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

Krystal Rudolph

AUTHORIZED SIGNATURE
MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY

Issued: July 8, 2020 **Permit No.: 1080-00102**

Effective Date: As Specified Herein

Modified: July 1, 2021

Expires: June 30, 2025

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 Mississippi Administrative Code, Title 11, Part 2, Chapter 2, Rule 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 MDEQ 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

(1) The source is approved to use under any permit issued under 40 CFR 52.21 or under regulations approved pursuant to 40 CFR Part 51 – Subpart I, or 40 CFR 51.166;

(e) An increase in the hours of operation or in the production rate unless such change would be prohibited under any federally enforceable permit condition which was established after January 6, 1975, pursuant to 40 CFR 52.21 or under regulations approved pursuant to 40 CFR Part 51 – Subpart I or 40 CFR 51.166; or

(f) Any change in ownership of the stationary source.

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

B. GENERAL OPERATIONAL CONDITIONS

1. Should the Executive Director of the MDEQ 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 – "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 – 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 (as defined in 11 Miss. Admin. Code Pt. 2, R. 1.2.)

(1) For an upset, 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 in 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 Mississippi Administrative Code, Title 11, Part 2, Rule 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 (as applicable):

(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 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 the air emissions equipment as described in the following table:

EMISSION POINT	DESCRIPTION
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 (62.657 MMBTU / Hour – located in the Boiler Room – commenced operation in 2010)
AA-105	10.5 MMBTU / Hour Natural Gas / Fuel Oil-Fired Boiler (located at the Transitional Research Building – manufactured in 2017)
AA-106	10.5 MMBTU / Hour Natural Gas / Fuel Oil-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)

EMISSION POINT	DESCRIPTION
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 (1,500 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 (805 HP – located behind Parking Lot No. 9, behind Boiler Room No. 2 – 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 – located in LP Building Parking Lot – manufactured in 2016)
AA-408	1,910 HP Diesel-Fired Back-Up Emergency Generator Engine (13.37 MMBTU / Hour – located in Translational Research Center Parking Lot – 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 (82 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-One (31) Facility-Wide Natural Gas-Fired Heating Components (Total Heat Input: 31.02 MMBTU / Hour – construction commenced at the earliest after 1977)
AA-700b	Five (5) Natural Gas-Fired Water Heater Boilers (Tank Capacity: 225 Gallons Each – Total Heat Input: 4.25 MMBTU / Hour – located in the Children's Hospital Expansion – construction commenced in 2019)
AA-800	Eighteen (18) Facility-Wide Natural Gas-Fired Air Make-Up Burner Units (Total Heat Input: 5.35 MMBTU / Hour – construction commenced 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 (located in Motor Pool Building)
AA-900c	500-Gallon Fixed-Roof Used Oil Aboveground Storage Tank
AA-900d	12,000-Gallon Fixed-Roof Unleaded Gasoline Aboveground Storage Tank (located in Motor Pool Building)
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
AA-932	12,000-Gallon Fixed-Roof Aviation Fuel Aboveground 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_2	99.0 tpy (Rolling 12-Month Total)
			NO_X	99.0 tpy (Rolling 12-Month Total)
			CO	99.0 tpy (Rolling 12-Month Total)
AA-101a AA-101b AA-102 AA-105 AA-106 AA-200a through AA-200e AA-700a AA-700b	11 Miss. Admin. Code Pt. 2, R. 1.4.A.(1).	3.4	SO_2	4.8 Pounds / 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 40 CFR 60.40c(a); Subpart Dc	3.5	SO_2	Applicability
	11 Miss. Admin. Code Pt. 2, R. 1.3.D.(1)(b).	3.7	PM	$E = 0.8808\ (I^{-0.1667})$
AA-101a AA-101b AA-102 AA-105 AA-106	40 CFR 60.40c(c); Subpart Dc	3.6	SO_2 PM	Emission Limit / Performance Testing / Monitoring Exemption
	11 Miss. Admin. Code Pt. 2, R. 2.2.B.(10). 40 CFR 63.11237 – "*Gas-fired boiler*"	3.8	Fuel Oil Usage	Limit to No More Than 48 Hours Per Calendar Year (for Each Boiler)
	40 CFR 60.42c(d) and (i); Subpart Dc	3.9	SO_2	0.5 wt.% Sulfur Content in Fuel Oil

