

STATE OF MISSISSIPPI AND FEDERALLY ENFORCEABLE AIR POLLUTION CONTROL PERMIT

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

THIS CERTIFIES THAT

Entergy Mississippi Inc, Grand Gulf Nuclear Station
7003 Bald Hill Road
Port Gibson, Mississippi
Claiborne 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: _____

Permit No.: 0420-00023

Effective Date: As specified herein.

Expires: _____

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
AA-001	68.25 MMBTU/hr (9750 hp) Diesel-fired Division 1 Standby Emergency Generator Engine (Pre-1976 No. 1 Engine)
AB-001	68.31 MMBTU/hr (9758 hp) Diesel-fired Division 2 Standby Emergency Generator Engine (Pre-1977 No. 2 Engine)
AC-001	10.68 MMBTU/hr (1525 hp) Diesel-fired Division 3 Standby Emergency Generator Engine (Pre-1985 No. 3 Engine)
AA-002	1.53 MMBTU/hr (218 hp) Diesel-fired Fire Water Pump Engine (1974 No. 5 (A) Engine)
AB-002	1.53 MMBTU/hr (218 hp) Diesel-fired Fire Water Pump Engine (1975 No. 6 (B) Engine)
AC-002	2.21 MMBTU/hr (315 hp) Diesel-fired ESC Emergency Generator Engine (Pre-1985 No. 7 Engine)
AA-003	2.43 MMBTU/hr (347 hp) Diesel-fired OSC Emergency Generator Engine (2004 No. 9 Engine)
AB-003	0.28 MMBTU/hr (40 hp) Diesel-fired Division 1 Starting Air Compressor Engine (Pre-1985 No. 10)
AC-003	0.28 MMBTU/hr (40 hp) Diesel-fired Division 2 Starting Air Compressor Engine (Pre-1985 No. 11)
AD-003	0.04 MMBTU/hr (6 hp) Diesel-fired Division 3 Starting Air Compressor Engine (Pre-1985 No. 12)
AE-003	2.07 MMBTU/hr (295 hp) Diesel-fired Well Water Engine (Pre-1985 No. 15)
AA-008	Unit 1 CWS Cooling Tower with Auxilary Tower, 34,800 kgal/hr natural draft (Ref. No. 17)
AA-009	Standby Service Water A Cooling Tower, 780 kgal/hr forced draft
AA-010	Standby Service Water B Cooling Tower, 840 kgal/hr forced draft
AA-011	0.71 MMBTU/hr (102 hp) Diesel-fired Telecommunications Emergency Generator (Pre-1985)
Tanks	
AT-110	60,000-gallon Clean Lube Oil Storage Tank
AT-111	65,000-gallon Dirty Lube Oil Storage Tank
AT-112	1,000-gallon Gasoline Storage Tank
AT-113	2,000-gallon Diesel Storage Tank
AT-114	550-gallon Day Tank for Backup Diesel
AT-115	550-gallon Day Tank for Backup Diesel Engines
AT-116	550-gallon Day Tank for Backup Diesel Engines
AT-117	110-gallon Water Well Diesel Tank
AT-118	600-gallon Fire Water Diesel Tank
AT-119	600-gallon Fire Water Diesel Tank
AT-120	600-gallon Vehicle Fuel Tank
AT-121	600-gallon Fuel Storage Day Tank
AT-122	2,000-gallon Used Oil Tank Maintenance Shop
AT-123	18,700-gallon Lube Oil Reservoir for Main Turbine
AT-124	250-gallon Diesel Vehicle Maintenance Tank

AT-125	250-gallon Distillate Fuel/No. 2 Oil Vehicle Maintenance Tank
AT-126	250-gallon Radial Well Lube Oil Tank 1
AT-127	350-gallon Radial Well Lube Oil Tank 2
AT-128	350-gallon Radial Well Lube Oil

