

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

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

**THIS CERTIFIES THAT**

University of Mississippi Medical Center  
2500 North State Street  
Jackson, Hinds 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**

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**AUTHORIZED SIGNATURE  
MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY**

**Issued: October 8, 2015**

**Permit No.: 1080-00102**

**Modified: May 24, 2018; November 13, 2018; \_\_\_\_\_**

**Expires: September 30, 2020**

## 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 Regulation 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. Nothing herein contained shall be construed as releasing the permittee from any liability for damage to persons or property by reason of the installation, maintenance, or operation of the air cleaning facility, or from compliance with the applicable statutes of the State, or with local laws, regulations, or ordinances.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.2.B.(7).)

11. 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).)

12. 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 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 51.66;
- (e) An increase in the hours of operation or in the production rate unless such change would be prohibited under any federally enforceable permit condition which was established after January 6, 1975, pursuant to 40 CFR 52.21 or under regulations approved pursuant to 40 CFR Subpart I or 40 CFR 51.166; or
- (f) Any change in ownership of the stationary source.

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

**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 Regulation 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, start-ups, and shutdowns.

(a) Upsets

- (1) For an upset defined in Regulation 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 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 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 Regulation 11 Miss. Admin. Code, 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 Regulation 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

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.)

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## SECTION 2 EMISSION POINT DESCRIPTION

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

<b>Emission Point</b>	<b>Description</b>
AA-100	Facility-Wide (University of Mississippi Medical Center)
AA-101a	No. 7 Natural Gas / Fuel Oil-Fired Boiler (54.31 MMBTU / Hour – located in the Boiler Room – commenced operation in 1995)
AA-101b	No. 10 Natural Gas / Fuel Oil-Fired Boiler (34.15 MMBTU / Hour – located in the Boiler Room – commenced operation in 1999)
AA-102	No. 11 Natural Gas / Fuel Oil-Fired Boiler (62.7 MMBTU / Hour – located in the Boiler Room – commenced operation in 2010)
AA-105	10.5 MMBTU / Hour Natural Gas / Diesel Fuel-Fired Boiler (located at the Transitional Research Building – manufactured in 2017)
AA-106	10.5 MMBTU / Hour Natural Gas / Diesel Fuel-Fired Boiler (located at the Transitional Research Building – manufactured in 2017)
AA-200a	No. 8 Natural Gas-Fired Boiler (16.75 MMBTU / Hour – located at the Campus Laundry – commenced operation in 1996)
AA-200b	No. 9 Natural Gas-Fired Boiler (16.75 MMBTU / Hour – located at the Campus Laundry – commenced operation in 1996)
AA-200c	6.0 MMBTU / Hour Natural Gas-Fired Water Heater Boiler (located in the Children’s Hospital Expansion – manufactured in 2019)
AA-200d	6.0 MMBTU / Hour Natural Gas-Fired Water Heater Boiler (located in the Children’s Hospital Expansion – manufactured in 2019)
AA-200e	6.0 MMBTU / Hour Natural Gas-Fired Water Heater Boiler (located in the Children’s Hospital Expansion – manufactured in 2019)
AA-400a	No. 1 Portable Diesel-Fired Emergency Generator Engine (632 HP – manufactured in pre-2006)
AA-400c	No. 5 Diesel-Fired Emergency Generator Engine (877 HP – located at the South & Children’s Hospital – manufactured in pre-2006)
AA-400d	No. 11 Diesel-Fired Emergency Generator Engine (1,100 HP – located at the N543, Kidney Unit, & Pathology Facilities – manufactured in pre-2006)

<b>EMISSION POINT</b>	<b>DESCRIPTION</b>
AA-400e	No. 12 Diesel-Fired Emergency Generator Engine (1,100 HP – located at the Acute Service Facility – manufactured in pre-2006)
AA-400f	No. 13 Diesel-Fired Emergency Generator Engine (755 HP – located at Acute Service Facility – manufactured in pre-2006)
AA-400g	No. 14 Diesel-Fired Emergency Generator Engine (245 HP – located at South & C-Wing Facility – manufactured in pre-2006)
AA-400h	No. 17 Diesel-Fired Emergency Generator Engine (66 HP – located at the URC – manufactured in pre-2006)
AA-400j	No. 20 Diesel-Fired Emergency Generator Engine (375 HP – located at the SHRP Facility – manufactured in pre-2006)
AA-400k	No. 22 Diesel-Fired Emergency Generator Engine (900 HP – located at the Wiser Facility – manufactured in pre-2006)
AA-400l	No. 26 Diesel-Fired Emergency Generator Engine (1,125 HP – located at the CCT & Adult Facility – manufactured in pre-2006)
AA-401	No. 28 Diesel-Fired Emergency Generator Engine (1,357 HP – manufactured in 2007)
AA-402	No. 29 Diesel-Fired Emergency Generator Engine (1,502 HP – manufactured in 2007)
AA-403	No. 30 Diesel-Fired Emergency Generator Engine (1,500 HP – manufactured in 2007)
AA-404	No. 31 Diesel-Fired Emergency Generator Engine (424 HP – manufactured in 2007)
AA-405	No. 33 Diesel-Fired Emergency Generator Engine (671 HP – manufactured in 2010)
AA-406	No. 34 Diesel-Fired Emergency Generator Engine (2,205 HP – services the School of Medicine, the Dental School, the LRC, and Clinical Science – manufactured in 2013)
AA-407	530 HP Natural Gas-Fired Emergency Generator Engine (3.71 MMBTU / Hour – manufactured in 2016)
AA-408	1,910 HP Diesel-Fired Back-Up Emergency Generator Engine (13.37 MMBTU / Hour – manufactured in 2017)
AA-409	839 HP Diesel-Fired Back-Up Emergency Generator Engine (5.87 MMBTU / Hour – located at the Children’s Hospital Expansion – manufactured in 2018)
AA-410	839 HP Diesel-Fired Back-Up Emergency Generator Engine (5.87 MMBTU / Hour – located at the Children’s Hospital Expansion – manufactured in 2018)

