

# STATE OF MISSISSIPPI AIR POLLUTION CONTROL PERMIT

TO CONSTRUCT AIR EMISSIONS EQUIPMENT

## THIS CERTIFIES THAT

SDI Biocarbon Solutions, LLC  
661 Manufacturers Drive  
Columbus, Mississippi  
Lowndes County

has been granted permission to construct air emissions equipment to comply with the emission limitations, monitoring requirements and other conditions set forth herein. This permit is issued in accordance with the provisions of the Mississippi Air and Water Pollution Control Law (Section 49-17-1 et. seq., Mississippi Code of 1972), and the regulations and standards adopted and promulgated thereunder.

**MISSISSIPPI ENVIRONMENTAL QUALITY PERMIT BOARD**

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**AUTHORIZED SIGNATURE**  
**MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY**

Issued: \_\_\_\_\_

Permit No.: 1680-00088

## SECTION 1. GENERAL CONDITIONS

- 1.1 This permit is for air pollution control purposes only.  
(Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.1.D.)
- 1.1 Any activities not identified in the application are not authorized by this permit.  
(Ref.: Miss. Code Ann. 49-17-29(1)(b))
- 1.2 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 operating without a valid permit pursuant to State Law.  
(Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.2.B(5).)
- 1.3 It is the responsibility of the applicant/permittee to obtain all other approvals, permits, clearances, easements, agreements, etc., which may be required including, but not limited to, all required local government zoning approvals or permits.  
(Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.1.D(6).)
- 1.4 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).)
- 1.5 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 the 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).)
- 1.6 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).)
- 1.7 The permit does not convey any property rights of any sort, or any exclusive privilege.  
(Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.2.B(15)(c).)
- 1.8 The permittee shall furnish to the Department of Environmental Quality (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).)

- 1.9 *Design and Construction Requirements:* The stationary source shall be designed and constructed so as to operate without causing a violation of an Applicable Rules and Regulations, without interfering with the attainment and maintenance of State and National Ambient Air Quality Standards, and such that the emission of air toxics does not result in an ambient concentration sufficient to adversely affect human health and well-being or unreasonably and adversely affect plant or animal life beyond the stationary source boundaries.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.5.A(1)-(3).)

- 1.10 The necessary facilities shall be constructed to prevent any wastes or other products or substances to be placed in a location where they are likely to cause pollution of the air or waters of the State without the proper environmental permits.

(Ref.: Miss. Code Ann. 49-17-29(1) and (2))

- 1.11 *Fugitive Dust Emissions from Construction Activities:* The construction of the stationary source shall be performed in such a manner so as to reduce fugitive dust emissions from construction activities to a minimum.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.5.A(4).)

- 1.12 *General Nuisances:* The permittee shall not cause, permit, or allow the emission of particles or any contaminants in sufficient amounts or of such duration from any process as to be injurious to humans, animals, plants, or property, or to be a public nuisance, or create a condition of air pollution.

(a) The permittee shall not cause or permit the handling, transporting, or storage of any material in a manner which allows or may allow unnecessary amounts of particulate matter to become airborne.

(b) When dust, fumes, gases, mist, odorous matter, vapors, or any combination thereof escape from a building or equipment in such a manner and amount as to cause a nuisance to property other than that from which it originated or to violate any other provision of 11 Miss. Admin. Code Pt. 2, Ch. 1, the Commission may order such corrected in a way that all air and gases or air and gasborne material leaving the building or equipment are controlled or removed prior to discharge to the open air.

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

1.13 *Right of Entry:* The permittee shall allow the Mississippi Department of Environmental Quality Office of Pollution Control and the Mississippi Environmental Quality Permit Board and/or their representatives upon presentation of credentials:

- (a) To enter at reasonable times 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) 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 contaminants or waste waters, fuel, process material, or other material which affects or may affect emission of air contaminants from any source.

(Ref.: Miss. Code Ann. 49-17-21)

1.14 *Permit Modification or Revocation:* After notice and opportunity for a hearing, the Permit Board may modify the permit or revoke it in whole or in part for good cause shown including, but not limited to:

- (a) Persistent violation of any of the 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.)

1.15 *Public Record and Confidential Information:* 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)

1.16 *Permit Transfer:* This permit shall not be transferred except upon approval of the Permit Board.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.16.B.)

1.17 *Severability:* The provisions of this permit are severable. If any provision of the permit, or the application of any provision of the 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).)

