

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

PERMIT

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

THIS CERTIFIES THAT

Mars Food US, LLC
1098 North Broadway Street
Greenville, Mississippi
Washington 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


Krystal Rudolph

AUTHORIZED SIGNATURE

MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY

Issued: September 16, 2021

Permit No.: 2800-00113

Effective Date: As specified herein.

Expires: August 31, 2026

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:
 - (1) Detailed description of testing procedures;
 - (2) Sample calculation(s);
 - (3) Results; and
 - (4) 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
AB-002	11.96 MMBtu/hr (300 hp) Natural gas-fired Steam Boiler with Economizer Construction Date: 2008
AB-003	11.96 MMBtu/hr (300 hp) Natural gas-fired Steam Boiler with Economizer Construction Date: 2008
AB-004	11.96 MMBtu/hr (300 hp) Natural gas-fired Steam Boiler with Economizer Construction Date: 2008
AB-005	11.96 MMBtu/hr (300 hp) Natural gas-fired Steam Boiler with Economizer Construction Date: 2008
AB-006	11.96 MMBtu/hr (300 hp) Natural gas-fired Steam Boiler with Economizer Construction Date: 2009
AB-007	11.96 MMBtu/hr (300 hp) Natural gas-fired Steam Boiler with Economizer Construction Date: 2011
AB-008	1.26 MMBtu/hr Natural gas-fired Hot Water Heater
AB-009	Facility-Wide Natural gas-fired Comfort Space Heaters Combined Heat Input 2.0 MMBtu/hr
AC-001	Central Stack for the Cargo Brown Baghouse and Bran Baghouse
AC-007	Rough Rice Process controlled by a baghouse Emission Point AF-001 may also vent to this baghouse during limestone loading activities.
AC-014	Bran Bins controlled by a baghouse
AC-024	White Rice Bran Collection System
AC-025	White Rice Dust Collection System
AC-026	Finished Rice Bin and Pre-packaging Equipment Dust Collection System
AC-027	Filter Receivers capturing White Rice Bran and Dust Product
AC-028	Filter Receivers capturing White Rice Bran and Dust Product
AC-029	RTH Grain Handling
AD-001	Research & Development Pilot Plant controlled by a cyclone

Emission Point	Description
AE-001	140 hp Emergency Fire Water Pump 4-Stroke Lean Burn Compression Ignition Internal Reciprocating Engine Model Year: Pre-2009
AE-002	51 hp Emergency Backup Power Generating Engine Natural gas-fired 4-Stroke Rich Burn Spark Ignition Internal Reciprocating Engine EPA-Certified Engine Model Year: After January 1, 2009 (2015)
AF-001	Limestone Silo controlled by a baghouse Also vents to Emission Point AC-007 during limestone loading activities.
AG-001	Hopper Truck Unloading to an Underground Hopper Conveyor
AG-002	Truck Loading via Grain Loading Arms
AH-001	Annual Building Pest Control Fogging
AH-003	Annual Trailer Fumigation for Pest Control
AI-001	300 gallon Horizontal Fixed Roof Diesel Fuel Storage Tank Construction Date: 2019