EMISSION POINT	DESCRIPTION
AA-411	839 HP Diesel-Fired Back-Up Emergency Generator Engine (5.87 MMBTU / Hour – located at the Children’s Hospital Expansion – manufactured in 2018)
AA-412	839 HP Diesel-Fired Back-Up Emergency Generator Engine (5.87 MMBTU / Hour – located at the Children’s Hospital Expansion – manufactured in 2018)
AA-413	839 HP Diesel-Fired Back-Up Emergency Generator Engine (5.87 MMBTU / Hour – located at the Children’s Hospital Expansion – manufactured in 2018)
AA-500a	No. 21 Natural Gas-Fired Emergency Generator Engine (80 HP – located at Student Union – manufactured in pre-2000)
AA-500b	No. 27 Natural Gas-Fired Emergency Generator Engine (115 HP – located at Alumni Building – manufactured in pre-2000)
AA-500c	No. 32 Natural Gas-Fired Emergency Generator Engine (115 HP – located at Farmer’s Market – manufactured in 2009–2010)
AA-500d	659 HP Natural Gas-Fired Back-Up Emergency Generator Engine (4.62 MMBTU / Hour – located in the Center for Emergency Services – manufactured in 2018)
AA-600	292 HP Diesel-Fired Emergency Fire Water Pump Engine (commenced operation in 1990)
AA-700a	Thirty (30) Natural Gas-Fired Heating Components (Total Heat Input: 30.52 MMBTU / Hour – commenced operation at the earliest after 1977)
AA-700b	Five (5) Natural Gas-Fired Water Heaters (Tank Capacity: 225 Gallons Each – Total Heat Input: 4.25 MMBTU / Hour – located in the Children’s Hospital Expansion)
AA-800	Eighteen (18) Natural Gas-Fired Air Make-Up Burner Units (Total Heat Input: 5.35 MMBTU / Hour – commenced operation at the earliest in 1999)
AA-900a	8,000-Gallon Fixed-Roof Diesel Fuel Aboveground Storage Tank
AA-900b	12,000-Gallon Fixed-Roof Unleaded Gasoline Aboveground Storage Tank
AA-900c	500-Gallon Fixed-Roof Used Oil Aboveground Storage Tank
AA-900d	12,000-Gallon Fixed-Roof Unleaded Gasoline Aboveground Storage Tank
AA-900g	Twenty-Two (22) Day Diesel Fuel Storage Tanks
AA-900h	Thirteen (13) Cooling Towers

EMISSION POINT	DESCRIPTION
AA-900i	6,000-Gallon Fixed-Roof Diesel Fuel Aboveground Storage Tank
AA-900j	3,000-Gallon Fixed-Roof Diesel Fuel Aboveground Storage Tank
AA-930	10,000-Gallon Fixed-Roof Aviation Fuel Underground Storage Tank
AA-931	20,000-Gallon Fixed-Roof Diesel Fuel Underground Storage Tank

### SECTION 3 EMISSION LIMITATIONS AND STANDARDS

Emission Point(s)	Applicable Requirement(s)	Condition Number	Pollutant(s) / Parameter(s)	Limitation(s) / Standard(s)
AA-100	11 Miss. Admin. Code Pt. 2, R. 1.3.A.	3.1	Opacity	40%
	11 Miss. Admin. Code Pt. 2, R. 1.3.B.	3.2		
	11 Miss. Admin. Code Pt. 2, R. 2.2.B.(10).	3.3	SO <sub>2</sub>	99.0 tpy
		3.4	NO <sub>x</sub>	
		3.5	CO	
	11 Miss. Admin. Code Pt. 2, R. 1.4.A.(1).	3.6	SO <sub>2</sub>	4.8 pounds per MMBTU heat input
AA-101a AA-101b AA-102 AA-105 AA-106 AA-200a AA-200b	40 CFR Part 60, Subpart Dc – Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units	3.7	SO <sub>2</sub>	Applicability
	40 CFR 60.40c(a); Subpart Dc			
	40 CFR 60.40c(c); Subpart Dc	3.8	SO <sub>2</sub> Opacity	Emission Limit / Performance Testing / Monitoring Requirement Exemption
	11 Miss. Admin. Code Pt. 2, R. 1.3.D.(1)(b).	3.9	PM	$E = 0.8808 (I^{-0.1667})$
AA-101a AA-101b AA-102 AA-105 AA-106	11 Miss. Admin. Code Pt. 2, R. 2.2.B.(10).	3.10	Fuel Oil / Diesel Fuel Operational Requirement	48 Hours per Calendar Year (for Each Boiler)
	40 CFR 60.42c(e)(2) and (i); Subpart Dc	3.11	SO <sub>2</sub>	0.50 pounds per MMBTU heat input
AA-101a AA-101b AA-102	40 CFR 60.43c(c) and (d); Subpart Dc	3.12	Opacity	20% (6-minute average)
	40 CFR 60.47c(c); Subpart Dc	3.13	Opacity	0.5 wt.% Sulfur Content (Max. – Distillate Oil) 0.060 pounds SO <sub>2</sub> per MMBTU heat input (Max. – Natural Gas)

Emission Point(s)	Applicable Requirement(s)	Condition Number	Pollutant(s) / Parameter(s)	Limitation(s) / Standard(s)
AA-400a AA-400c through AA-400h AA-400j AA-400k AA-400l AA-500a AA-500b AA-600	40 CFR Part 63, Subpart ZZZZ – National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines 40 CFR 63.6585(f)(3); Subpart ZZZZ	3.14	HAPs	Applicability
AA-401 through AA-406 AA-408 through AA-413	40 CFR Part 60, Subpart IIII – Standards of Performance for Stationary Compression Ignition Combustion Engines 40 CFR 60.4200(2)(i); Subpart IIII	3.15	HAPs	Applicability
	40 CFR 60.4205(b), 60.4202(a)(2), and 60.4206; Subpart IIII	3.16	NMHC + NO <sub>x</sub> CO PM Opacity (Smoke)	Applicable Emission Standards
	40 CFR 60.4207(b); Subpart IIII	3.17	Fuel Requirement	15 ppm Sulfur Content (Max.) 40 Cetane Index (Min.) or 35% Aromatic Content (Max. – by volume)
AA-407 AA-500c AA-500d	40 CFR Part 60, Subpart JJJJ – Standards of Performance for Stationary Spark Ignition Internal Combustion Engines 40 CFR 60.4230(a)(4)(iii) and (iv); Subpart JJJJ	3.18	HAPs	Applicability
	40 CFR 60.4233(e) and 60.4234; Subpart JJJJ – Table 1	3.19	NO <sub>x</sub>	2.0 grams per horsepower-hour (160 ppmvd at 15% O <sub>2</sub> )
			CO	4.0 grams per horsepower-hour (540 ppmvd at 15% O <sub>2</sub> )
			VOCs	1.0 grams per horsepower-hour (86 ppmvd at 15% O <sub>2</sub> )

