oil in Table 2d of Subpart ZZZZ and summarized in 3.B.4. The analysis program must at a minimum analyze the Total Base Number, viscosity, and percent water content. The condemning limits for these parameters are as follows:

- a. Total Base Number is less than 30 percent of the Total Base Number of the oil when new;
- b. viscosity of the oil has changed by more than 20 percent from the viscosity of the oil when new; or
- c. 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 engine owner or operator must change the oil within 2 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 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 63.6625(i))

- 3.B.6 For Emission Points AB-001, AB-002, and AB-003, the permittee shall operate and maintain the emergency stationary RICE and after-treatment control device (if any) according to the manufacturer's emission-related written instructions or develop their own 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 practice for minimizing emissions.

(Ref.: 40 CFR 63.6625(e))

- 3.B.7 For Emission Point AC-001, non-emergency stationary compression ignition (CI) stationary RICE with a site rating greater than 300 HP and less than or equal to 500 HP, the permittee shall comply with the following requirements:

- (a.) Limit concentration of CO in the stationary RICE exhaust to 49 ppmvd at 15 percent O₂; or
- (b.) Reduce CO emissions by 70 percent or more.

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

- 3.B.8 For Emission Points AC-001, AD-001 and AD-002, a non-emergency stationary CI RICE with a site rating of more than 300 brake HP with a displacement of less than 30 liters per cylinder that uses diesel fuel, the permittee shall use diesel fuel that meets the requirements in 40 CFR 80.510(b) for nonroad diesel fuel: Sulfur Content: 15 ppm maximum.

(Ref.: 40 CFR 63.6604(a) and 40 CFR 80.510(b))

- 3.B.9 For Emission Points AD-001 and AD-002, non-emergency stationary (CI) stationary RICE with a site rating greater than 500 HP, the permittee shall comply with the following requirements:

- (a) limit the concentration of CO in the exhaust to 23 ppmvd at 15 percent O₂ ,or

- (b) reduce CO emissions by 70 percent or more.

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

3.B.10 For Emission Points AD-001 and AD-002, the permittee shall demonstrate compliance with 3.B.9. by the following:

- (a.) maintain catalyst so that the pressure drop across the catalyst does not change by more than 2 inches of water at 100 percent load plus or minus 10 percent from the pressure drop across the catalyst that was measured during the initial performance test; and
- (b.) maintain the temperature of the RICE exhaust so that the catalyst inlet temperature is greater than or equal to 450 °F and less than or equal to 1350 °F.

(Ref.: 40 CFR 63.6603(Table 2b of Subpart ZZZZ))

3.B.11 For Emission Points AB-001, AB-002, AB-003, and AC-001, the permittee shall demonstrate continuous compliance with each emission limitation and operating limitation in Table 2b that are applicable in accordance with methods specified in Table 6 of Subpart ZZZZ.

For Emission Points AD-001 and AD-002, the permittee shall demonstrate continuous compliance with each emission limitation and operating limitation in Table 2b and Table 2d that are applicable in accordance with methods specified in Table 6 of Subpart ZZZZ.

The permittee shall report each instance in which the operating limit in Table 2d of the subpart was not met. These instances are deviations from the emission and operating limitations of the subpart. These deviations must be reported according to the requirements in 40 CFR 63.6550.

(Ref.: 40 CFR 63.6640)