- 1.18 *Permit Expiration:* The permit to construct will expire if construction does not begin within eighteen (18) months from the date of issuance, if construction is suspended for eighteen (18) months or more, or if construction is not completed within a reasonable time. The DEQ may extend the 18-month period upon a satisfactory showing that an extension is justified.  
(Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.5.C(1)., R. 2.5.C(4)., and R. 5.2.)
- 1.19 *Certification of Construction:* A new stationary source issued a Permit to Construct cannot begin operation until certification of construction by the permittee.  
(Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.5.D(3).)
- 1.20 *Beginning Operation:* After certification of construction by the permittee, the Permit to Construct shall be deemed to satisfy the requirement for a permit to operate until the date the application for issuance or modification of the Title V Permit or the application for issuance or modification of the State Permit to Operate, whichever is applicable, is due. This provision is not applicable to a source excluded from the requirement for a permit to operate as provided by 11 Miss. Admin. Code Pt. 2, R. 2.13.G.  
(Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.5.D(4).)
- 1.21 *Application for a Permit to Operate:* The application for issuance or modification of the State Permit to Operate or the Title V Permit, whichever is applicable, is due twelve (12) months after beginning operation or such earlier date or time as specified in the Permit to Construct. The Permit Board may specify an earlier date or time for submittal of the application. Beginning operation will be assumed to occur upon certification of construction, unless the permittee specifies differently in writing.  
(Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.5.D(5).)
- 1.22 *Operating Under a Permit to Construct:* Upon submittal of a timely and complete application for issuance or modification of a State Permit to Operate or a Title V Permit, whichever is applicable, the applicant may continue to operate under the terms and conditions of the Permit to Construct and in compliance with the submitted application until the Permit Board issues, modifies, or denies the Permit to Operate.  
(Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.5.D(6).)
- 1.23 Except as otherwise specified herein, the permittee shall be subject to the following provisions with respect to upsets, startups, 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 24 hours of becoming aware of an upset that caused an immediate adverse impact to human health or the environment beyond the source boundary or caused a general nuisance to the public, the source provided notification to the Department.
- (2) In any enforcement proceeding by the Commission, the source seeking to establish the occurrence of an upset has the burden of proof.
  - (3) This provision is in addition to any upset provision contained in any applicable requirement.
  - (4) These upset provisions apply only to enforcement actions by the Commission and are not intended to prohibit EPA or third party enforcement actions.
- (b) Startups and Shutdowns (as defined in 11 Miss. Admin. Code Pt. 2, R. 1.2.)
- (1) Startups and shutdowns are part of normal source operation. Emission limitations apply during startups and shutdowns unless source specific emission limitations or work practice standards for startups and shutdowns are defined by an applicable rule, regulation, or permit.
  - (2) Where the source is unable to comply with existing emission limitations established under the State Implementation Plan (SIP) and defined in 11 Mississippi Administrative Code, Part 2, Chapter 1, the Department will consider establishing source specific emission limitations or work practice standards for startups and shutdowns. Source specific emission limitations or work practice standards established for startups and shutdowns are subject to the requirements prescribed in 11 Miss. Admin. Code Pt. 2, R. 1.10.B(2)(a) through (e).

- (3) Where an upset, as defined in 11 Miss. Admin. Code Pt. 2, R. 1.2., occurs during startup or shutdown, see the upset requirements above.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 1.10.)

1.24 *General Duty:* All air emission equipment shall be operated as efficiently as possible to provide the maximum reduction of air contaminants.

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

1.25 *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).)

## SECTION 2. EMISSION POINT DESCRIPTION

The permittee is authorized to construct and operate, upon certification of construction, air emissions equipment, as described in the following table.