Emission Point(s)	Applicable Requirement(s)	Condition Number	Pollutant(s) / Parameter(s)	Limitation(s) / Standard(s)
AA-407 AA-500c AA-500d	40 CFR 60.4243(e); Subpart JJJJ	3.20	Fuel Alternative	Propane for 100 Hours per Calendar Year (for Each Engine)
AA-400a  AA-400c through AA-400h  AA-400j AA-400k AA-400l  AA-401 through AA-413  AA-500a through AA-500d  AA-600	40 CFR 63.6640(f)(1), (2), and (4); Subpart ZZZZ  40 CFR 60.4211(f)(1 – 3); Subpart IIII  40 CFR 60.4243(d)(1 – 3); Subpart JJJJ	3.21	Non-Emergency Operation	100 Hours per Calendar Year (for Each Engine)
AA-200c AA-200d AA-200e  AA-400a  AA-400c through AA-400h  AA-400j through AA-400l  AA-407  AA-500a through AA-500d  AA-600  AA-700a AA-700b  AA-800	11 Miss. Admin. Code Pt. 2, R. 1.3.D.(1)(a).	3.22	PM	0.6 pounds per MMBTU heat input

Emission Point(s)	Applicable Requirement(s)	Condition Number	Pollutant(s) / Parameter(s)	Limitation(s) / Standard(s)
AA-900b AA-900d	40 CFR Part 63, Subpart CCCCCC – National Emission Standards for Hazardous Air Pollutants for Source Category: Gasoline Dispensing Facilities  40 CFR 63.11111(a); Subpart CCCCCC	3.23	HAPs	Applicability
	40 CFR 63.11111(b) and (i); Subpart CCCCCC	3.24	Maximum Gasoline Throughput	< 10,000 Gallons per Month (from All Combined Tanks)

- 3.1 Except as otherwise specified or limited herein, the permittee shall not cause, permit, or allow the emission of smoke from a point source into the open air from any manufacturing, industrial, commercial, or waste disposal process which exceeds forty percent (40%) opacity.

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

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

- 3.2 Except as otherwise specified or limited herein, the permittee shall not cause, allow, or permit the discharge into the ambient air from any point source or emissions, any air contaminant of such opacity as to obscure an observer's view to a degree in excess of 40% opacity, equivalent to that provided in Condition 3.1. 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 (Emission Point AA-100), the permittee shall limit sulfur dioxide (SO<sub>2</sub>) emissions to no more than 99.0 tons per year (tpy) for a rolling consecutive 12-month period.

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

- 3.4 For the entire facility (Emission Point AA-100), the permittee shall limit nitrogen oxides (NO<sub>x</sub>) emissions to no more than 99.0 tons per year (tpy) for a rolling consecutive 12-month period.

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



- 3.5 For the entire facility (Emission Point AA-100), the permittee shall limit carbon monoxide (CO) emissions to less than or equal to 99.0 tons per year (tpy) for a rolling consecutive 12-month period.

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

- 3.6 For the entire facility (Emission Point AA-100), except as otherwise specified or limited 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 SO<sub>2</sub>) per million BTU (MMBTU) heat input.

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

- 3.7 Emission Points AA-101a, AA-101b, AA-102, AA-105, AA-106, AA-200a, and AA-200b are subject to and shall comply with applicable requirements found in 40 CFR Part 60, Subpart Dc – Standard of Performance for Small Industrial, Commercial, and Institutional Steam Generating Units.

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

- 3.8 Emission Points AA-101a, AA-101b, AA-102, AA-105, AA-106, AA-200a, and AA-200b, during periods of combustion research (as defined by 40 CFR 60.41c), are not subject to the applicable sulfur dioxide (SO<sub>2</sub>) emission limit, performance testing requirements, or monitoring requirements promulgated by 40 CFR Part 60, Subpart Dc.

Additionally, any temporary change to a boiler for the purpose of conducting combustion research is not considered a modification under 40 CFR 60.14.

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

- 3.9 For Emission Points AA-101a, AA-101b, AA-102, AA-105, AA-106, AA-200a, and AA-200b, the emission of ash and/or particulate matter (PM) from each boiler shall not exceed an emission rate as determined by the following relationship:

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

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).)

- 3.10 For Emission Points AA-101a, AA-101b, AA-102, AA-105, and AA-106, the permittee shall limit the hours of operation of each boiler while utilizing No. 2 fuel oil and/or diesel fuel to no more than a total of forty-eight (48) hours during any calendar year. However,

periods of start-up, natural gas curtailment, or natural gas supply emergencies will not count towards the referenced operational restriction for a boiler.

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

- 3.11 For Emission Points AA-101a, AA-101b, AA-102, AA-105, and AA-106, the permittee shall not discharge into the atmosphere any gases that contain sulfur dioxide (SO<sub>2</sub>) in excess of 0.50 pounds per million BTU (MMBTU) heat input, as determined by the equation promulgated in 40 CFR 60.42c(e)(2).

The referenced SO<sub>2</sub> emission limit shall apply at all times, including periods of start-up, shutdown, and malfunction.

(Ref.: 40 CFR 60.42c(e)(2) and (i); Subpart Dc)

- 3.12 For Emission Points AA-101a, AA-101b, and AA-102, the permittee shall not discharge into the atmosphere any gases that exhibit greater than twenty percent (20%) opacity (on a 6-minute average), except for one 6-minute period per hour of not more than 27 percent opacity.

The referenced opacity standards shall apply at all times, except during periods of start-up, shutdown, or malfunction.