SECTION 3. 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.	3.1	Smoke	Opacity shall not exceed 40%
	11 Miss. Admin. Code Pt. 2, R. 1.3.B.	3.2		
	11 Miss. Admin. Code Pt. 2, R. 1.3.F(1).	3.3	PM (Filterable Only)	Emissions shall not exceed $E = 4.1 p^{0.67}$
	11 Miss. Admin. Code Pt. 2, R. 2.2.B(10).	3.4	PM ₁₀ PM _{2.5}	Emissions shall not exceed 99.0 tpy.
AB-002 AB-003 AB-004 AB-005 AB-006 AB-007 AB-008	11 Miss. Admin. Code Pt. 2, R. 1.4.A(1).	3.5	SO ₂	Emissions shall not exceed 4.8 lbs/MMBtu
AB-002 AB-003 AB-004 AB-005 AB-006 AB-007	11 Miss. Admin. Code Pt. 2, R. 1.3.D(1)(b).	3.6	PM (Filterable only)	Emissions shall not exceed $E = 0.8808 * T^{0.1667}$
	40 CFR 60, Subpart Dc (Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units) 40 CFR 60.40c, 60 CFR 60.41c	3.7	SO ₂ PM	Applicability
AB-008 AE-001 AE-002	11 Miss. Admin. Code Pt. 2, R. 1.3.D(1)(a).	3.8	PM (Filterable only)	Emissions shall not exceed 0.6 lbs/MMBtu
AC-001 AC-007 AC-014 AC-024 AC-025 AC-026 AC-027 AC-028 AC-029 AF-001	11 Miss. Admin. Code Pt. 2, R. 2.2.B(10).	3.9	PM (Filterable only)	Operate each filter, dust collector, and baghouse at all times while processing.
AE-001	40 CFR 60, Subpart III (Standards of Performance for Stationary Compression Ignition Internal Combustion Engines) 40 CFR 60.4200, 60. 4219, Subpart III	3.10	NMHC + NO _x CO PM	Applicability

Emission Point	Applicable Requirement	Condition Number(s)	Pollutant/Parameter	Limitation/Standard
AE-001	40 CFR 60.4205(c) and Table 4 to Subpart IIII, 60.4206 Subpart IIII	3.11	NMHC + NO _x	Emission shall not exceed 7.8 g/HP-hr (10.5 g/KW-hr)
			CO	Emission shall not exceed 3.7 g/HP-hr (5.0 g/KW-hr)
			PM	Emission shall not exceed 0.60 g/HP-hr (0.80 g/KW-hr)
	40 CFR 60.4207(b), Subpart IIII 40 CFR 1090, Subpart D (Diesel Fuel and ECA Marine Fuel Standards) 40 CFR 1090.305, Subpart D	3.12	Fuel Standards	Shall only combust ULSD.
	40 CFR 60.4209(a), Subpart IIII	3.13	Hours of Operation	Install and Maintain a Non-resettable Hour Meter
	40 CFR 4211(a), Subpart IIII	3.14	NMHC + NO _x CO PM	Operational Requirement
	40 CFR 60.4211(f), Subpart IIII	3.15	Hours of Operation	Emergency Engine Standards
AE-002	40 CFR 60, Subpart JJJJ (Standards of Performance for Stationary Spark Ignition Internal Combustion Engines) 40 CFR 60.4230(a)(4)(iv), Subpart JJJJ	3.16	NO _x + HC CO	Applicability
	40 CFR 60.4233(d) and Table 1 to Subpart JJJJ, Subpart JJJJ	3.17	NO _x + HC	Emissions shall not exceed 10 g/HP-hr
			CO	Emissions shall not exceed 387 g/HP-hr
	40 CFR 60.4234, Subpart JJJJ	3.18	NO _x + HC CO	Operational Requirement
	40 CFR 60.4237(c), Subpart JJJJ	3.19	Hours of Operation	Install and Maintain a Non-resettable Hour Meter
	40 CFR 60.4243(b)(1), Subpart JJJJ	3.20	NO _x + HC CO	Purchase a certified engine
	40 CFR 60.4243(d), Subpart JJJJ	3.21	Hours of Operation	Emergency Engine Standards

Emission Point	Applicable Requirement	Condition Number(s)	Pollutant/Parameter	Limitation/Standard
AE-001 AE-002	40 CFR 63, Subpart ZZZZ (National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines) 40 CFR 63.6580, 63.6585(a) and (c), 63.6590(a)(2)(iii) and (c)(1), Subpart ZZZZ	3.22	HAP	Applicability

3.1 For the entire facility, 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.)

3.2 For the entire facility, 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 3.1. This shall not apply to vision obscuration caused by uncombined water droplets.