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. 2.2.B(10).	3.1	Fuel Oil	< 1% sulfur
	11 Miss. Admin. Code Pt. 2, R. 1.3.A.	3.2	Opacity	≤ 40%
	11 Miss. Admin. Code Pt. 2, R. 1.3.B.	3.3	Equivalent Opacity	
	11 Miss. Admin. Code Pt. 2, R. 2.2.B(10).	3.4	Operation	Operate as efficiently as possible
AA-001 AB-001 AC-001	11 Miss. Admin. Code Pt. 2, R. 1.3.D(1)(b).	3.5	PM	$E = 0.8808 \times I^{0.1667}$
AC-002	11 Miss. Admin. Code Pt. 2, R. 2.2.B(10). Synthetic Minor Limitations	3.6	Hours of Operation	≤ 250 hr/year
		3.7		≤ 100 hr/year
		3.8		≤ 500 hr/year
AA-002 AB-002 AC-002 AA-003 AB-003 AC-003 AD-003 AE-003 AA-011	11 Miss. Admin. Code Pt. 1.3.D(1)(a).	3.9	PM	≤ 0.6 lb/MMBTU
AA-001 AB-001 AC-001 AA-002 AB-002 AC-002 AA-003 AB-003 AC-003 AD-003 AE-003 AA-011	40 CFR 63, Subpart ZZZZ (National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines)	3.10	HAP	Applicability
AA-003 AB-003 AC-003 AD-003 AE-003 AA-011	40 CFR 63.6585, Subpart ZZZZ	3.11		General requirements
	40 CFR 63.6605, Subpart ZZZZ			Manufacturer’s instructions
	40 CFR 63.6625(e), Subpart ZZZZ			3.12
AA-001 AB-001 AC-001 AA-002 AB-002 AC-002 AA-003 AE-003 AA-011	40 CFR 63.6604(b), Subpart ZZZZ	3.13		Operation and maintenance requirements
AA-002 AB-002 AC-002 AA-003 AE-003 AA-011	40 CFR 63.6603(a) and Table 2d, Subpart ZZZZ	3.14		
	AA-001	40 CFR 63.6625(h), Subpart ZZZZ	3.15	

AB-001 AC-001 AA-002 AB-002 AC-002 AA-003 AB-003 AC-003 AD-003 AE-003 AA-011	40 CFR 63.6625(i), Subpart ZZZZ	3.16		Oil analysis program
AA-001 AB-001 AC-001	40 CFR 63.6625(f), Subpart ZZZZ	3.17		Install and maintain non-resettable hour meter
AA-002 AB-002 AC-002 AA-003 AE-003 AA-011	40 CFR 63.6640(f), Subpart ZZZZ	3.18		Emergency engine requirements
AB-003 AC-003 AD-003	40 CFR 63.6603(a) and Table 2d, Subpart ZZZZ	3.19		Operation and maintenance requirements

3.1 For the entire facility, the permittee shall not combust fuel oil containing 1% or greater sulfur by weight in the fuel.

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

3.2 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% 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. 1.3.A.)

3.3 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 3.2. This shall not apply to vision obscuration caused by uncombined water droplets.

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

3.4 For the entire facility, the permittee shall operate the air emission equipment as efficiently as possible to provide the maximum reduction of air contaminants.

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

- 3.5 For Emission Points AA-001, AB-001, and AC-001, the permittee shall not allow the emission of ash and/or particulate matter to exceed the maximum permissible emission rate as determined by the relationship:

$$E = 0.8808 \times I^{-0.1667}$$

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).)

- 3.6 For Emission Point AA-001, AB-001, and AC-001, the permittee shall limit the operation of the unit to no more than 250 hours per year for each consecutive 12-month period on a rolling basis. In addition, all emergency engines shall comply with the applicable emergency operation requirements listed in Condition 3.18.

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

- 3.7 For Emission Point AC-002, the permittee shall limit the operation of the unit to no more than 100 hours per year for each consecutive 12-month period on a rolling basis. In addition, all emergency engines shall comply with the applicable emergency operation requirements listed in Condition 3.18.

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

- 3.8 For Emission Points AA-002, AB-002, AA-003, AE-003, and AA-011, the permittee shall limit the operation of the unit to no more than 500 hours per year for each consecutive 12-month period on a rolling basis. In addition, all emergency engines shall comply with the applicable emergency operation requirements listed in Condition 3.18.

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

- 3.9 For Emission Points AA-002, AB-002, AC-002, AA-003, AB-003, AC-003, AD-003, AE-003, and AA-011, the permittee shall not allow the emission of ash and/or particulate matter to exceed 0.6 pounds per million BTU per hour heat input.

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

- 3.10 For Emission Points AA-001, AB-001, AC-001, AA-002, AB-002, AC-002, AA-003, AB-003, AC-003, AD-003, AE-003, and AA-011, the permittee is subject to and shall comply with the National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (40 CFR 63, Subpart ZZZZ) and the General Provisions (40 CFR 63, Subpart A) as outlined in Table 8, Subpart ZZZZ. Emission Points AA-001, AB-001, AC-001, AA-002, AB-002, AC-002, AA-003, AE-003, AA-011, are considered emergency stationary RICE as defined in 40 CFR 63.6675, Subpart ZZZZ. Emission Points AB-003, AC-003, and AD-003, do not meet the definition of emergency stationary RICE.