(Ref.: 40 CFR 60.43c(c) and (d); Subpart Dc)

- 3.13 For Emission Points AA-101a, AA-101b, and AA-102, the permittee shall determine compliance with the opacity limit referenced in Condition 3.12 for each boiler by adhering to the following criteria:

- (a) Only burn distillate oil (i.e. No. 2 fuel oil and/or diesel fuel) that contains no more than 0.5 weight percent sulfur;
- (b) Only burn gaseous fuels (i.e. natural gas) with a potential sulfur dioxide (SO<sub>2</sub>) rate of 0.060 pounds per million BTU (MMBTU) heat input or less;
- (c) Not use a post-combustion technology to reduce SO<sub>2</sub> or particulate matter (PM) emissions.

(Ref.: 40 CFR 60.47c(c); Subpart Dc)

- 3.14 Emission Points AA-400a, AA-400c through AA-400h, AA-400j through AA-400l, , AA-500a, AA-500b, and AA-600 are subject to and shall comply with applicable requirements found in 40 CFR Part 63, Subpart ZZZZ – National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines.

(Ref.: 40 CFR 63.6585(f)(3); Subpart ZZZZ)

- 3.15 Emission Points AA-401 through AA-406 and AA-408 through AA-413 are subject to and shall comply with applicable requirements found in 40 CFR Part 60, Subpart III – Standards of Performance for Stationary Compression Ignition Internal Combustion Engines.

By complying with the applicable requirements of Subpart III, the denoted engines are demonstrating compliance with 40 CFR Part 63, Subpart ZZZZ – National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines.

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

- 3.16 For Emission Points AA-401 through AA-406, and AA-408 through AA-413, the permittee shall comply with the emission standards (in grams per kilowatt-hour) in the following table that correspond with each engine:

Rated Power (kW)	Tier	Model Year <sup>1</sup>	NO <sub>x</sub>	HC	NMHC + NO <sub>x</sub>	CO	PM
225 ≤ kW ≤ 450	Tier 3	2006	---	---	4.0	3.5	0.20
450 ≤ kW ≤ 560	Tier 3	2006	---	---	4.0	3.5	0.20
kW > 560	Tier 2	2006	---	---	6.4	3.5	0.20

<sup>1</sup> The model years listed indicate the model years for which the specified tier of standards take effect.

Additionally, the permittee shall not discharge into the atmosphere any smoke exhaust that exceeds the following opacity standards:

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

The permittee shall operate and maintain each engine in such a manner to achieve the referenced emission standards over the entire life of the engine.

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

3.17 For Emission Points AA-401 through AA-406 and AA-408 through AA-413, the permittee shall use diesel fuel that meets the following requirements (on a per-gallon basis):

- (a) A maximum sulfur content of 15 ppm;
- (b) A minimum cetane index of 40 or a maximum aromatic content of 35 volume percent.

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

3.18 Emission Points AA-407, AA-500c, and AA-500d are subject to and shall comply with applicable requirements found in 40 CFR Part 60, Subpart JJJJ – Standards of Performance for Stationary Spark Ignition Internal Combustion Engines.

By complying with the applicable requirements of Subpart JJJJ, the denoted engines are demonstrating compliance with 40 CFR Part 63, Subpart ZZZZ – National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines

(Ref.: 40 CFR 60.4230(a)(4)(iii) and (iv); Subpart JJJJ)

3.19 For Emission Points AA-407, AA-500c, and AA-500d, the permittee shall comply and not discharge into the atmosphere any gases that contain the following pollutants in excess of the corresponding emission standards:

- (a) Nitrogen Oxides (NO<sub>x</sub>): 2.0 grams per horsepower-hour (160 ppm<sub>vd</sub> at 15% O<sub>2</sub>);
- (b) Carbon Monoxide (CO): 4.0 grams per horsepower-hour (540 ppm<sub>vd</sub> at 15% O<sub>2</sub>);
- (c) Volatile Organic Compounds (VOCs): 1.0 grams per horsepower-hour (86 ppm<sub>vd</sub> at 15% O<sub>2</sub>).

The permittee shall operate and maintain each engine in such a manner to achieve the referenced emission standards over the entire life of the engine.

(Ref.: 40 CFR 60.4233(e), and 40 CFR 60.4234; Subpart JJJJ)

3.20 For Emission Points AA-407, AA-500c, and AA-500d, solely during emergency operations, the permittee may operate each engine using propane as an alternative fuel for a respective maximum of one hundred (100) hours per calendar year.

(Ref.: 40 CFR 60.4243(e); Subpart JJJJ)

3.21 For Emission Points AA-400a, AA-400c through AA-400h, AA-400j through AA-400l, AA-401 through AA-413, AA-500a through AA-500d, and AA-600, any operation of a denoted engine for other than emergency operation, maintenance and testing, emergency demand response, and operation in non-emergency situations for fifty (50) hours per year is prohibited. If an engine is not operated in accordance to Parts (a) through (c) below, the engine will not be considered an emergency engine under the referenced regulation and shall meet all requirements for a corresponding non-emergency engine. As such, the permittee shall operate each engine according to the following provisions:

- (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 is 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 and 40 CFR 60.4243(d)(1–3); Subpart JJJJ)

3.22 For Emission Points AA-200c through AA-200e, AA-400a, AA-400c through AA-400h, AA-400j through AA-400l, AA-407, AA-500a through AA-500d, AA-600, AA-700a, AA-700b, and AA-800, the emission of ash and/or particulate matter (PM) from each process unit or individual source within a particular grouping shall not exceed 0.6 pounds per MMBTU per hour heat input.

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

3.23 Emission Points AA-900b and AA-900d are subject to and shall comply with applicable requirements found in 40 CFR 63, Subpart CCCCCC – National Emission Standards for Hazardous Air Pollutants for Source Category: Gasoline Dispensing Facilities.

(Ref.: 40 CFR 63.11111(a); Subpart CCCCCC)

- 3.24 For Emission Points AA-900b and AA-900d, the permittee shall limit the maximum gasoline throughput from the combined storage tanks to less than 10,000 gallons per month.