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

3.3 For the entire facility, except as otherwise specified or limited herein, the permittee shall not cause 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

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

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

3.4 For the entire facility, the permittee shall limit Particulate Matter (PM) less than 10 μm in diameter (PM_{10}) and PM less than 2.5 μm in diameter ($\text{PM}_{2.5}$) to no more than 99.0 tons per year (tpy) for each pollutant. The permittee shall determine PM_{10} and $\text{PM}_{2.5}$ emissions on a monthly basis and for each consecutive 12-month period on a rolling basis. Emission calculations shall include, but are not limited to, stack testing, opacity observations, equipment hours of operation, manufacturer's specifications, throughput, fuel combusted, EPA AP-42 guidance, etc.

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

3.5 For Emission Points AB-002, AB-003, AB-004, AB-005, AB-006, AB-007, and AB-008, the maximum discharge of sulfur oxides from any fuel burning installation in which fuel is burned primary 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).)

3.6 For Emission Points AB-002, AB-003, AB-004, AB-005, AB-006, and AB-007, emissions from installations equal to or greater than 10 million BTU per hour heat input but less than 10,000 million BTU per hour heat input shall not exceed an emission rate as determined by the relationship

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

where E is the emission rate in pounds per million BTU per hour heat input and I is the heat input in millions of BTU per hour.

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

3.7 For Emission Points AB-002, AB-003, AB-004, AB-005, AB-006, and AB-007, the permittee is subject to and shall comply with all applicable requirements of the Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units (40 CFR 60, Subpart Dc) and General Provisions (40 CFR 60, Subpart A)

(Ref.: 40 CFR 60.40c(a), 60.41c, Subpart Dc)

3.8 For Emission Points AB-008, AE-001, and AE-002, emissions from installations 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).)

3.9 For Emission Points AC-001, AC-007, AC-014, AC-024, AC-025, AC-026, AC-027, AC-028, AC-029, and AF-001, the permittee shall operate each filter, dust collector, and baghouse at all times when processing. Should the PM control technologies become nonoperational then the respective process shall be shut down immediately, but not as to cause damage to equipment or property, or cause further environmental problems. The process shall not startup until such time that the PM control technology becomes operational. The permittee shall maintain on hand at all times sufficient equipment as is necessary to repair and/or overhaul each filter, dust collector, and baghouse at all times. Maintenance and quality assurance/quality control measures shall be conducted in accordance with the manufacture's specifications.

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

3.10 For Emission Point AE-001, the permittee is subject to and shall comply with all applicable requirements of the Standards of Performance for Stationary Compression Ignition Internal Combustion Engines (40 CFR 60, Subpart IIII) and General Provisions (40 CFR 60.4200, 60.4219, and 60.4218, Subpart IIII and 40 CFR 63.6590(c)(1), Subpart ZZZZ)

3.11 For Emission Point AE-001, the permittee shall comply with the following emission standards over the entire life of the engine:

Pollutant	g/HP-hr	g/KW-hr
NMHC + NO _x	7.8	10.5
CO	3.7	5.0
PM	0.60	0.80

(Ref.: 40 CFR 60.4205(c) and Table 4 to Subpart IIII, Subpart IIII)

3.12 For Emission Point AE-001, the permittee shall use diesel fuel that meets the following ultra-low sulfur diesel (ULSD) per-gallon standards:

- (a) *Sulfur Standard*: Maximum sulfur content of 15 parts per million (ppm).
- (b) *Cetane index or aromatic content*. Diesel fuel must meet one of the following standards:
 - (1) Minimum cetane index of 40.
 - (2) Maximum aromatic content of 35 volume percent.

(Ref.: 40 CFR 60.4207(b), Subpart IIII and 40 CFR 1090.305, Subpart D)

3.13 For Emission Point AE-001, the permittee shall install and maintain a non-resettable hour meter.

(Ref.: 40 CFR 60.4209(a), Subpart IIII)

3.14 For Emission Point AE-001, the permittee shall comply with the following:

- (a) Operate and maintain the stationary CI internal combustion engine and control device according to the manufacturer's emission-related written instructions;
- (b) Change only those emission-related settings that are permitted by the manufacturer; and
- (c) Meet the applicable requirements of 40 CFR parts 89, 94 and/or 1068.