(Ref.: 40 CFR 63.6585, Subpart ZZZZ)

- 3.11 For Emission Points AA-001, AB-001, AC-001, AA-002, AB-002, AC-002, AA-003, AB-003, AC-003, AD-003, AE-003, and AA-011, the permittee must be in compliance with the emission limitations, operating limitations, and other requirements of 40 CFR

63, Subpart ZZZZ, that apply at all times. At all times the permittee must operate and maintain the sources, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. The general duty to minimize emissions does not require the permittee to make any further efforts to reduce emissions if levels required 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.

(Ref.: 40 CFR 63.6605, Subpart ZZZZ)

- 3.12 For Emission Points AA-001, AB-001, AC-001, AA-002, AB-002, AC-002, AA-003, AB-003, AC-003, AD-003, AE-003, and AA-011, the permittee shall operate and maintain the stationary RICE and after-treatment control device (if any) according to the manufacturer's emission-related written instructions or develop your 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), 63.6640(a), and Item #9 of Table 6, Subpart ZZZZ)

- 3.13 For Emission Points AA-001, AB-001, AC-001, AA-002, AB-002, AC-002, AA-003, AB-003, AC-003, AD-003, AE-003, and AA-011, the permittee shall use diesel fuel that meets the requirements in 40 CFR 80.510(b) for nonroad diesel fuel.

(Ref.: 40 CFR 63.6604(b), Subpart ZZZZ)

- 3.14 For Emission Points AA-001, AB-001, AC-001, AA-002, AB-002, AC-002, AA-003, AE-003, and AA-011, the permittee shall comply with the following:

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

(Ref.: 40 CFR 63.6603(a), and Item #4 of Table 2d, Subpart ZZZZ)

- 3.15 For Emission Points AA-001, AB-001, AC-001, AA-002, AB-002, AC-002, AA-003, AB-003, AC-003, AD-003, AE-003, and AA-011, 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.

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

- 3.16 For Emission Points AA-001, AB-001, AC-001, AA-002, AB-002, AC-002, AA-003, AB-003, AC-003, AD-003, AE-003, and AA-011, the permittee may extend the specified oil changes requirements of Condition 3.14 and 3.19 by utilizing the oil analysis program outlined in 40 CFR 63.6625(i), Subpart ZZZZ.

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

- 3.17 For Emission Points AA-001, AB-001, AC-001, AA-002, AB-002, AC-002, AA-003, AE-003, and AA-011, the permittee shall install, operate, and maintain a non-resettable hour meter.

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

- 3.18 For Emission Points AA-001, AB-001, AC-001, AA-002, AB-002, AC-002, AA-003, AE-003, and AA-011, the permittee shall operate the emergency stationary RICE according to the following paragraph to be considered an emergency stationary RICE. 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 below, is prohibited. If the permittee does not operate the engines according to the requirements below, the engine will not be considered an emergency engine and must meet all the applicable requirements for non-emergency engines of 40 CFR 63, Subpart ZZZZ.

- (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 any combination of the purposes in 40 CFR 63.6640(f)(2)(i) through (iii), Subpart ZZZZ, for a maximum of 100 hours per calendar year. Any operation for non-emergency situations as allowed in paragraph (c) counts as part of the 100 hours per calendar year allowed by this paragraph.
- (c) The emergency stationary RICE may be operated for up to 50 hours per calendar year in non-emergency situations. The 50 hours of operation in non-emergency situations are counted as part of the 100 hours per calendar year for maintenance and testing and emergency demand response provided in paragraph (b) of this condition. Except as provided in 40 CFR 63.6640(f)(4)(i) and (ii), Subpart ZZZZ, the 50 hours per year for non-emergency situations cannot be used for peak shaving or non-emergency demand response, or to generate income for a facility to an electric grid or otherwise supply power as part of a financial arrangement with another entity.

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

- 3.19 For Emission Point AB-003, AC-003, and AD-003, the permittee shall comply with the following:

- (a) Change oil and filter every 1,440 hours of operation or annually, whichever comes first;
- (b) Inspect spark plugs every 1,440 hours of operation or annually, whichever comes first, and replace as necessary; and
- (c) Inspect all hoses and belts every 1,440 hours of operation or annually, whichever comes first, and replace as necessary.

