

STATE OF MISSISSIPPI AND FEDERALLY ENFORCEABLE AIR POLLUTION CONTROL PERMIT

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

THIS CERTIFIES THAT

Baptist Memorial Health Care Corporation
(d.b.a. Baptist Memorial Hospital – Desoto)
7601 Southcrest Parkway
Southaven, Desoto County, Mississippi

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.: 0680-00038

Effective Date: As Specified Herein.

Expires:

SECTION 1

A. GENERAL CONDITIONS

1. 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 (MDEQ) 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 Mississippi Administrative Code, Title 11, Part 2, Chapter 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 [a]ny physical change in or change in the method of operation of a facility which increases the actual emissions or the potential uncontrolled emissions of any air pollutant subject to regulation under the Federal Act emitted into the atmosphere by that facility or which results in the emission of any air pollutant subject to regulation under the Federal Act into the atmosphere not previously emitted. A physical change or change in the method of operation shall not include:

- (a) Routine maintenance, repair, and replacement;
- (b) Use of an alternative fuel or raw material by reason of an order under Sections 2(a) and (b) of the Federal Energy Supply and Environmental Coordination Act of 1974 (or any superseding legislation) or by reason of a natural gas curtailment plan pursuant to the Federal Power Act;
- (c) Use of an alternative fuel by reason of an order or rule under Section 125 of the Federal Act;
- (d) Use of an alternative fuel or raw material by a stationary source which:

- (1) The source was capable of accommodating before January 6, 1975, unless such change would be prohibited under any federally enforceable permit condition which was established after January 6, 1975, pursuant to 40 CFR 52.21 or under regulations approved pursuant to 40 CFR 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. 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 Mississippi Administrative Code, Title 11, Part 2, Chapter 3 – "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 Mississippi Administrative Code, Title 11, Part 2, Chapter 1, Rule 1.10 – "Provisions for Upsets, Startups, and Shutdowns".

(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, start-ups, 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 five (5) working days of the time the upset began, the source submitted a written report to the Department describing the upset, the steps taken to mitigate excess emissions or any other noncompliance, and the corrective actions taken and;
 - (v) That as soon as practicable but no later than twenty-four (24) hours of becoming aware of an upset that caused an immediate adverse impact to human health or the environment beyond the source boundary or caused a general nuisance to the public, the source provided notification to the Department.
- (2) In any enforcement proceeding by the Commission, the source seeking to establish the occurrence of an upset has the burden of proof.
- (3) This provision is in addition to any upset provision contained in any applicable requirement.
- (4) These upset provisions apply only to enforcement actions by the Commission and are not intended to prohibit the EPA or third party enforcement actions.
- (b) Start-ups and Shutdowns (as defined by 11 Miss. Admin. Code Pt. 2, R. 1.2.)
 - (1) Start-ups and shutdowns are part of normal source operation. Emission limitations apply during start-ups and shutdowns unless source specific emission limitations or work practice standards for start-ups and shutdowns are defined by an applicable rule, regulation, or permit.
 - (2) Where the source is unable to comply with existing emission limitations established under the State Implementation Plan (SIP) and defined in