Emission Point(s)	Applicable Requirement(s)	Condition Number	Pollutant(s) / Parameter(s)	Limitation(s) / Standard(s)
AA-101a AA-101b AA-102	40 CFR 60.43c(c) and (d); Subpart Dc	3.10	PM Opacity	20% (6-minute average)
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).	3.11	PM	0.6 Pounds / MMBTU Heat Input
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	3.12	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 40 CFR 63.6590(c)(1); Subpart ZZZZ	3.13	$NMHC + NO_X$ CO PM Opacity (Smoke)	Applicability
	40 CFR 60.4205(b), 60.4202(a)(2), and 60.4206; Subpart IIII	3.14	Emission Standards	Applicability

Emission Point(s)	Applicable Requirement(s)	Condition Number	Pollutant(s) / Parameter(s)	Limitation(s) / Standard(s)
AA-401 through AA-406 AA-408 through AA-413	40 CFR 60.4207(b); Subpart IIII	3.15	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 40 CFR 63.6590(c)(1); Subpart ZZZZ	3.16	NO_X CO VOCs	Applicability
	40 CFR 60.4233(e) and 60.4234; Subpart JJJJ – Table 1	3.17	NO_X	2.0 Grams / Horsepower-Hour (160 ppmvd at 15% O_2)
			CO	4.0 Grams / Horsepower-Hour (540 ppmvd at 15% O_2)
			VOCs	1.0 Grams / Horsepower-Hour (86 ppmvd at 15% O_2)
	40 CFR 60.4243(e); Subpart JJJJ	3.18	Propane Gas Usage	100 Hours / 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	3.19	Non-Emergency Operation	100 Hours / Calendar Year (for Each Engine)

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), (b), and (i); Subpart CCCCCC	3.20	HAPs	Applicability

3.1 For Emission Point AA-100 [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 that exceeds forty percent (40%) opacity from any process on-site.

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-100 [Facility-Wide], unless otherwise specified herein, the permittee shall not discharge into the ambient atmosphere (from any point source) any air contaminant of such opacity as to obscure an observer's view to a degree in excess of forty percent (40%) opacity. 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-100 [Facility-Wide], the permittee shall limit the total respective emission of sulfur dioxide (SO_2), nitrogen oxides (NO_X), and carbon monoxide (CO) 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).)

3.4 Emission Points AA-101a, AA-101b, AA-102, AA-105, AA-106, and AA-200a through AA-200e, and AA-700b [Facility-Wide Boilers], except as otherwise specified or limited herein, the maximum discharge of sulfur oxides (SO_X) shall not exceed 4.8 pounds (measured as sulfur dioxide or SO_2) per million BTU (MMBTU) heat input.

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

3.5 Emission Points AA-101a, AA-101b, AA-102, AA-105, AA-106, AA-200a, and AA-200b [Boilers with Heat Input Capacity ≥ 10 MMBTU / Hour] 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)

3.6 For Emission Points AA-101a, AA-101b, AA-102, AA-105, AA-106, AA-200a, and AA-200b [Fuel-Burning Equipment with Heat Input Capacity ≥ 10 MMBTU / Hour], the maximum permissible emission of ash and/or particulate matter (PM) from a boiler shall not exceed a 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).)

3.7 For Emission Points AA-101a, AA-101b, AA-102, AA-105, and AA-106 [Dual Fuel-Fired Boilers], the permittee is not subject to any applicable sulfur dioxide (SO_2) emission limitation, particulate matter (PM) limitation, opacity limitation, performance testing requirement, or monitoring requirement promulgated by 40 CFR Part 60, Subpart Dc during periods of combustion research as defined by 40 CFR 60.41c – "*Combustion research*"; Subpart Dc.