(Ref.: 40 CFR 4211(a), Subpart IIII)

- 3.15 For Emission Point AE-001, the permittee shall operate the emergency stationary ICE according to the requirements in paragraphs (a) through (c) of this condition. In order for the engine to be considered an emergency stationary ICE under Subpart III, any operation other than emergency operation, maintenance and testing, emergency demand response, and operation in non-emergency situations for 50 hours per year, as described in paragraphs (a) through (c) of this condition, is prohibited. If the permittee does not operate the engine according to the requirements in paragraphs (a) through (c) of this condition, the engine will not be considered an emergency engine under this subpart and must meet all requirements for non-emergency engines.
- (a) There is no time limit on the use of emergency stationary ICE in emergency situations.
 - (b) The permittee shall operate the emergency stationary ICE for the purpose of maintenance checks and readiness testing, provided that the tests are recommended by Federal, State or local government, the manufacturer, the vendor, or the insurance company associated with the engine. Maintenance checks and readiness testing of such units is limited to a maximum of 100 hours per calendar year. The permittee may petition the DEQ for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the permittee maintains records indicating that Federal, State, or local standards require maintenance and testing of emergency ICE beyond 100 hours per calendar year.
 - (c) The permittee shall operate the emergency stationary ICE for up to 50 hours per calendar year in non-emergency situations. The 50 hours of operation in non-emergency situations are counted as part of the 100 hours per calendar year for maintenance and testing and emergency demand response provided in paragraph (b) of this condition. The 50 hours per calendar year for non-emergency situations cannot be used for peak shaving or non-emergency demand response, or to generate income for a facility to an electric grid or otherwise supply power as part of a financial arrangement with another entity.

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

- 3.16 For Emission Point AE-002, 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 60, Subpart JJJJ) and General Provisions (40 CFR 60, Subpart A)

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

- 3.17 For Emission Point AE-002, the permittee shall limit Nitrogen Oxide plus Hydrocarbon (NO_x + HC) emissions to 10 g/HP-hr and Carbon Monoxide (CO) emissions to 387 g/HP-hr.

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

- 3.18 For Emission Point AE-002, the permittee shall operate and maintain the stationary spark ignition internal combustion engine so that the engine achieves the emission standards in Condition 3.B.17 over the entire life of the engine.

(Ref.: 40 CFR 60.4234, Subpart JJJJ)

- 3.19 For Emission Point AE-002, the permittee shall install and maintain a non-resettable hour meter upon startup of the emergency engine.

(Ref.: 40 CFR 60.4237(c), Subpart JJJJ)

- 3.20 For Emission Point AE-002, the permittee shall purchase an engine certified to the emissions standards in Condition 3.B.17 for the same engine class and maximum engine power.

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

3.21 For Emission Point AE-002, the permittee shall operate the emergency stationary ICE according to paragraphs (a), (b), and (c) below. In order for the engine to be considered an emergency stationary ICE 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 in paragraphs (a) through (c) below, is prohibited. If the permittee does not operate the engine according to the requirements in paragraphs (a) through (c), the engine will not be considered an emergency engine under 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 ICE in emergency situations.
- (b) The permittee may operate the emergency stationary ICE for maintenance checks and readiness testing, provided that the tests are recommended by federal, state or local government, the manufacturer, the vendor, the regional transmission organization or equivalent balancing authority and transmission operator, or the insurance company associated with the engine. The permittee may petition the DEQ for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the permittee maintains records indicating that federal, state, or local standards require maintenance and testing of each engine beyond 100 hours per calendar year.
- (c) The permittee may operate the emergency stationary ICE 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.

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

3.22 For Emission Point AE-001 and AE-002, the permittee is subject to and shall comply with all applicable requirements of the National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (40 CFR 63, Subpart ZZZZ) and General Provisions (40 CFR 60, Subpart A). Emission Points AE-

001 and AE-002 shall comply with the requirements of Subpart *ZZZZ* by meeting the requirements of 40 CFR 60, Subpart IIII and 40 CFR 60, Subpart JJJJ, respectfully.