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

- (3) Where an upset as defined in Rule 1.2 occurs during 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 of 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 MDEQ within a reasonable time any information the MDEQ 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 MDEQ 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 MDEQ 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-000	Facility-Wide (Baptist Memorial Hospital – DeSoto)
AA-001	10.21 MMBTU / Hour Dual Fuel-Fired (Natural Gas / Fuel Oil) Boiler [manufactured in 1999]
AA-002	10.50 MMBTU / Hour Dual Fuel-Fired (Natural Gas / Fuel Oil) Boiler [manufactured in 1987]
AA-003	20.412 MMBTU / Hour Dual Fuel-Fired (Natural Gas / Fuel Oil) Boiler [manufactured in 2004]
AA-004	Three (3) Natural Gas-Fired Air Make-Up Units [total combined heat input: 1.933 MMBTU / hour]
AA-005	1,109 HP (7.96 MMBTU / Hour) Diesel-Fired Emergency Generator Engine [manufactured in 2000]
AA-007	1,127 HP (8.09 MMBTU / Hour) Diesel-Fired Emergency Generator Engine [manufactured in 1987]
AA-008	1,524 HP (10.93 MMBTU / Hour) Diesel-Fired Emergency Generator Engine [manufactured in 2005]
AA-009	1,524 HP (10.93 MMBTU / Hour) Diesel-Fired Emergency Generator Engine [manufactured in 2005]
AA-010	1,524 HP (10.93 MMBTU / Hour) Diesel-Fired Emergency Generator Engine [manufactured in 2005]
AA-011	12,000-Gallon Above-Ground Diesel Fuel Storage Tank
AA-012	15,000-Gallon Underground Diesel Fuel Storage Tank
AA-013	Eight (8) Generator Diesel Day Storage Tanks [includes seven (7) 200-gallon storage tanks and one (1) 100-gallon storage tank]
AA-014	1,112 HP (829 kW) Diesel-Fired Emergency Generator Engine [total heat input: 7.98 MMBTU / hour; manufactured in 2021]

SECTION 3 EMISSION LIMITATIONS AND STANDARDS

Emission Point(s)	Applicable Requirement	Condition Number	Pollutant / Parameter	Limitation / Standard
AA-000	11 Miss. Admin. Code Pt. 2, R. 1.3.A.	3.1	Opacity (Smoke)	$\leq 40\%$
	11 Miss. Admin. Code Pt. 2, R. 1.3.B.	3.2	Opacity	
	11 Miss. Admin. Code Pt. 2, R. 2.2.B.(10).	3.3	SO ₂	99.0 tpy (Rolling 12-Month Total)
AA-001 AA-002 AA-003 AA-008 AA-009 AA-010	11 Miss. Admin. Code Pt. 2, R. 1.3.D.(1)(b).	3.4	PM (filterable)	$E = 0.8808 \cdot (I^{-0.1667})$
AA-001 AA-002 AA-003	11 Miss. Admin. Code Pt. 2, R. 1.4.A.(1).	3.5	SO ₂	4.8 lb. / MMBTU Heat Input
	11 Miss. Admin. Code Pt. 2, R. 2.2.B.(10). 40 CFR 63.11237; Subpart JJJJJ – “Gas-fired boiler”	3.6	Fuel Oil Usage	Limit to No More than 48 Hours per Calendar Year (for Each Boiler)
AA-001 AA-003	40 CFR Part 60, Subpart Dc – Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units 40 CFR 60.40c(a); Subpart Dc	3.7	SO ₂	General Applicability
	40 CFR 60.42c(d) and (i); Subpart Dc	3.8		0.5 wt.% Sulfur Content in Fuel
AA-004 AA-005 AA-007 AA-014	11 Miss. Admin. Code Pt. 2, R. 1.3.D.(1)(a).	3.9	PM	0.6 lb. / MMBTU
AA-005 AA-007 AA-008 AA-009 AA-010 AA-014	40 CFR Part 63, Subpart ZZZZ – NESHAP for Stationary Reciprocating Internal Combustion Engines 40 CFR 63.6585(a), (c), (f)(3) and 63.6590(c)(1); Subpart ZZZZ	3.10	HAPs	General Applicability