**SECTION 4
WORK PRACTICES**

None

**SECTION 5
MONITORING AND RECORDKEEPING REQUIREMENTS**

Emission Point	Applicable Requirement	Condition Number(s)	Pollutant/Parameter	Monitoring/Recordkeeping Requirement
Facility-Wide	11 Miss. Admin. Code Pt. 2, R. 2.9.	5.1	Recordkeeping	Maintain records for a minimum of 5 years.
	11 Miss. Admin. Code Pt. 2, R. 2.2.B(10).	5.2	NOx	Record fuel usage
		5.3		Record monthly & rolling 12-month basis
AB-001 AB-002 AB-003 AC-001 AD-001 AD-002	40 CFR 63.6635, 63.6655(a), 63.6655(d)-(e)	5.4, 5.5, 5.6, 5.7	HAPs, CO	Demonstrate Compliance and Recordkeeping
AC-001 AD-001 AD-002	40 CFR 63.6625(g)	5.8		Install Crankcase System
AD-001 AD-002	40 CFR 6615, 63.6620(d)	5.9, 5.10		Operational Maintenance
	40 CFR 63.6620(e), 40 CFR 63.6640, Table 6 of Subpart ZZZZ	5.11, 5.12	CO	Reduce Carbon Monoxide Emissions

5.1 The permittee shall retain all required records, monitoring data, supporting information and reports 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 or other data for continuous monitoring instrumentation, and copies of all reports required by this permit. Copies of such records shall be submitted to MDEQ as required by Applicable Rules and Regulations or this permit upon request.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.9.)

5.2 For the entire facility, the permittee shall determine the quantity of fuel used, in gallons, on a monthly basis and in each consecutive rolling 12-month period.

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

5.3 For the entire facility, the permittee shall calculate and record the NOx emissions on a monthly basis and consecutive rolling 12-month basis. The permittee shall calculate the NOx emissions from the use of fuel on a monthly basis and keep the 12-month rolling total in tons per year.

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

5.4 For Emission Points AB-001, AB-002, AB-003, AC-001, AD-001 and AD-002, to demonstrate compliance with emission and operating limits, the permittee shall monitor and collect data according to the following:

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

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

(Ref.: 40 CFR 63.6635)

5.5 For Emission Points AB-001, AB-002, AB-003, AC-001, AD-001 and AD-002, the permittee shall keep the following records:

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

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

(c) Records of performance tests and performance evaluations as required in 40 CFR 63.10(b)(2)(viii)

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

(e) Records of actions taken during periods of malfunction to minimize emissions in accordance with 40 CFR 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.

(Ref.: 40 CFR 63.6655(a))

5.6 For Emission Points AB-001, AB-002, AB-003, AC-001, AD-001 and AD-002, the permittee must keep the records required in Condition 3.B.2 and Table 6 of Subpart ZZZZ to show continuous compliance with each emission or operating limitation that applies to the facility.

(Ref.: 40 CFR 63.6655(d))

5.7 For Emission Points AB-001, AB-002, AB-003, AC-001, AD-001 and AD-002, the permittee must keep records of the maintenance conducted on the stationary RICE in

order to demonstrate that operation and maintenance of the stationary RICE and after-treatment control device (if any) was done according to their own maintenance plan.

(Ref.: 40 CFR 63.6655(e))

5.8 For Emission Points AC-001, AD-001 and AD-002, if operating an existing non-emergency, non-black start CI engine greater than or equal to 300 HP that is not equipped with a closed crankcase ventilation system, the permittee shall comply with either paragraph (a) or paragraph (b) of this requirement. The permittee shall follow the manufacturer's specified maintenance requirements for operating and maintaining the open or closed crankcase ventilation systems and replacing the crankcase filters, or can request the Administrator to approve different maintenance requirements that are as protective as the manufacturer's requirements.

- (a) Install a closed crankcase ventilation system that prevents crankcase emissions from being emitted to the atmosphere, or
- (b) Install an open crankcase filtration emission control system that reduces emissions from the crankcase by filtering the exhaust stream to remove oil mist, particulates, and metals.

(Ref.: 40 CFR 63.6625(g))

5.9 For Emission Points AD-001 and AD-002, the permittee shall conduct subsequent performance tests every 8,760 hours or 3 years, whichever comes first.

(Ref.: 40 CFR 63.6615)

5.10 For Emission Points AD-001 and AD-002, the permittee shall conduct three separate test runs for each performance test required by 40 CFR 63.6620, as specified in 40 CFR 63.7(e)(3). Each test run must last at least one hour.