(Ref.: 40 CFR 63.11111(b) and (i); Subpart CCCCCC)

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## SECTION 4 WORK PRACTICES

Emission Point(s)	Applicable Requirement(s)	Condition Number	Pollutant(s) / Parameter(s)	Work Practice(s)
AA-401 through AA-406  AA-408 through AA-413	40 CFR 60.4211(a); Subpart IIII	4.1	NMHC + NO <sub>x</sub>	Compliance Practices
			CO	
			PM	
			Opacity (Smoke)	
AA-900b AA-900d	40 CFR 63.11116(a); Subpart CCCCCC	4.2	HAPs	Minimization of Vapor Releases
	40 CFR 63.11115(a); Subpart CCCCCC	4.3	HAPs	Best Management Practices

4.1 For Emission Points AA-401 through AA-406 and AA-408 through AA-413, the permittee shall adhere to the following practices to maintain compliance with the applicable emission standards referenced in Condition 3.16:

- (a) Operate and maintain each 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;
- (c) Meet the requirements as specified in Condition 3.15.

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

4.2 For Emission Points AA-900b and AA-900d, the permittee shall not allow gasoline to be handled in a manner that would result in vapor releases to the atmosphere for extended periods of time. Measures to be taken include, but are not limited to, the following practices:

- (a) Minimize gasoline spills;
- (b) Clean up spills as expeditiously as practicable;
- (c) Cover all open gasoline containers and all gasoline storage tank fill-pipes with a gasketed seal when not in use;

- (d) Minimize gasoline sent to open waste collection systems that collect and transport gasoline to reclamation and recycling devices, such as oil/water separators.

(Ref.: 40 CFR 63.11116(a); Subpart CCCCCC)

- 4.3 For Emission Points AA-900b and AA-900d, the permittee must operate and maintain a storage tank, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions at all times. Determination of whether such operation and maintenance procedures are being used will be based on information available to the MDEQ which may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the storage tank.

(Ref.: 40 CFR 63.11115(a); Subpart CCCCCC)



### SECTION 5 MONITORING AND RECORDKEEPING REQUIREMENTS

Emission Point(s)	Applicable Requirement(s)	Condition Number	Pollutant(s) / Parameter(s)	Monitoring / Recordkeeping Requirement(s)
AA-100	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	NO <sub>x</sub>	Monitor and Maintain Emissions Data
		5.3	CO	
AA-101a AA-101b AA-102	40 CFR 60.42c(h)(1), 60.44c(h), and 60.46c(e); Subpart Dc	5.4	SO <sub>2</sub>	Maintain Fuel Certification Records
AA-105 AA-106	40 CFR 60.48c(g)(2); Subpart Dc	5.5		Record Monthly Consumption of Each Fuel Combusted
AA-101a AA-101b AA-102	40 CFR 60.47c(a); Subpart Dc 11 Miss. Admin. Code Pt. 2, R. 2.2.B.(11).	5.6	Opacity	Conduct EPA Initial Method 9 Evaluation
	40 CFR 60.47c(a)(1-3); Subpart Dc 11 Miss. Admin. Code Pt. 2, R. 2.2.B.(11).	5.7		Conduct Subsequent Visual Emission Evaluations
	40 CFR 60.48c(c); Subpart Dc	5.8		Maintain Records from Visual Emissions Monitoring
AA-400a AA-400c through AA-400h AA-400j AA-400k AA-400l AA-500a AA-500b AA-600	40 CFR 63.6655(f)(2); Subpart ZZZZ 11 Miss. Admin. Code Pt. 2, R. 2.2.B.(11).	5.9	HAPs	Record Hours of Operation (Emergency and Non-Emergency)

Emission Point(s)	Applicable Requirement(s)	Condition Number	Pollutant(s) / Parameter(s)	Monitoring / Recordkeeping Requirement(s)
AA-401 through AA-406  AA-408 through AA-413	40 CFR 60.4214(b); Subpart III  11 Miss. Admin. Code Pt. 2, R. 2.2.B.(11).	5.10	HAPs	Record Hours of Operation (Emergency and Non-Emergency)
	40 CFR 60.4211(g)(2-3); Subpart III	5.11	Manufacturer Specifications	Compliance Demonstration Actions
	40 CFR 60.4211(c); Subpart III  11 Miss. Admin. Code Pt. 2, R. 2.2.B.(11).	5.12	NMHC + NO <sub>x</sub>  CO  PM	Engine Certification
	11 Miss. Admin. Code Pt. 2, R. 2.2.B.(11).	5.13	Opacity (Smoke)	Fuel Certification
AA-407 AA-500c AA-500d	40 CFR 60.4245(b); Subpart JJJJ  11 Miss. Admin. Code Pt. 2, R. 2.2.B.(11).	5.14	HAPs	Record Hours of Operation (Emergency and Non-Emergency)
	40 CFR 60.4243(a)(1-2), (b)(1), and 40 CFR 60.4244; Subpart JJJJ	5.15	Manufacturer Specifications	Follow Compliance Demonstration Actions
	40 CFR 60.4243(e); Subpart JJJJ  11 Miss. Admin. Code Pt. 2, R. 2.2.B.(11).	5.16	Alternative Fuel Usage	Record Hours of Operation
AA-900b AA-900d	40 CFR 63.11111(e) and 63.11125(d); Subpart CCCCCC	5.17	HAPs	Record Monthly Cumulative Throughput and Each Malfunction

- 5.1 Except as otherwise specified or limited herein, 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 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 the entire facility (Emission Point AA-100), the permittee shall demonstrate compliance with the nitrogen oxides (NO<sub>x</sub>) emission limit referenced in Condition 3.4 by monitoring cumulative NO<sub>x</sub> emissions on a rolling consecutive 12-month period. Additionally, the permittee shall maintain monthly records that detail NO<sub>x</sub> emissions (in rolling tons per year) and include all reference data utilized to validate the calculated emissions (applicable emission factors, engineering judgement determinations, etc.).

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

- 5.3 For the entire facility (Emission Point AA-100), the permittee shall demonstrate compliance with the carbon monoxide (CO) emission limit referenced in Condition 3.5 by monitoring cumulative CO emissions on a rolling consecutive 12-month period. Additionally, the permittee shall maintain monthly records that detail CO emissions (in rolling tons per year) and include all reference data utilized to validate the calculated emissions (applicable emission factors, engineering judgement determinations, etc.).

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

- 5.4 For Emission Points AA-101a, AA-101b, AA-102, AA-105, and AA-106, the permittee shall demonstrate compliance with the sulfur dioxide (SO<sub>2</sub>) emission limit referenced in Condition 3.11 by maintaining certification records from any fuel oil supplier to display the sulfur content and the information required by Condition 6.6(a).