Emission Point(s)	Applicable Requirement	Condition Number	Pollutant / Parameter	Limitation / Standard
AA-005 AA-007 AA-008 AA-009 AA-010 AA-014	40 CFR 63.6640(f)(1), (2), and (4); Subpart ZZZZ 40 CFR 60.4211(f)(1) – (3); Subpart IIII	3.11	Operational Requirements	100 Hours / Calendar Year for Maintenance and Readiness Testing; 50 Hours / Calendar Year for Non-Emergency Situations
AA-005 AA-007 AA-008 AA-009 AA-010	40 CFR 63.6625(f); Subpart ZZZZ 11 Miss. Admin. Code Pt. 2, R. 2.2.B.(10).	3.12	Hours of Operation	Operate and Maintain a Non-Resettable Hour Meter
AA-014	40 CFR Part 60, Subpart IIII – Standards of Performance for Stationary Compression Ignition Combustion Engines 40 CFR 60.4200(a)(2); Subpart IIII	3.13	NMHC + NO _x CO PM	General Applicability
	40 CFR 60.4207(b); Subpart IIII	3.14	Fuel Requirement	15 ppm Sulfur Content (Max.); and 40 Cetane Index (Min.) or 35% Aromatic Content (Max. – by volume)
	40 CFR 60.4202(a)(2), 60.4205(b), and 60.4206; Subpart IIII	3.15	NMHC + NO _x	4.0 grams / kW-hour
			CO	3.5 grams / kW-hour
			PM	0.20 grams / kW-hour
	40 CFR 60.4202(a)(2), 60.4205(b), and 60.4206; Subpart IIII	3.16	Opacity (Smoke)	20% (Acceleration Mode) 15% (Lugging Mode) 50% (Peaks during Acceleration or Lugging Mode)

- 3.1 For Emission Point AA-000 (Facility-Wide), except as otherwise specified herein, the permittee shall not cause or allow the emission of smoke from a point source into the open air from any process that exceeds forty (40) percent opacity.

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

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

- 3.2 For Emission Point AA-000 (Facility-Wide), unless otherwise specified herein, the permittee shall not cause or allow the discharge into the ambient air from any point source 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 Emission Point AA-000 (Facility-Wide), the permittee shall limit the total emission of sulfur dioxide (SO₂) from all sources that can reasonably emit the pollutant to no more than 99.0 tons per year (tpy) based on a rolling 12-month total.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.2.B.(10). – Title V Avoidance Limit)

- 3.4 For Emission Points AA-001, AA-002, AA-003, AA-008, AA-009, and AA-010 (Dual Fuel-Fired Boilers and Emergency Generator Engines), the maximum emission of ash and/or particulate matter (PM) from each noted unit shall not exceed an emission rate as determined by the following relationship:

$$E = 0.8808 \cdot (I^{-0.1667})$$

Where “E” is the emission rate in pounds per MMBTU per hour heat input and “I” is the heat input in MMBTU per hour.

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

- 3.5 For Emission Points AA-001, AA-002, and AA-003 (Dual Fuel-Fired Boilers), except as otherwise specified herein, 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 or SO₂) per million BTU (MMBTU) heat input.

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

- 3.6 Emission Points AA-001, AA-002, and AA-003 (Dual Fuel-Fired Boilers), the permittee shall limit individual boiler operation while combusting fuel oil to only periodic testing, maintenance, or operator training that pertains to liquid fuel usage for a combined duration of no more than forty-eight (48) hours during any calendar year in order for a boiler to be classified as a “*gas-fired boiler*”. Periods of start-up, natural gas curtailment, and/or natural gas supply emergencies do not count towards these fuel usage restrictions for a boiler.

If the permittee fails to adhere to the fuel usage restrictions for a boiler, the permittee shall be subject to and shall immediately comply with the applicable requirements for an “*oil-fired boiler*” found in 40 CFR Part 63, Subpart JJJJJ – National Emission Standards for Hazardous Air Pollutants (NESHAP) for Industrial, Commercial, and Institutional Boilers Area Sources.

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

(Ref.: 40 CFR 63.11237; Subpart JJJJJ – “*Gas-fired boiler*”)

- 3.7 Emission Points AA-001 and AA-003 (Dual Fuel-Fired Boilers) are subject to and shall comply with applicable requirements found in 40 CFR Part 60, Subpart Dc – Standards of Performance for Small Industrial, Commercial, and Institutional Steam Generating Units.

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

- 3.8 For Emission Points AA-001 and AA-003 (Dual Fuel-Fired Boilers), the permittee shall combust fuel oil that contains no more than 0.5 percent sulfur content by weight.

The applicable SO₂ emission standard shall apply at all times, including periods of start-up, shutdown, and malfunction.