(Ref.: 40 CFR 63.6620(d))

5.11 For Emission Points AD-001 and AD-002, to demonstrate compliance with the percent reduction requirement, the permittee shall comply with the requirements listed in 40 CFR 63.6620(e) and (f).

(Ref.: 40 CFR 63.6620(e))

5.12 For Emission Points AD-001 and AD-002, For existing CI RICE with a site rating of more than 500 HP that are not limited use stationary RICE, the permittee shall comply with the requirement to reduce CO emissions using an oxidation catalyst by doing the following:

- (a) Conducting performance tests every 8,760 hours or 3 years, whichever comes first, for CO to demonstrate that the required CO percent reduction is achieved; and
- (b) Collecting the catalyst inlet temperature data according to 40 CFR 63.6625(b); and
- (c) Reducing these data to 4-hour rolling averages; and
- (d) Maintaining the 4-hour rolling averages within the operating limitations for the catalyst inlet temperature; and
- (e) Measuring the pressure drop across the catalyst once per month and demonstrating that the pressure drop across the catalyst is within the operating limitation established during the performance test.

(Ref. 40 CFR 63.6640, Table 6 of Subpart ZZZZ))

SECTION 6 REPORTING REQUIREMENTS

Emission Point	Applicable Requirement	Condition Number(s)	Reporting Requirement
Facility-Wide	11 Miss. Admin. Code Pt. 2, R. 2.2.B(11).	6.1	Report permit deviations within five (5) working days.
		6.2	Submit certified annual monitoring report (AMR).
		6.3, 6.4	All documents submitted to MDEQ shall be certified by a Responsible Official (RO).
	11 Miss. Admin. Code Pt. 2, R. 2.2.B(10).)	6.5	Annual report of NOx emission rate
AB-001 AB-002 AB-003 AC-001 AD-001 AD-002	40 CFR 63.6650(a), 40 CFR 63.6650(b), 40 CFR 63.6650(c)	6.6, 6.7	Submit Compliance Report and Status
AD-001 AD-002	11 Miss. Admin. Code Pt. 2, R. 2.2.B(10).	6.8	Replacement Engine Notification
AD-002	40 CFR 63.6645(a)	6.9	Reporting Requirement
AC-001 AD-001 AD-002	40 CFR 63.6650(d)	6.10	Report deviations for the RICE
AD-002	40 CFR 63.6650	6.11	Submit Semi-annual report

6.1 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. 2.2.B(11).)

- 6.2 Except as otherwise specified herein, the permittee shall submit a certified annual synthetic minor monitoring report postmarked no later than 31st of January for the preceding calendar year. This report shall address any required monitoring specified in the permit. All instances of deviations from permit requirements must be clearly identified in the report. Where no monitoring data is required to be reported and/or there are no deviations to report, the report shall contain the appropriate negative declaration.

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

- 6.4 Any document required by this permit to be submitted to the MDEQ shall contain a certification signed by a responsible official stating 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. 2.2.B(11).)

- 6.5 For the entire facility, the permittee shall submit an annual monitoring report providing the NO_x emission rate as determined in each consecutive rolling 12-month period. The permittee shall calculate NO_x emissions from the use of fuel on a monthly basis and a 12-month rolling total basis in tons per year. The report is due annually by the 31st of January for the preceding calendar year.

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

- 6.6 For Emission Points AB-001, AB-002, AB-003, AC-001, AD-001 and AD-002, the permittee shall submit each report according to the requirements of Table 7 of 40 CFR 63, Subpart ZZZZ, and according to the following requirements:

- (1) For semiannual compliance reports, the first compliance report must cover the period beginning on the compliance date that is specified for your affected source in 40 CFR 63.6595 and ending on June 30 or December 31, whichever date is the first date following the end of the first calendar half after the compliance date that is specified for your source in 40 CFR 63.6595.
- (2) For semiannual compliance reports, the first compliance report must be postmarked or delivered no later than July 31 or January 31, whichever date follows the end of the first calendar half after the compliance date that is specified for your affected source in 40 CFR 63.6595.
- (3) For semiannual compliance reports, each subsequent compliance report must cover the semiannual reporting period from January 1 through June 30 or the semiannual reporting period from July 1 through December 31.
- (4) For semiannual compliance reports, each subsequent compliance report must be postmarked or delivered no later than July 31 or January 31, whichever date is the first date following the end of the semiannual reporting period.