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

(Ref.: 40 CFR 60.40c(c), (d) and 40 CFR 60.41c – "*Combustion research*"; Subpart Dc)

3.8 For Emission Points AA-101a, AA-101b, AA-102, AA-105, and AA-106 [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 the referenced fuel usage restrictions for a boiler.

In the event that the permittee fails to adhere to the referenced fuel usage restrictions for a boiler, the permittee shall be subject to and shall immediately comply with applicable requirements for an "*oil-fired boiler*" found in 40 CFR Part 63, Subpart JJJJJJ – National Emission Standards for Hazardous Air Pollutants 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 JJJJJJ – "*Gas-fired boiler*")

3.9 For Emission Points AA-101a, AA-101b, AA-102, AA-105, and AA-106 [Dual Fuel-Fired Boilers], the permittee shall not combust fuel oil that contains more than 0.5 weight percent (wt.%) sulfur content to limit the emission of sulfur dioxide (SO_2).

The referenced SO_2 emission limitations shall apply at all times, including periods of start-up, shutdown, and malfunction.

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

3.10 For Emission Points AA-101a, AA-101b, AA-102, AA-105, and AA-106 [Dual Fuel-Fired Boilers], 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 (1) 6-minute period per hour of no more than twenty-seven percent (27%) opacity when a boiler combusts fuel oil.

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

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

3.11 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-800b [Fuel Burning Equipment with Heat Input Capacity < 10 MMBTU / Hour], the maximum permissible emission of ash and/or particulate matter (PM) shall not exceed 0.6 pounds per million BTU (MMBTU) per hour heat input.

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

3.12 Emission Points AA-400a, AA-400c through AA-400h, AA-400j through AA-400l, AA-500a, AA-500b, and AA-600 [Emergency Engines Constructed Before April 2006] are subject to and shall comply with the 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)

3.13 Emission Points AA-401 through AA-406 and AA-408 through AA-413 [Diesel-Fired Emergency Engines Constructed After April 2006] are 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.

By complying with the applicable requirements of Subpart IIII, 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 and 40 CFR 63.6590(c)(1); Subpart ZZZZ)

3.14 For Emission Points AA-401 through AA-406 and AA-408 through AA-413 [Diesel-Fired Emergency Engines Constructed After April 2006], the permittee shall comply with the

corresponding emission standards (in grams per kilowatt-hour) for each engine found in the following table:

Rated Power (kW)	Tier	Model Year[1]	NO_X	HC	NMHC + NO_X	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

[1] 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) Twenty percent (20%) during the acceleration mode;

(b) Fifteen percent (15%) during the lugging mode; and

(c) Fifty percent (50%) 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)

3.15 For Emission Points AA-401 through AA-406 and AA-408 through AA-413 [Diesel-Fired Emergency Engines Constructed After April 2006], the permittee shall only combust diesel fuel within the noted engines that meet 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)

3.16 Emission Points AA-407, AA-500c, and AA-500d [Natural Gas-Fired Emergency Engines Constructed After June 2006] 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)
(Ref.: 40 CFR 63.6590(c)(1); Subpart ZZZZ)

3.17 For Emission Points AA-407, AA-500c, and AA-500d [Natural Gas-Fired Emergency Engines Constructed After June 2006], the permittee shall not discharge into the atmosphere any gases that contain the following pollutants in excess of the corresponding emission standards from each noted engine:

(a) Nitrogen Oxides (NO_X): 2.0 grams per horsepower-hour (160 ppm_{vd} at 15% O_2);

(b) Carbon Monoxide (CO): 4.0 grams per horsepower-hour (540 ppm_{vd} at 15% O_2);

(c) Volatile Organic Compounds (VOCs): 1.0 grams per horsepower-hour (86 ppm_{vd} at 15% O_2).