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

**SECTION 4.
WORK PRACTICES**

***THIS SECTION WAS INTENTIONALLY LEFT BLANK SINCE NO WORK PRACTICE
STANDARDS APPLY TO THIS PERMIT ACTION***

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(11).	5.2	PM ₁₀ PM _{2.5}	Recordkeeping Requirement
AB-002 AB-003 AB-004 AB-005 AB-006 AB-007	40 CFR 60.48c(g)(2), Subpart Dc	5.3	Fuel Combusted	Recordkeeping Requirement
AC-001 AC-007 AC-014 AC-024 AC-025 AC-026 AC-027 AC-028 AC-029 AF-001	11 Miss. Admin. Code Pt. 2, R. 2.2.B(11).	5.4	Maintenance	Recordkeeping Requirement
		5.5	PM (Filterable Only)	Weekly EPA Test Method 22 tests. EPA Test Method 9 if visible emissions are observed and recordkeeping.
AC-001 AC-007 AC-014 AF-001	11 Miss. Admin. Code Pt. 2, R. 2.2.B(11).	5.6	PM	Stack Testing Requirement
AE-001	40 CFR 63.4214(b), Subpart IIII	5.7	Hours of Operation	Recordkeeping Requirement
AE-002	40 CFR 60.4243(a), Subpart JJJJ	5.8	NO _x + HC CO	Recordkeeping Requirement
	40 CFR 60.4245(a) and (b), Subpart JJJJ	5.9		Recordkeeping Requirement

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 DEQ 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 demonstrate compliance with Condition 3.4 by calculating and recording the PM₁₀ and PM_{2.5} emissions for each calendar month and for each consecutive 12-month period in tons per year on a rolling basis. Calculations shall include, but are not limited to, equipment hours of operation, manufacturer's specifications, throughput, fuel combusted, EPA AP-42 guidance, etc.

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

5.3 For Emission Points AB-002, AB-003, AB-004, AB-005, AB-006, and AB-007, the permittee shall record and maintain records of the amount of each fuel combusted during each calendar month.

(Ref.: 40 CFR 60.48c(g)(2), Subpart Dc)

5.4 For Emission Points AC-001, AC-007, AC-014, AC-024, AC-025, AC-026, AC-027, AC-028, AC-029, and AF-001, the permittee shall demonstrate compliance with Condition 3.9 by performing weekly maintenance inspections on each filter, dust collector, and baghouse to ensure the control device is operating as designed. A record shall be kept in log form and shall include the following:

- (a) Date of the inspections,
- (b) Name of the inspector, and
- (c) Any maintenance conducted during the monthly inspection.

All maintenance inspection and repair records shall be kept on site and made available for DEQ review upon request.

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

5.5 For Emission Points AC-001, AC-007, AC-014, AC-024, AC-025, AC-026, AC-027, AC-028, AC-029, and AF-001, the permittee shall perform weekly six (6) minute visual observations on each emission source. Results shall be recorded in log form. If visible emissions are observed, the permittee shall immediately conduct EPA Test Method 9 visual observation according to the procedures in 40 CFR 60.11, Subpart A. Results from the EPA Test Method 9 shall be recorded. The source(s) producing visual emissions shall be shut down in accordance with the manufacturer's protocols and corrective actions shall be taken. The emission source(s) shall begin operations once corrective actions have been taken. The following log form records shall be kept in response to visible emissions from the control device(s):

- (a) Date of the shutdown period,
- (b) Results of the EPA Test Method 9,
- (c) Corrective actions taken, and
- (d) Time the unit(s) were operated without fully operational controls.

All Method 9 and visible observation results shall be kept on site and made available for DEQ review upon request.

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

5.6 For Emission Points AC-001, AC-007, AC-014, and AF-001, the permittee shall conduct a stack test on each source for PM, PM₁₀, and PM_{2.5} once every five years, not to exceed 61 months. Stack testing shall be performed using EPA Reference Methods 1 – 5 and 201A or an EPA approved equivalent method. For the purposes of compliance demonstration, the permittee shall not test the sources at less than 90% capacity.