(Ref.: 40 CFR 63.6650(a), 40 CFR 63.6650(b))

6.7 The compliance report shall contain the following information:

- (a) Company name and address.
- (b) Statement by a responsible official, with that official's name, title, and signature, certifying the accuracy of the content of the report.
- (c) Date of report and beginning and ending dates of the reporting period.
- (d) If you had a malfunction during the reporting period, the compliance report must include the number, duration, and a brief description for each type of malfunction which occurred during the reporting period and which caused or may have caused any applicable emission limitation to be exceeded. The report must also include a description of actions taken by the permittee during a malfunction of an affected source to minimize emissions in accordance with 40 CFR 63.6605(b), including actions taken to correct a malfunction.
- (e) If there are no deviations from any emission or operating limitations that apply, a statement that there were no deviations from the emission or operating limitations during the reporting period.

(Ref.: 40 CFR 63.6650(c))

6.8 Within 10 days of a temporary replacement engine being brought on site, the permittee shall submit to MDEQ a written notification that includes the following:

- (a) Date that the temporary replacement engine was brought on site;
- (b) A description of the unit that the temporary engine is replacing; and
- (c) A description of the temporary replacement unit including the heat input capacity and horsepower.

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

6.9 The permittee shall submit all of the notifications in 40 CFR 63.7(b) and(c), 63.8(e), (f)(4) and (f)(6), 63.9(b) through (e), and (g) and (h), if applicable, by the dates specified.

(Ref.: 40 CFR 63.6645(a))

6.10 For Emission Points AC-001, AD-001 and AD-002, for each deviation from an emission or operating limitation that occurs for a stationary RICE where a CMS is not used to comply with the emission or operating limitations, the compliance report additionally must contain the following:

- (a) The total operating time of the stationary RICE at which the deviation occurred during the reporting period.
- (b) Information on the number, duration, and cause of deviations (including unknown cause, if applicable), as applicable, and the corrective action taken.

(Ref.: 40 CFR 63.6650(d))

- 6.11 For Emission Points AC-001, AD-001 and AD-002, for each deviation from an emission or operating limitation occurring when using a CMS to comply with the emission and operating limitations in Subpart ZZZZ, the permittee shall also include the following in the compliance report:
- (a) The date and time that each malfunction started and stopped.
 - (b) The date, time, and duration that each CMS was inoperative, except for zero (low-level) and high-level checks.
 - (c) The date, time, and duration that each CMS was out-of-control, including the information in 40 CFR 63.8(c)(8).
 - (d) The date and time that each deviation started and stopped, and whether each deviation occurred during a period of malfunction or during another period.
 - (e) A summary of the total duration of the deviation during the reporting period, and the total duration as a percent of the total source operating time during that reporting period.
 - (f) A breakdown of the total duration of the deviations during the reporting period into those that are due to control equipment problems, process problems, other known causes, and other unknown causes.
 - (g) A summary of the total duration of CMS downtime during the reporting period, and the total duration of CMS downtime as a percent of the total operating time of the stationary RICE at which the CMS downtime occurred during that reporting period.
 - (h) An identification of each parameter and pollutant (CO or formaldehyde) that was monitored at the stationary RICE.
 - (i) A brief description of the stationary RICE.
 - (j) A brief description of the CMS.
 - (k) The date of the latest CMS certification or audit.
 - (l) A description of any changes in CMS, processes, or controls since the last reporting period.

(Ref.: 40 CFR 63.6650(e))