Additionally, the permittee shall request and maintain a certification record(s) from any gaseous fuel supplier(s) that displays the sulfur content, the potential SO<sub>2</sub> emission rate, and the information required by Condition 6.6(b). Only an initial certification record must be obtained from a supplier of any utilized gaseous fuel upon issuance of this permit.

The maintained certification(s) may also serve as an approved substitute for the required performance testing guidelines promulgated in 40 CFR 60.44c(a), (b), (c), and (e). Additionally, the monitoring requirements specified in 40 CFR 60.46c(a) through (d) shall not apply to the permittee if compliance with the referenced SO<sub>2</sub> emission limit is demonstrated through the outlined fuel supplier certification(s).

(Ref.: 40 CFR 60.42c(h)(1) and (4), 40 CFR 60.44c(h), 40 CFR 60.46c(e); Subpart Dc)  
(Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.2.B.(11).)

- 5.5 For Emission Points AA-101a, AA-101b, AA-102, AA-105, and AA-106, the permittee shall record and maintain records detailing the quantity of each fuel combusted monthly.

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

- 5.6 For Emission Points AA-101a, AA-101b, and AA-102, following the issuance of this permit, the permittee shall conduct an initial performance test using Method 9 of Appendix A-4 of 40 CFR Part 60 (i.e. "Method 9") and procedures in 40 CFR 60.11 (i.e. "the procedures") to demonstrate compliance with the opacity limit referenced in Condition 3.12. This performance test shall be initiated at the first instance that a boiler operates while combusting an oil-derived fuel source (i.e. diesel fuel and/or No. 2 fuel oil) for a purpose not directly related to maintenance checks and readiness testing.

As it applies to this condition, the observation period for the Method 9 performance test may be reduced from three (3) hours to 60 minutes if all 6-minute averages are less than 10% and all individual 15-second observations are less than or equal to 20% during the initial 60 minutes of observation. However, the permittee shall maintain records that indicate the observation period reduction was applied.

(Ref.: 40 CFR 60.47c(a); Subpart Dc and 11 Miss. Admin. Code Pt. 2, R. 2.2.B.(11).)

- 5.7 For Emission Points AA-101a, AA-101b, and AA-102, when a boiler operates while combusting an oil-derived fuel source (i.e. diesel fuel and/or No. 2 fuel oil) for a purpose not directly related to maintenance checks and readiness testing, the permittee shall conduct subsequent performance tests using Method 9 of Appendix A-4 of 40 CFR Part 60 (i.e. "Method 9"), the procedures in 40 CFR 60.11 (i.e. "the procedures"), and in accordance to one of the following options:

- (a) The permittee shall conduct subsequent performance tests using Method 9 and the procedures outlined hereafter:
  - (1) If no visible emissions are observed during the most recent Method 9 performance test, a subsequent performance test shall be completed within twelve (12) calendar months from the date of the most recent performance test;
  - (2) If visible emissions are observed but the maximum 6-minute average opacity is less than or equal to five percent (5%) during the most recent Method 9 performance test, a subsequent performance test shall be completed within six (6) calendar months from the date of the most recent performance test;
  - (3) If the maximum 6-minute average opacity is greater than 5% but less than or equal to ten percent (10%) during the most recent Method 9 performance test, a subsequent performance test shall be completed within three (3) calendar months from the date that the most recent performance test was conducted; or

- (4) If the maximum 6-minute average opacity is greater than 10%, a subsequent performance test shall be completed within forty-five (45) calendar days from the date that the most recent performance test was conducted.
- (b) If the maximum 6-minute average opacity is less than 10% during the most recent Method 9 performance test, the permittee may elect to perform subsequent monitoring using Method 22 of Appendix A-7 of 40 CFR Part 60 (i.e. "Method 22") according to the following provisions:
  - (1) The permittee shall conduct 10-minute observations (during normal operation) each operating day that a boiler combusts diesel fuel and/or No. 2 fuel oil and demonstrate that the sum of the occurrences of any visible emissions is not in excess of 5% of the observation period (i.e. 30 seconds per 10-minute period). If the sum of the occurrence of any visible emissions is greater than 30 seconds during the initial 10-minute observation, immediately conduct a 30-minute observation. If the sum of the occurrence of visible emissions is greater than 5% of the observation period (i.e. 90 seconds per 30-minute period), the permittee shall either document and adjust the operation of the boiler and demonstrate within twenty-four (24) hours that the sum of the occurrence of visible emissions is equal to or less than 5% during a 30-minute observation (i.e. 90 seconds) or conduct a new Method 9 performance test;
  - (2) If no visible emissions are observed for 10 operating days during which the opacity limit referenced in Condition 3.12 is applicable, observations can be reduced to once every seven (7) operating days during which the mentioned opacity limit is applicable. If any visible emissions are observed, daily observations shall be resumed.
- (c) If the maximum 6-minute opacity is less than 10% during the most recent Method 9 part performance test, the permittee may elect to perform subsequent monitoring using a digital opacity compliance system according to a site-specific monitoring plan approved by the MDEQ.

As it applies to this condition, the observation period for Method 9 performance tests may be reduced from three (3) hours to sixty (60) minutes if all 6-minute averages are less than 10% and all individual 15-second observations are less than or equal to twenty percent (20%) during the initial 60 minutes of observation. However, the permittee shall maintain records that indicate every occasion when the outlined observation period reduction is applied.

These requirements do not apply during those times when a boiler is operated strictly for maintenance checks and readiness testing. Additionally, these requirements do not apply during periods of start-up, shutdown, or malfunction.

(Ref.: 40 CFR 60.47c(a); Subpart Dc and 11 Miss. Admin. Code Pt. 2, R. 2.2.B.(11).)

- 5.8 For Emission Points AA-101a, AA-101b, and AA-102, the permittee shall maintain records that adhere to the following guidelines:
- (a) For each performance test conducted using Method 9 of Appendix A-4 of 40 CFR Part 60, the permittee shall keep the following information:
    - (1) Dates and time intervals of all opacity observation periods;
    - (2) Name, affiliation, and copy of current visible emission reading certification for each visible emission observer participating in the performance test;
    - (3) Copies of all visible emission observer opacity field data sheets.
  - (b) For each performance test conducting using Method 22 of Appendix A-7 of 40 CFR Part 60, the permittee shall keep the following information:
    - (1) Dates and time intervals of all opacity observation periods;
    - (2) Name and affiliation for each visible emission observer participating in the performance test;
    - (3) Copies of all visible emission observer opacity field data sheets;
    - (4) Documentation of any adjustments made and the time the adjustments were completed to the boiler's operation by the permittee to demonstrate compliance with the applicable monitoring requirements referenced in Condition 5.4.