(Ref.: 40 CFR 63.6603(a) and Item #7 of Table 2d, 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 five (5) years.
	11 Miss. Admin. Code Pt. 2, R. 2.2.B(11).	5.2	Fuel Oil	Monitoring and Recordkeeping
AA-001 AB-001 AC-001 AA-002 AB-002 AC-002 AA-003 AB-003 AC-003 AD-003 AE-003 AA-011	40 CFR 63, Subpart ZZZZ (National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines) 40 CFR 63.660, Subpart ZZZZ	5.3	Operation and Maintenance	Recordkeeping
	40 CFR 63.6655(a), (d), and (e), Subpart ZZZZ	5.4		
AA-001 AB-001 AC-001 AA-002 AB-002 AC-002 AA-003 AE-003 AA-011	40 CFR 63.6655(f), Subpart ZZZZ	5.5	Hours of Operation	Monitoring and Recordkeeping

5.1 For the entire facility, 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 maintain fuel oil certifications made by the fuel supplier certifying the fuel oil delivered contains less than 1% sulfur in the fuel. This certification shall be maintained on site for review by MDEQ at all times.

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

5.3 For Emission Points AA-001, AB-001, AC-001, AA-002, AB-002, AC-002, AA-003, AB-003, AC-003, AD-003, AE-003, and AA-011, the permittee shall comply with the following:

- (a) Records must be in a form suitable and readily available for expeditious review according to 40 CFR 63.10(b)(1), Subpart A.

- (b) As specified in 40 CFR 63.10(b)(1), records must be kept for five (5) years following the date of each occurrence measurement, maintenance, corrective action, report, or record.
- (c) Keep each record readily accessible in hard copy or electronic form for at least five (5) years after the date of each occurrence, measurement, maintenance, corrective action, report, or record according to 40 CFR 63.10(b)(1).

(Ref.: 40 CFR 63.6660, Subpart ZZZZ)

5.4 For Emission Points AA-001, AB-001, AC-001, AA-002, AB-002, AC-002, AA-003, AB-003, AC-003, AD-003, AE-003, and AA-011, the permittee shall maintain the records below:

- (a) A copy of each notification and report submitted to comply with 40 CFR 63, Subpart ZZZ.
- (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), Subpart A.
- (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, including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation.
- (f) The maintenance plan as required by Condition 3.12.
- (g) Records of the maintenance conducted on the stationary RICE in order to demonstrate that the permittee operated and maintained the stationary RICE and after control device (if any) according to the maintenance plan.

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

5.5 For Emission Points AA-001, AB-001, AC-001, AA-002, AB-002, AC-002, AA-003, AE-003, and AA-011, 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 63.6655(f), 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.
		6.3	All documents submitted to MDEQ shall be certified by a Responsible Official.
		6.4	Hours of operation
AA-001 AB-001 AC-001 AA-002 AB-002 AC-002 AA-003 AB-003 AC-003 AD-003 AE-003 AA-011	40 CFR 63, Subpart ZZZZ (National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines) 40 CFR 63.6640(b) and 63.6650(a) through (d), Subpart ZZZZ	6.5	Deviation reporting

6.1 For the entire facility, 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 For the entire facility, 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 For the entire facility, 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).)

6.4 For Emission Points AA-001, AB-001, AC-001, AA-002, AB-002, AC-002, AA-003, AE-003, and AA-011, the permittee shall report the hours of operation of the engine that is recorded through the non-resettable hour meter in accordance with Condition 6.2. The report shall contain how many hours are spent for emergency operation, including what classified the operation as emergency and how many hours are spent for non-emergency operation.

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

6.5 For Emission Points AA-001, AB-001, AC-001, AA-002, AB-002, AC-002, AA-003, AB-003, AC-003, AD-003, AE-003, and AA-011, the permittee shall report each instance in which each of the applicable operating limitations in Conditions 3.14, 3.18, and 3.19 were not met in accordance with Condition 6.2. These deviations shall be reported according to the following requirements:

- (a) If there were no deviations from any applicable operating limitations, a statement shall be included that there were no deviations from the emission limitations or operating limitations during the reporting period; or
- (b) If there was a deviation from any operating limitation during the reporting period, then the compliance report shall contain the following information:
 - (1) Company name and address.
 - (2) Statement by a responsible official, with that official's name, title, and signature, certifying the accuracy of the content of the report.
 - (3) Date of report and beginning and ending dates of the reporting period.
 - (4) The total operating time of the stationary RICE at which the deviation occurred during the reporting period.
 - (5) Information on the number, duration, and cause of deviations (including unknown cause, if applicable), as applicable, and the corrective action taken.
- (c) If there was a malfunction during the reporting period, the compliance report shall 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 shall also include a description of actions taken by the permittee during a malfunction of an affected source to minimize emissions, including actions taken to correct a malfunction.

(Ref.: 40 CFR Part 63.6640(b) and 63.6650(a) through (d), Subpart ZZZZ)