(Ref.: 40 CFR 60.42c(d) and (i); Subpart Dc)

- 3.9 For Emission Points AA-004, AA-005, AA-007 and AA-014, (Air Make-Up Units and Emergency Generator Engines), the maximum emission of ash and/or PM from each process unit with a heat input rate less than ten (10) MMBTU per hour shall not exceed 0.6 pounds per MMBTU heat input.

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

- 3.10 For Emission Points AA-005, AA-007, AA-008, AA-009, AA-010 and AA-014 (Emergency Generator Engines), the permittee is subject and shall comply with the applicable requirements found in 40 CFR Part 63, Subpart ZZZZ – NESHAP for Stationary Reciprocating Internal Combustion Engines and 40 CFR Part 3, Subpart A – General Provisions (as required in Table 8 of Subpart ZZZZ).

For the purpose of this permit, Emission Points AA-005, AA-007, AA-008, AA-009, and AA-010 are existing emergency stationary RICE located at an institutional facility that is an area source of HAPs; therefore, Emission Points AA-005, AA-007, AA-008, AA-009, and AA-010 are exempt from complying with the requirements found in Subpart ZZZZ contingent upon the permittee complying with the operational requirements specified in Condition 3.11.

For the purpose of this permit, Emission Point AA-014 is considered “new” stationary RICE because construction commenced after June 12, 2006. Therefore, the permittee shall comply with Subpart ZZZZ by complying with the requirements found in 40 CFR Part 60, Subpart IIII. No further requirements apply for such engines under Subpart ZZZZ.

(Ref.: 40 CFR 63.6585(a), (c), (f)(3), and 63.6590(c)(1); Subpart ZZZZ)

- 3.11 For Emission Points AA-005, AA-007, AA-008, AA-009, AA-010 and AA-014, any operation of an engine for any reason other than emergency operation, maintenance and testing, and operation in non-emergency situations for more than fifty (50) hours per year is prohibited. If an engine is not operated in accordance with paragraphs (a) through (c) of

this condition, the engine will not be considered an emergency engine under the referenced regulation and shall meet all requirements for a corresponding non-emergency engine.

- (a) There is no time limit on the use of an engine in emergency situations.
- (b) The permittee may operate an engine 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 accompanied with the engine. Maintenance checks and readiness testing of an engine are limited to a maximum of one hundred (100) hours per calendar year. The permittee may petition the MDEQ for approval of additional hours to be used for maintenance checks and readiness testing. However, a petition is not required if the permittee maintains records indicating that Federal, State, or local standards require maintenance and testing of the engine beyond 100 hours per calendar year.
- (c) The permittee may operate an engine for up to 50 hours per calendar year in non-emergency situations. The 50 hours of operation in non-emergency situations are counted as part of the 100 hours per calendar year for maintenance and testing. The 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 supply power to an electric grid, or otherwise supply power as part of a financial arrangement with another entity.

(Ref.: 40 CFR 63.6640(f)(1), (2), and (4); Subpart ZZZZ)

(Ref.: 40 CFR 60.4211(f)(1) – (3); Subpart IIII)

- 3.12 For Emission Points AA-005, AA-007, AA-008, AA-009, and AA-010 (Emergency Generator Engines), the permittee shall operate and maintain a non-resettable hour meter on each engine.

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

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

- 3.13 For Emission Point AA-014, the permittee is subject to and shall comply with the applicable requirements found in 40 CFR Part 60, Subpart IIII – Standards of Performance for Stationary Compression Ignition Internal Combustion Engines and 40 CFR Part 60, Subpart A – General Provisions (as required in Table 8 of Subpart IIII).

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

- 3.14 For Emission Point AA-014, the permittee shall only combust ultra-low-sulfur diesel (ULSD) fuel within the engine that meets the following requirements (on a per-gallon basis):

- (a) A maximum sulfur content of fifteen (15) ppm; and

- (b) A minimum cetane index of forty (40) or a maximum aromatic content of thirty-five (35) volume percent.

(Ref.: 40 CFR 60.4207(b); Subpart IIII)

- 3.15 For Emission Point AA-014, the permittee shall comply with the following emission standards:

- (a) Non-Methane Hydrocarbons and Nitrogen Oxides (NMHC + NO_x): 4.0 grams per kilowatt-hour;
- (b) CO: 3.5 grams per kilowatt-hour; and
- (c) PM: 0.20 grams per kilowatt-hour.