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

- 5.9 For Emission Points AA-400a, AA-400c through AA-400h, and AA-400j through AA-400l, AA-500a, AA-500b, and AA-600, the permittee shall monitor and record (through a non-resettable hour meter) the hours of operation for the engine during respective occasions of emergency and non-emergency service monthly. The permittee shall also document what classified each operational occasion as 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).)

- 5.10 For Emission Points AA-401 through AA-406 and AA-408 through AA-413, the permittee shall monitor and record (through a non-resettable hour meter) the hours of operation for the engine during respective occasions of emergency and non-emergency service monthly. The permittee shall also document what classified each operational occasion as an emergency or a non-emergency.

(Ref.: 40 CFR 60.4214(b); Subpart IIII and 11 Miss. Admin. Code Pt. 2, R. 2.2.B.(11).)

- 5.11 For Emission Points AA-401 through AA-406, and AA-408 and AA-413, if the permittee does not operate and maintain each engine according to the manufacturer's emission-related written instructions, or the permittee changes emission-related settings in a way that is not permitted by the manufacturer, the permittee shall demonstrate compliance through the following actions:
- (a) Keep a maintenance plan and records of conducted maintenance and must, to the extent practicable, maintain and operate the engine in a manner consistent with good air pollution control practice for minimizing emissions;
  - (b) Conduct an initial performance test to demonstrate compliance with the applicable emission standards within one (1) year of start-up, or within 1 year after an engine is no longer installed, configured, operated, and maintained in accordance with the manufacturer's emission-related written instructions, or within 1 year after the permittee changes emission-related settings in a way that is not permitted by the manufacturer;
  - (c) For Emission Points AA-401 through AA-403, AA-405, AA-406, and AA-408 through AA-413, the permittee shall conduct a subsequent performance test every 8,760 hours of operation or three (3) years (whichever comes first) thereafter to demonstrate compliance with the applicable emission standards.

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

- 5.12 For Emission Points AA-401 through AA-406 and AA-408 through AA-413, the permittee shall maintain documentation that each engine is certified to the applicable emission standards referenced in Condition 3.15. Additionally, the permittee shall maintain records that denote an engine was installed and configured to the manufacturer's emission-related specifications.

(Ref.: 40 CFR 60.4211(c); Subpart IIII and 11 Miss. Admin. Code Pt. 2, R. 2.2.B.(11).)

- 5.13 For Emission Points AA-401 through AA-406 and AA-408 and AA-413, the permittee shall maintain records that demonstrate each engine only uses diesel fuel on a continuous basis that complies with the requirements referenced in Condition 3.16.

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

- 5.14 For Emission Points AA-407, AA-500c, and AA-500d, the permittee shall monitor and record (through a non-resettable hour meter) the hours of operation for the engine during respective occasions of emergency and non-emergency service monthly. The permittee shall also document what classified each operational occasion as an emergency or a non-emergency.

(Ref.: 40 CFR 60.4245(b); Subpart JJJJ and 11 Miss. Admin. Code Pt. 2, R. 2.2.B.(11).)

- 5.15 For Emission Points AA-407, AA-500c, and AA-500d, the permittee shall demonstrate compliance with the following provisions:
- (a) Confirm the purchase of a spark-ignition internal combustion engine certified to the emission standards referenced in Condition 3.18 and maintain such documentation;
  - (b) If the permittee operates and maintains an engine according to the manufacturer's emission-related written instructions, the permittee must keep records of conducted maintenance to demonstrate compliance, but no performance testing is required. The permittee must also meet the requirements as specified in 40 CFR Part 1068, Subparts A through D (as they apply). If the permittee adjusts engine settings according to and consistent with the manufacturer's instructions, the engine will not be considered out of compliance.
  - (c) If the permittee does not operate and maintain an engine according to the manufacturer's emission-related written instructions, the engine will be considered a non-certified engine. As such, the permittee must keep a maintenance plan and records of conducted maintenance and must, to the extent practicable, maintain and operate the engine in a manner consistent with good air pollution control practice for minimizing emissions. Additionally, the permittee must demonstrate compliance through performance testing (contingent on the rated power):
    - (1) For Emission Points AA-500c and AA-500d, the permittee must conduct an initial performance test within one (1) year of engine start-up to demonstrate compliance;
    - (2) For Emission Point AA-407, the permittee must conduct an initial performance test within 1 year of engine start-up and conduct subsequent performance testing every 8,760 hours or three (3) years (whichever comes first) thereafter to determine compliance.
    - (3) Any required performance test must be conducted in accordance with the procedures outlined in 40 CFR 60.4244(a) through (g).

(Ref.: 40 CFR 60.4243 (a)(1-2), (b)(1) and 40 CFR 60.4244; Subpart JJJJ)

- 5.16 For Emission Points AA-407, AA-500c, and AA-500d, the permittee shall maintain records that indicate the number of hours spent operating each engine with propane as a fuel source. Additionally, the permittee shall document what circumstance(s) prompted the use of propane as a fuel source (in lieu of natural gas) and what classified the particular operation as an emergency.



(Ref.: 40 CFR 60.4243(e); Subpart JJJJ and 11 Miss. Admin. Code Pt. 2, R. 2.2.B.(11).)

5.17 For Emission Points AA-900b and AA-900d, the permittee shall record and maintain the following information:

- (a) The monthly cumulative throughput of gasoline from the combined storage tanks;
- (b) The occurrence and duration of each malfunction of all applicable equipment, which includes (but is not limited to) process equipment, air pollution control equipment, and monitoring equipment;
- (c) The action(s) taken during each period of malfunction to minimize emissions in accordance with Condition 4.3, including any corrective action(s) taken to restore malfunctioning applicable equipment (including but not limited to process equipment, air pollution control equipment, and monitoring equipment) to its normal or usual manner of operation.