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)

3.18 For Emission Points AA-407, AA-500c, and AA-500d [Natural Gas-Fired Emergency Engines Constructed After June 2006], the permittee may operate each engine with propane as an alternative fuel for a maximum of one hundred (100) hours per calendar year only during emergency operations.

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

3.19 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 [Facility-Wide Emergency Engines], any operation of an engine for any reason other than emergency operation, maintenance and testing, and operation in non-emergency situations for fifty (50) hours per year is prohibited. If an engine is not operated in accordance with Parts (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 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)

3.20 Emission Points AA-900b and AA-900d [Gasoline Dispensing Units (GDUs)] 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 (GDFs).

Unless otherwise specified, the permittee (i.e. the GDF) has a monthly throughput of less than 10,000 gallons.

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

SECTION 4
WORK PRACTICE STANDARDS

Emission Point(s)	Applicable Requirement(s)	Condition Number	Pollutant(s) / Parameter(s)	Work Practice Standard(s)
AA-401 through AA-406 AA-408 through AA-413	40 CFR 60.4211(a); Subpart IIII	4.1	NMHC + NO_X CO PM Opacity (Smoke)	Perform Compliance Practices
AA-900b AA-900d	40 CFR 63.11116(a); Subpart CCCCCC	4.2	HAPs	Minimize Vapor Releases
	40 CFR 63.11115(a); Subpart CCCCCC	4.3	HAPs	Perform Best Management Practices

4.1 For Emission Points AA-401 through AA-406 and AA-408 through AA-413 [Diesel-Fired Emergency Engines Constructed After April 2006], the permittee shall comply with the following practices to maintain compliance with the applicable emission standards outlined in Condition 3.14:

(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; and

(c) Meet the requirements of 40 CFR Part 89, 94, and/or 1068 (as applicable).

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

4.2 For Emission Points AA-900b and AA-900d [GDUs], 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. The 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; and

(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 [GDUs], the permittee shall operate and maintain each GDU (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 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 Five (5) Years
	11 Miss. Admin. Code Pt. 2, R. 2.2.B.(11).	5.2	NO_X CO SO_2	Calculate and Record Emissions (Monthly & Rolling 12-Month Totals)
		5.3		Monitor and Record Fuel Usage (Monthly & Rolling 12-Month Totals)
AA-101a AA-101b AA-102 AA-105 AA-106 AA-200a AA-200b	40 CFR 60.48c(g)(2); Subpart Dc	5.4	SO_2	Monitor and Record Monthly Consumption of Each Fuel Combusted
AA-101a AA-101b AA-102 AA-105 AA-106	40 CFR 60.42c(h)(1); Subpart Dc	5.5	SO_2	Maintain Fuel Certification Records (Fuel Oil)
	11 Miss. Admin. Code Pt. 2, R. 2.2.B.(11).	5.6	PM SO_2	Monitor and Record Periods of Combustion Research
AA-101a AA-101b AA-102	40 CFR 60.47c(a); Subpart Dc 11 Miss. Admin. Code Pt. 2, R. 2.2.B.(11).	5.7	Opacity	Conduct and Record EPA Method 9 or Method 22 Opacity Performance Tests (As Applicable)
	40 CFR 60.48c(c); Subpart Dc	5.8		Maintain Records from Opacity Performance Testing
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 63.6655(f)(2); Subpart ZZZZ 40 CFR 60.4214(b); Subpart IIII 40 CFR 60.4245(b); Subpart JJJJ 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 60.4211(g)(2) and (3); Subpart IIII	5.10	Manufacturer's Specifications	Conduct Compliance Demonstration Actions (As Applicable)
	40 CFR 60.4211(c); Subpart IIII	5.11	$NMHC + NO_X$ CO PM Opacity (Smoke)	Maintain Documentation that Demonstrates Engine Certifications
	11 Miss. Admin. Code Pt. 2, R. 2.2.B.(11).	5.12		Maintain Fuel Certification Records
AA-407 AA-500c AA-500d	40 CFR 60.4243 (a)(1), (a)(2)(ii – iii), (b)(1), and 40 CFR 60.4244; Subpart JJJJ	5.13	Manufacturer's Specifications	Conduct Compliance Demonstration Actions (As Applicable)
	40 CFR 60.4243(e); Subpart JJJJ 11 Miss. Admin. Code Pt. 2, R. 2.2.B.(11).	5.14	Propane Gas Usage	Monitor and Record Hours of Operation
AA-900b AA-900d	40 CFR 63.11111(e) and 63.11125(d); Subpart CCCCCC	5.15	HAPs	Record Monthly Cumulative Throughput and Malfunctions