The engine shall be installed and configured in accordance with the manufacturer's emission-related specifications. Additionally, the permittee shall operate and maintain the engine in such a manner as to achieve the referenced emission standards over the entire life of the engine.

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

- 3.16 For Emission Point AA-014, the permittee shall not exceed the following opacity standards:

- (a) Twenty (20) percent during the acceleration mode;
- (b) Fifteen (15) percent during the lugging mode; and
- (c) Fifty (50) percent during the peaks in either the acceleration or lugging modes.

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

SECTION 4
WORK PRACTICE STANDARDS

Emission Point(s)	Applicable Requirement	Condition Number	Pollutant / Parameter	Limit / Standard
AA-014	40 CFR 60.4211(a); Subpart IIII	4.1	NMHC + NO _x CO PM	Perform Work Practices

4.1 For Emission Point AA-014, the permittee shall perform the following work practices:

- (a) Operate and maintain the engine and control device (if any) 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 requirements of 40 CFR Part 1068 (as applicable).

(Ref.: 40 CFR 60.4211(a); Subpart IIII)

SECTION 5 MONITORING AND RECORDKEEPING REQUIREMENTS

Emission Point(s)	Applicable Requirement	Condition Number	Pollutant / Parameter	Monitoring / Recordkeeping Requirement
AA-000	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	SO ₂	Calculate and Record Emissions (Monthly and Rolling 12-Month Period)
AA-001 AA-002 AA-003	40 CFR 60.48c(g)(2); Subpart Dc 11 Miss. Admin. Code Pt. 2, R. 2.2.B.(11).	5.3	SO ₂	Monitor and Record Consumption of Each Fuel (Monthly)
	11 Miss. Admin. Code Pt. 2, R. 2.2.B.(11).	5.4	Fuel Oil Usage	Monitor the Date, Time, and Duration of Fuel Oil Combustion Periods
AA-001 AA-003	40 CFR 60.42c(h)(1), (4), and 60.44c(h); Subpart Dc 11 Miss. Admin. Code Pt. 2, R. 2.2.B.(11).	5.5	SO ₂	Maintain Documentation on Sulfur Content for Each Fuel Source
AA-005 AA-007 AA-008 AA-009 AA-010 AA-014	40 CFR 63.6655(f)(2); Subpart ZZZZ 11 Miss. Admin. Code Pt. 2, R. 2.2.B.(11).	5.6	Emergency Engine Status	Monitor Hours of Operation Monthly (Emergency and Non-Emergency)
AA-014	40 CFR 60.4114(a)(2); Subpart III	5.7	NMHC + NO _x	Recordkeeping Requirements
	40 CFR 60.4211(g)(2) and (3); Subpart III	5.8	CO PM	Conduct Compliance Demonstration Measures (As Applicable)

- 5.1 For Emission Point AA-000 (Facility-Wide), 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. Supporting 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. The copies of such records shall be submitted to the 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 Emission Point AA-000 (Facility-Wide), the permittee shall calculate and record the total emission of sulfur dioxide (SO₂) from all sources that can reasonably emit the pollutant in tons on both a monthly and rolling 12-month total basis.

Unless otherwise specified herein, the permittee shall include all reference data utilized to validate calculated emissions (*e.g.* engineering judgement determinations, operational data, applicable emission factors, etc.).

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

- 5.3 For Emission Points AA-001, AA-002, and AA-003 (Dual Fuel-Fired Boilers), the permittee shall monitor and record the respective volume (*i.e.* gallons or standard cubic feet) of each fuel combusted within a boiler on a monthly basis.

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

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

- 5.4 For Emission Points AA-001, AA-002, and AA-003 (Dual Fuel-Fired Boilers), the permittee shall monitor and record the date, time, and duration (in hours) of every occurrence in which each boiler combusts fuel oil as the primary fuel source. Additionally, the permittee shall include a written explanation with each noted occurrence that details the purpose for combusting fuel oil.