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

5.7 For Emission Point AE-001, the permittee shall keep records of the operation of the engine in emergency and non-emergency service that are recorded through the non-resettable hour meter. The permittee shall record the time of operation of the engine and the reason the engine was in operation during that time.

(Ref.: 40 CFR 63.4214(b), Subpart IIII)

5.8 For Emission Point AE-002, the permittee shall operate and maintain the certified engine in accordance with the manufacturer's emission-related written instructions. The permittee shall keep records of conducted maintenance to demonstrate compliance, but no performance testing is required. The stationary SI internal combustion engine will not be considered out of compliance if the permittee adjusts engine settings according to and consistent with the manufacturer's instructions

If the permittee does not operate the certified engine according to the manufacturer's emissions-related written instructions, the engine will be considered a non-certified engine, and the permittee shall keep a maintenance plan and records of conducted maintenance to demonstrate compliance and shall, to the extent practicable, maintain and operate the engine in a manner consistent with good air pollution control practices for minimizing emissions, but no performance testing is required.

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

- 5.9 For Emission Point AE-002, the permittee shall keep the following records:
- (a) All notifications submitted to comply with 40 CFR 60, Subpart JJJJ and all documentation supporting any notification.
 - (b) Maintenance conducted on the engine.
 - (c) Documentation from the manufacturer that the engine is certified to meet the emission standards and information as required in 40 CFR parts 90, 1048, 1054, and 1060, as applicable.
 - (d) If the certified engine is operated in a non-certified manner, documentation that the engine meets the applicable emission standards.
 - (e) The hours of operation that are 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 60.4245(a) and (b), Subpart JJJJ)

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.
	11 Miss. Admin. Code Pt. 2, R. 2.2.B(11).	6.2	Submit certified annual monitoring report.
	11 Miss. Admin. Code Pt. 2, R. 2.2.B(11).	6.3	All documents submitted to MDEQ shall be certified by a Responsible Official.
	11 Miss. Admin. Code Pt. 2, R. 2.2.B(11).	6.4	PM ₁₀ and PM _{2.5} emissions Report
AC-001 AC-007 AC-014 AC-024 AC-025 AC-026 AC-027 AC-028 AC-029 AF-001	11 Miss. Admin. Code Pt. 2, R. 2.2.B(11).	6.5	Visible Emission Report
AC-001 AC-007 AC-014 AF-001	11 Miss. Admin. Code Pt. 2, R. 2.2.B(11).	6.6	Report Stack Test Results
AE-001 AE-002	11 Miss. Admin. Code Pt. 2, R. 2.2.B(11).	6.7	Hours of Operation 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).)

- 6.3 Any document required by this permit to be submitted to the DEQ 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).)

- 6.4 For the entire facility, the permittee shall submit an annual monitoring report in accordance with Condition 6.2 containing total PM₁₀ and PM_{2.5} emission calculations in tons per month and tpy for each consecutive 12-month period. The report shall include the supporting calculations which could include, but are not limited to, equipment hours of operation, manufacturer's specifications, throughput, fuel combusted, EPA AP-42 guidance, etc.

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

- 6.5 For Emission Points AC-001, AC-007, AC-014, AC-024, AC-025, AC-026, AC-027, AC-028, AC-029, and AF-001, the permittee shall submit in accordance with Condition 6.2 the log form described in Condition 5.5 if visible emissions are detected.

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

- 6.6 For Emission Points AC-001, AC-007, AC-014, and AF-001, the permittee shall submit a written test protocol at least thirty (30) days prior to the intended test date(s) to ensure that all test methods and procedures are acceptable to the DEQ. Also, the DEQ shall be notified in writing at least ten (10) days prior to the scheduled test date(s) so that an observer may be afforded the opportunity to witness the test(s). The permittee shall submit the results of the stack tests required by Condition 5.6 within 60 days from the date of completion of the stack test(s).

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

6.7 For Emission Points AE-001 and AE-002, the permittee shall submit in accordance with Condition 6.2 an annual report summarizing the hours of operating of the engine in the calendar year. This report shall also include what hours were for emergency use and what constituted the emergency and what hours were for non-emergency use.

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