5.1 The permittee shall retain all required records, monitoring data, supporting information and reports for a period of at least five (5) years from the date of the monitoring sample, measurement, report, or application. Support information includes all calibration and maintenance records, all original strip-chart recordings or other data for continuous monitoring instrumentation, and copies of all reports required by this permit. Copies of such records shall be submitted to the MDEQ as required by the "Applicable Rules and Regulations" of this permit upon request or an applicable Federal regulation.

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

5.2 For Emission Point AA-100 (Facility-Wide), the permittee shall calculate and record the total emission of nitrogen oxides (NO_X), carbon monoxide (CO), and sulfur dioxide (SO_2) in tons from all sources that can reasonably emit the pollutant(s) both monthly and on a rolling 12-month total basis.

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

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

5.3 For Emission Point AA-100 (Facility-Wide), the permittee shall monitor and record the total respective volume (in gallons or cubic feet) of fuel oil and natural gas combusted both monthly and on a rolling 12-month total.

(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, AA-106, AA-200a, and AA-200b [Boilers with Heat Input Capacity ≥ 10 MMBTU / Hour], the permittee shall monitor and record the volume (in gallons or cubic feet) of each fuel combusted monthly.

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

5.5 For Emission Points AA-101a, AA-101b, AA-102, AA-105, and AA-106 [Dual Fuel-Fired Boilers], the permittee shall demonstrate compliance with the sulfur content restriction specified in Condition 3.10 by maintaining documentation from the fuel oil supplier(s) that certifies both the sulfur content and the information required by Condition 6.7.

(Ref.: 40 CFR 60.42c(h)(1); Subpart Dc)

5.6 For Emission Points AA-101a, AA-101b, AA-102, AA-105, and AA-106 [Dual Fuel-Fired Boilers], the permittee shall monitor and record the duration (in hours) of any period in which a boiler is operated solely for combustion research. Additionally, the permittee shall maintain a brief description explaining the purpose for each period of combustion research.

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

5.7 For Emission Points AA-101a, AA-101b, and AA-102 [Boilers with Heat Input Capacity ≥ 30 MMBTU / Hour], when applicable, the permittee shall demonstrate initial compliance with the opacity limitation specified in Condition 3.10 by conducting and recording a performance test in accordance with EPA Test Method 9 (i.e. "Method 9") and the procedures outlined in 40 CFR 60.11; Subpart A (i.e. "the procedures") at the first instance a boiler combust fuel oil as the primary fuel source for a purpose not directly related to maintenance checks and readiness testing.

Thereafter, the permittee shall conduct and record subsequent performance tests in accordance with Method 9, the above-noted procedures, and one of the frequencies outlined in 40 CFR 60.47c(a)(1) – (3); Subpart Dc (as applicable) when a boiler combusts fuel oil as the primary fuel source for a purpose not directly related to maintenance checks and readiness testing.

The observation period for a Method 9 test may be reduced from three (3) hours to sixty (60) minutes if all 6-minute averages are less than ten percent (10%) and all individual 15-second observations are less than or equal to twenty percent (20%) during the initial 60 minutes of observation. The permittee must 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 [Boilers with Heat Input Capacity ≥ 30 MMBTU / Hour], the permittee shall maintain documentation that details the following information (as applicable):

(a) For each performance test conducted in accordance with EPA Test Method 9:

(1) The dates and time intervals of all opacity observation periods;

(2) The name, affiliation, and copy of current visible emission reading certification for each visible emission observer participating in the performance test; and

(3) Copies of all visible emission observer opacity field data sheets.