(Ref.: 40 CFR 63.11111(e) and 40 CFR 63.11125(d); Subpart CCCCCC)

## SECTION 6

### REPORTING REQUIREMENTS

Emission Point(s)	Applicable Requirement(s)	Condition Number	Reporting Requirement(s)
AA-100	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	Submitted Documents Certified by a Responsible Official
		6.4	Submit Annual Summary of NO <sub>x</sub> Emissions
		6.5	Submit Annual Summary of CO Emissions
AA-101a AA-101b AA-102 AA-105 AA-106	40 CFR 60.48c(e)(11) and 40 CFR 60.48c(f)(1), (4); Subpart Dc	6.6	Submit All Applicable Fuel Supplier Certifications
	11 Miss. Admin. Code Pt. 2, R. 2.2.B.(11).	6.7	Submit Fuel Usage Data
AA-101a AA-101b AA-102	40 CFR 60.48c(c); Subpart Dc 11 Miss. Admin. Code Pt. 2, R. 2.2.B.(11).	6.8	Submit Excess Emissions Reports
AA-400a AA-400c through AA-400h  AA-400j AA-400k AA-400l  AA-500a AA-500b  AA-600	11 Miss. Admin. Code Pt. 2, R. 2.2.B.(11).	6.9	Submit Annual Compliance Certification
AA-401 through AA-413  AA-500c AA-500d	11 Miss. Admin. Code Pt. 2, R. 2.2.B.(11).	6.10	Submit Hours of Operation (Non-Emergency and Emergency)

Emission Point(s)	Applicable Requirement(s)	Condition Number	Reporting Requirement(s)
AA-900b AA-900d	11 Miss. Admin. Code Pt. 2, R. 2.2.B.(11).	6.11	Submit Monthly Gasoline Throughput
		6.12	Submit Reports of Equipment Malfunction

- 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 January 31<sup>st</sup> of each calendar year for the preceding calendar year. This report shall address any required monitoring specified in the permit. All instances of deviations from permit requirements shall 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 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 Point AA-100, the permittee shall submit an annual report summarizing nitrogen oxides (NO<sub>x</sub>) emissions on a rolling consecutive 12-month basis by no later than January 31<sup>st</sup> of each calendar year for the preceding calendar year. The report shall include all reference data utilized to validate the presented NO<sub>x</sub> emissions (applicable emission factors, engineering judgement determinations, etc.).

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

- 6.5 For Emission Point AA-100, the permittee shall submit an annual report summarizing carbon monoxide (CO) emissions on a rolling consecutive 12-month basis by no later than January 31<sup>st</sup> of each calendar year for the preceding calendar year. The report shall include all reference data utilized to validate the presented NO<sub>x</sub> emissions (applicable emission factors, engineering judgement determinations, etc.).

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

- 6.6 For Emission Points AA-101a, AA-101b, AA-102, AA-105, and AA-106, the permittee shall submit an annual report detailing any fuel supplier certifications required by Condition 5.4 by no later than January 31<sup>st</sup> of each calendar year for the preceding calendar year. The report shall include a certified statement signed by a responsible official verifying that the submitted records represent all of the fuel combusted during the report period. Additionally, a fuel supplier certification shall specifically contain the following information (contingent on the fuel source):
- (a) For Distillate Oil (i.e. No. 2 fuel oil and/or diesel fuel):
    - (1) The name of the oil supplier;
    - (2) A statement from the supplier that the utilized oil complies with the specifications under the definition of “*distillate oil*” contained within 40 CFR 60.41c; and
    - (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 million Btu (lbs. per MMBTU) heat input; and
    - (3) The method used to determine the potential sulfur emissions rate of the fuel.

In accordance with Condition 5.4, the permittee may derive the information required in Part (b) of this condition from the same initial certification record(s) annually.

(Ref.: 40 CFR 60.48c(e)(11) and 40 CFR 60.48c(f)(1 – 4); Subpart Dc)  
(Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.2.B.(11).)

- 6.7 For Emission Points AA-101a, AA-101b, AA-102, AA-105, and AA-106, the permittee shall submit an annual report that summarizes the amount of each fuel combusted by each boiler monthly by January 31<sup>st</sup> of each calendar year for the preceding calendar year.

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

- 6.8 For Emission Points AA-101a, AA-101b, and AA-102, the permittee shall submit an annual report that summarizes all instances of deviation from the opacity limitation referenced in Condition 3.12 (i.e. excess emissions) by January 31<sup>st</sup> of each calendar year

for the preceding calendar year. The report shall include an explanation detailing the cause of any excess emissions and any corrective action(s) taken to return a boiler to a compliant status.

(Ref: 40 CFR 60.48c(c); Subpart Dc and 11 Miss. Admin. Code Pt. 2, R. 2.2.B.(11).)

- 6.9 For Emission Points AA-400a, AA-400c through AA-400h, AA-400j through AA-400l, AA-500a, AA-500b, and AA-600, the permittee shall submit an annual certification that acknowledges if each engine was operated in accordance with the requirements specified in Condition 3.21 no later than January 31<sup>st</sup> of each calendar year for the preceding calendar year.

If the annual certification denotes non-compliance with a referenced requirement, the permittee shall include an additional report that details the number of excursions experienced within the calendar year, the duration of each excursion experienced, and the reason for each excursion experienced.

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

- 6.10 For Emission Points AA-401 through AA-413, AA-500c, and AA-500d, the permittee shall submit an annual report that summarizes the hours of operation for each engine by January 31<sup>st</sup> of each calendar year for the preceding calendar year. The report shall document how many hours are spent for emergency operation, what classified the operation as an emergency situation(s), how many hours are spent for non-emergency operation, and the circumstance(s) for non-emergency operation.

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

- 6.11 For Emission Points AA-900b and AA-900d, the permittee shall submit an annual report that summarizes the combined monthly throughput of gasoline from the combined storage tanks by January 31<sup>st</sup> of each calendar year for the preceding calendar year.

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

- 6.12 For Emission Points AA-900b and AA-900d, the permittee shall submit an annual report that details the occurrence of any malfunction of applicable equipment (including but not limited to process equipment, air pollution control equipment, and monitoring equipment) at a storage tank by January 31<sup>st</sup> of each calendar year for the preceding calendar year. The report shall also outline any corrective action(s) taken to restore the malfunctioning applicable equipment to its normal or usual manner of operation.

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