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

- 5.5 For Emission Points AA-001 and AA-003 (Dual Fuel-Fired Boilers), the permittee shall maintain documentation for any fuel oil combusted in a boiler that both demonstrates compliance with the sulfur content limitation specified in Condition 3.8 and contains the information required by Condition 6.7.

Additionally, the permittee shall maintain documentation for any gaseous fuel combusted in a boiler that displays the sulfur content, the potential sulfur dioxide (SO₂) emission rate, and the information required by Condition 6.7. Only an initial certification record must be obtained from the applicable gaseous fuel supplier upon issuance of this permit.

The maintained documentation required by this condition may serve as an approved substitute for the applicable performance testing requirements specified in 40 CFR Part 60, Subpart Dc.

(Ref.: 40 CFR 60.42c(h)(1), (4), and 60.44c(h); Subpart Dc)

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

- 5.6 For Emission Points AA-005, AA-007, AA-008, AA-009, AA-010, and AA-014 (Emergency Generator Engines), the permittee shall monitor and record (via a non-resettable hour meter) the hours of operation for each engine on a monthly basis for both emergency and non-emergency service. Additionally, the permittee shall maintain

documentation that details what classified each occurrence as either an “emergency” or a “non-emergency”.

(Ref.: 40 CFR 63.6655(f)(2); Subpart ZZZZ)

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

5.7 For Emission Point AA-014, the permittee shall maintain documentation that details the following information:

- (a) All notifications submitted to comply with Subpart III;
- (b) Any maintenance conducted on an engine; and
- (c) Documentation from the manufacturer that indicates the engine is certified to meet the emission standards specified in Condition 3.15.

(Ref.: 40 CFR 60.4114(a)(2); Subpart III)

5.8 For Emission Point AA-014, the permittee shall demonstrate compliance with the emission standards specified in Condition 3.15 through the following actions **if** the permittee does not operate and maintain the engine according to the manufacturer’s emission-related written instructions or the permittee changes emission-related settings in a way that is not permitted by the manufacturer:

- (a) Keep a maintenance plan, records of conducted maintenance, and (to the extent practicable) maintain and operate the engine in a manner consistent with good air pollution control practice for minimizing emissions.
- (b) The permittee shall conduct an initial performance test in accordance with the procedures outlined in 40 CFR 60.4212(a) – (c); Subpart III (as applicable) to demonstrate compliance with the applicable emission standards in accordance with one of the following deadlines:
 - (1) Within one (1) year of start-up, or
 - (2) Within one (1) year after the engine is no longer installed, configured, operated, and maintained in accordance with the manufacturer's emission-related written instructions, or
 - (3) Within one (1) year after the permittee changes emission-related settings in a way that is not permitted by the manufacturer.

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

SECTION 6 REPORTING REQUIREMENTS

Emission Point(s)	Applicable Requirement(s)	Condition Number	Reporting Requirement(s)
AA-000	11 Miss. Admin. Code Pt. 2, R. 2.2.B.(11).	6.1	Submit Notifications / Report Certified by a Responsible Official or Duly Authorized Representative
		6.2	Report Permit Deviations Within Five (5) Working Days
		6.3	Submit a Certified Annual Monitoring Report
		6.4	Submit an Annual Summary of SO ₂ Emissions
AA-001 AA-002 AA-003	11 Miss. Admin. Code Pt. 2, R. 2.2.B.(11).	6.5	Submit an Annual Report on Diesel Fuel Usage Data
		6.6	Submit a Notification on Subpart JJJJJ Applicability
AA-001 AA-003	40 CFR 60.48c(f)(1) – (4); Subpart Dc 11 Miss. Admin. Code Pt. 2, R. 2.2.B.(11).	6.7	Submit an Annual Summary on Fuel Supplier Documentation
AA-005 AA-007 AA-008 AA-009 AA-010 AA-014	11 Miss. Admin. Code Pt. 2, R. 2.2.B.(11).	6.8	Submit an Annual Summary on Hours of Operation (Non-Emergency and Emergency)

- 6.1 For Emission Point AA-000 (Facility-Wide), 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).)