(b) For each performance test conducted in accordance with EPA Test Method 22 as outlined in 40 CFR 60.47c(a)(1) – (3); Subpart Dc:

(1) The dates and time intervals of all opacity observation periods;

(2) Name and affiliation for each visible emission observer participating in the performance test;

(3) The copies of all visible emission observer opacity field data sheets; and

(4) The 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.

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

5.9 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 [Facility-Wide Emergency Engines], the permittee shall monitor and record (via a non-resettable hour meter) the hours of operation for each engine for both emergency and non-emergency service on a monthly basis. Additionally, the permittee shall detail what classified each occurrence as either an emergency or a non-emergency.

(Ref.: 40 CFR 63.6655(f)(2), Subpart ZZZZ; 40 CFR 60.4214(b), Subpart IIII)
(Ref.: 40 CFR 60.4245(b), Subpart JJJJ; 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 [Diesel-Fired Emergency Engines Constructed After April 2006], 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 one (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 [Engines with HP > 500], 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)

5.11 For Emission Points AA-401 through AA-403, AA-405, AA-406, and AA-408 through AA-413 [Diesel-Fired Emergency Engines Constructed After April 2006], the permittee shall maintain documentation that certifies each engine complies with the applicable emission standards specified in Condition 3.14. Additionally, the permittee shall maintain records that denote each engine was installed and configured to the manufacturer's emission-related specifications.

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

5.12 For Emission Points AA-401 through AA-406 and AA-408 and AA-413 [Diesel-Fired Emergency Engines Constructed After April 2006], the permittee shall maintain documentation that demonstrates the fuel oil combusted in each engine complies with the requirements specified in Condition 3.15.

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

5.13 For Emission Points AA-407, AA-500c, and AA-500d [Natural Gas-Fired Emergency Engines Constructed After June 2006], the permittee shall demonstrate compliance with the following requirements:

(a) Confirm the purchase of a spark-ignition internal combustion engine certified to the emission standards specified in Condition 3.17 and maintain such documentation;

(b) If the permittee operates and maintains an engine according to the manufacturer's emission-related written instructions, the permittee shall maintain records of conducted maintenance to demonstrate compliance, but no performance testing is required. The permittee shall 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 shall 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 horsepower):

(1) For Emission Point AA-500c [Engine with $100 \leq HP \leq 500$] , the permittee shall conduct an initial performance test within one (1) year of engine start-up to demonstrate compliance;

(2) For Emission Points AA-407 and AA-500d [Engines with HP > 500], the permittee must conduct an initial performance test within one (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 shall be conducted in accordance with the procedures outlined in 40 CFR 60.4244(a) – (g); Subpart JJJJ.

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

5.14 For Emission Points AA-407, AA-500c, and AA-500d [Natural Gas-Fired Emergency Engines Constructed After June 2006], the permittee shall monitor and record the respective duration (in hours) in which each engine operates with propane as the primary fuel source. Additionally, the permittee shall document what circumstance(s) prompted the use of propane (in lieu of natural gas) and what classified the operation as an emergency.

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

5.15 For Emission Points AA-900b and AA-900d [GDUs], the permittee shall monitor and record the following information:

(a) The monthly cumulative throughput of gasoline from the combined storage tanks;

(b) The occurrence and duration of each malfunction for all equipment, which includes (but is not limited to) process equipment, air pollution control equipment, and monitoring equipment; and

(c) The action(s) taken during each period of malfunction to minimize emissions in accordance with Condition 4.3, which includes any corrective action(s) taken to restore the malfunctioning 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 Deviation from Requirements Within Five (5) Working Days
		6.2	Submit a Semi-Annual Monitoring Report (SMR)
		6.3	Submit Documents Certified by a Responsible Official
		6.4	Submit SO_2, CO, and NO_X Emissions in the SMR
		6.5	Submit Individual Fuel Usage in the SMR
AA-101a AA-101b AA-102 AA-105 AA-106	11 Miss. Admin. Code Pt. 2, R. 2.2.B.(11).	6.6	Submit a Notification on Subpart JJJJJJ Applicability (As Needed)
	40 CFR 60.48c(e)(11), (f)(1), and (j); Subpart Dc	6.7	Submit the Certifications for Fuel Oil Combusted in the Semi-Annual Monitoring Report (SMR)
AA-101a AA-101b AA-102	40 CFR 60.48c(c) and (j); Subpart Dc 11 Miss. Admin. Code Pt. 2, R. 2.2.B.(11).	6.8	Submit Excess Emissions in the SMR
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	11 Miss. Admin. Code Pt. 2, R. 2.2.B.(11).	6.9	Submit Hours of Operation (Non-Emergency and Emergency) in the SMR

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 action(s) and/or preventive measures taken. The report shall be submitted to the MDEQ 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 semi-annual monitoring report (SMR) of any required monitoring no later than July 31 and January 31 of each calendar year for the preceding six-month period. Each report shall contain any required monitoring specified in Section 6 of this permit. Additionally, all instances of deviations from permit requirements shall be clearly identified within a 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 (RO) that affirms, based on the 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 [Facility-Wide], the permittee shall submit a semi-annual monitoring report (SMR) in accordance with Condition 6.2 that details the total respective emission of sulfur dioxide (SO_2), carbon monoxide (CO), and nitrogen oxides (NO_X) from all applicable equipment in tons on both a monthly and 12-month rolling total basis.

The report shall include all reference data utilized to calculate 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 Point AA-100 [Facility-Wide], the permittee shall submit a semi-annual monitoring report (SMR) in accordance with Condition 6.2 that details the total respective volume (in gallons or cubic feet) of each fuel combusted on both a monthly and 12-month rolling total basis.

(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 [Dual Fuel-Fired Boilers], when an exceedance of the fuel usage restriction specified in Condition 3.8 occurs, 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 JJJJJJ. 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-101a, AA-101b, AA-102, AA-105, and AA-106 [Dual Fuel-Fired Boilers], the permittee shall submit a semi-annual monitoring report (SMR) in accordance with Condition 6.2 that details the fuel supplier certifications required by Condition 5.4.

Additionally, the report shall include a certified statement signed by a Responsible Official (RO) that verifies the submitted records represent all of the fuel combusted during the reporting period (as applicable). A fuel supplier certification shall specifically contain the following information for the fuel oil:

(a) The name of the oil supplier;

(b) 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; or

(ii) Diesel fuel oil numbers 1 or 2, as defined by the ASTM in Method D975.

(c) The sulfur content or maximum sulfur content of the oil.

(Ref.: 40 CFR 60.48c(e)(11), (f)(1), and (j); Subpart Dc)

6.8 For Emission Points AA-101a, AA-101b, and AA-102 [Boilers with Heat Input Capacity ≥ 30 MMBTU / Hour], the permittee shall submit a semi-annual monitoring report (SMR) in accordance with Condition 6.2 that summarizes all instances of deviation from the opacity limitation specified in Condition 3.10 (i.e. excess emissions). Additionally, the report shall include an explanation that details the cause of any excess emissions and the corresponding corrective action(s) taken to return a boiler to a compliant status.

(Ref: 40 CFR 60.48c(c) and (j); Subpart Dc)
(Ref.: 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-401 through AA-413, AA-500a through AA-500d, and AA-600 [Facility-Wide Emergency Engines], the permittee shall submit a semi-annual monitoring report (SMR) in accordance with Condition 6.2 that details the hours of operation for each engine.

Additionally, the report shall document how many hours are spent for emergency operation, what classified the operation as an emergency, 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).)