- 6.2 For Emission Point AA-000 (Facility-Wide), except as otherwise specified herein, the permittee shall report all deviations from permit requirements (including those attributable to upsets), the probable cause of such deviations, and any corrective actions or preventive measures taken. The report shall be made within five (5) working days of the time the deviation began.

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

- 6.3 For Emission Point AA-100 (Facility-Wide), except as otherwise specified herein, the permittee shall submit a certified annual monitoring report (AMR) of any required monitoring no later than January 31 of each calendar year for the preceding twelve (12) month period. If the permit was reissued or modified during the course of the preceding six-month period, the AMR shall address each version of the permit.

This report shall address any required monitoring specified in Section 6 of this 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 For Emission Point AA-000 (Facility-Wide), the permittee shall submit an annual report in accordance with Condition 6.3 that summarizes the total emission of sulfur dioxide (SO₂) in tons from all sources that can reasonably emit the pollutant on both a monthly and rolling 12-month total basis.

Additionally, the report shall include all reference data utilized to validate the reported SO₂ emissions (e.g. applicable emission factors, engineering judgement determinations, etc.).

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

- 6.5 For Emission Points AA-001, AA-002, and AA-003 (Dual Fuel-Fired Boilers), the permittee shall submit an annual report in accordance with Condition 6.3 that details the following information:

- (a) The total duration (in hours per month) of all periods in which each boiler was operated using fuel oil / diesel; and
- (b) The volume of each fuel combusted within a boiler monthly.

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

- 6.6 For Emission Points AA-001, AA-002, and AA-003 (Dual Fuel-Fired Boilers), the permittee shall submit a written notification to the MDEQ that indicates the date in which a boiler became subject to 40 CFR Part 63, Subpart JJJJJ **if** an exceedance of the fuel usage restriction specified in Condition 3.6 occurs. The notification shall be submitted no later than thirty (30) days after the applicability determination was made.

Additionally, the report shall outline any emission limitations, monitoring requirements, and/or reporting requirements within the subpart applicable to an affected boiler.

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

6.7 For Emission Points AA-001 and AA-003 (Dual Fuel-Fired Boilers), the permittee shall submit an annual report, in accordance with Condition 6.3, that summarizes the applicable fuel supplier documentation required by Condition 5.5 and the following information:

(a) For Distillate Oil:

- (1) The name of the oil supplier.
- (2) A statement from the corresponding supplier that the utilized fuel oil / diesel fuel complies with the specifications under the definition of distillate oil. For the purpose of this permit, “*distillate oil*” is defined as follows:
 - (i) Fuel oil that complies with fuel oil numbers 1 or 2, as defined by the American Society for Testing and Materials (ASTM) in Method D396;
 - (ii) Diesel fuel oil numbers 1 or 2, as defined by the ASTM in Method D975;
 - (iii) Kerosene, as defined by the ASTM in Method D3699;
 - (iv) Biodiesel, as defined by the ASTM in Method D6751; and
 - (v) Biodiesel blends, as defined by the ASTM in Method D7467.
- (3) The sulfur content or maximum sulfur content of the oil.

(b) For Other Fuels (i.e. natural gas):

- (1) The name of the supplier of the fuel;
- (2) The potential sulfur emissions rate or maximum potential sulfur emission rate of the utilized fuel in pounds per MMBTU heat input; and
- (3) The method used to determine the potential sulfur emissions rate of the fuel.

In accordance with Condition 5.5, the permittee may derive the information required in paragraph (b) of this condition from the same initial certification record annually.

(Ref.: 40 CFR 60.48c(f)(1) – (4); Subpart Dc)

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

6.8 For Emission Points AA-005, AA-007, AA-008, AA-009, AA-010 and AA-014 (Emergency Generator Engines), the permittee shall submit an annual report in accordance with Condition 6.3 that details the hours of operation for each engine. The report shall also document how many hours are spent for emergency operation, what classified the operation as an emergency situation, how many hours are spent for non-emergency operation, and the circumstance(s) for the non-emergency operation.

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