Emission Point	Description
AA-000	Facility-Wide (SDI Biocarbon Solutions, LLC)
AA-001	Material Handling Operations (Product Handling & Raw Material Handling)
AA-002	Biomass Chipper
AA-003	Hammer Mill
AA-004a AA-004b	Two (2) Waste Heat Rotary Dryers [equipped with six (6) cyclones; emissions are routed to WESP and Deconox (AA-013a) Stack #1 (AD-001) and WESP and Deconox (AA-013b) Stack #2 (AD-002); each Rotary Dryer has the ability to duct to either control device train.]
AA-005a AA-005b AA-005c AA-005d	Four (4) Pyrolysis Processors [emissions are routed to four (4) cyclones and/or condensers and combustors (AA-007a-d) OR Thermal Oxidizer (AA-008a) and SNCR Stack #1 (AC-001) and Thermal Oxidizer (AA-008b) and SNCR Stack #2 (AC-002); each Pyrolysis Processor has the ability to duct to any control device train.]
AA-006	Pellet Mills [equipped with eight (8) cyclones]
AA-007a AA-007b AA-007c AA-007d	Four (4) 124.4 MMBTU/hr Biogas- / Natural Gas-fired Combustors for the Pyrolysis Processors [control some emissions from AA-005a-d; emissions are routed to WESP and Deconox (AA-013a) Stack #1 (AD-001) and WESP and Deconox (AA-013b) Stack #2 (AD-002); each Combustor has the ability to duct to any control device train.]
AA-008a AA-008b	Two (2) 233.52 MMBTU/hr Biogas- / Natural Gas-fired Thermal Oxidizers [control some emissions from AA-005a-d; emissions are routed to SNCR #1 (AC-001) and SNCR #2 (AC-002)]
AA-009a AA-009b	Two (2) 15 MMBTU/hr Waste Heat- / Biogas- / Natural Gas-fired Pellet Dryers [emissions are routed to Baghouse #1 (AB-001) and Baghouse #2 (AB-002) which are voluntary controls]
AA-010	816 HP (608 kW) Diesel-fired Emergency Generator Engine [manufactured after April 1, 2006]
AA-011	544 HP (406 kW) Diesel-fired Emergency Generator Engine [manufactured after April 1, 2006]
AA-012	82 HP (61 kW) Natural Gas-fired Emergency Generator Engine [manufactured after April 1, 2006]
AA-013a AA-013b	Two (2) 7.1 MMBTU/hr Biogas- / Natural Gas-fired Deconox [controls emissions from AA-004a-b, AA-007a-d, and AA-014a-b; emissions are routed to WESP and Deconox (AA-013a) Stack #1 (AD-001) and WESP and Deconox (AA-013b) Stack #2 (AD-002)]
AA-014a AA-014b	Two (2) 20 MMBTU/hr Biogas- / Natural Gas-fired Rotary Dryers [emissions are routed to WESP and Deconox (AA-013a) Stack #1 (AD-001) and WESP and Deconox (AA-013b) Stack #2 (AD-002); each Rotary Dryer has the ability to duct to either control device train.]
AB-001	Voluntary Baghouse #1 [controls emissions from AA-009a-b]



Emission Point	Description
AB-002	Voluntary Baghouse #2 [controls emissions from AA-009a-b]
AC-001	Thermal Oxidizer and SNCR Stack #1 [controls emissions from AA-005a-d and AA-008a-b]
AC-002	Thermal Oxidizer and SNCR Stack #2 [controls emissions from AA-005a-d and AA-008a-b]
AD-001	WESP and Deconox Stack #1 [controls emissions from AA-004a-b, AA-007a-d, AA-013a-b, and AA-014a-b]
AD-002	WESP and Deconox Stack #2 [controls emissions from AA-004a-b, AA-007a-d, AA-013a-b, and AA-014a-b]
ES-001a-d	Emergency Stacks #1a-d [routes emissions from AA-007a-d]
ES-002a-d	Emergency Stacks #2a-d [equipped with pilot lights; controls emissions from AA-005a-d]
ES-003a-b	Emergency Stacks #3a-b [routes emissions from AA-007a-d]
ES-004a-b	Emergency Stacks #4a-b [routes emissions from AA-004a-b and AA-014a-b]

**SECTION 3. EMISSION LIMITATIONS AND STANDARDS**

<b>Emission Point</b>	<b>Applicable Requirement</b>	<b>Condition Number(s)</b>	<b>Pollutant/Parameter</b>	<b>Limitation/Standard</b>	
AA-000 (Facility-Wide)	11 Miss. Admin. Code Pt. 2, R. 1.3.A.	3.1	Opacity	≤ 40% (from smoke)	
	11 Miss. Admin. Code Pt. 2, R. 1.3.B.	3.2		≤ 40%	
	11 Miss. Admin. Code Pt. 2, R. 1.3.F(1).	3.3	PM (Filterable)	$E = 4.1 \cdot (p^{0.67})$	
	<b>(PSD Avoidance Limits)</b>	11 Miss. Admin. Code Pt. 2, R. 2.2.B.(10).	3.4	PM (filterable)	240.0 tpy (Rolling 12-Month Total)
				PM <sub>10</sub> / PM <sub>2.5</sub> (filterable + condensable)	240.0 tpy (Rolling 12-Month Totals)
				CO	240.0 tpy (Rolling 12-Month Total)
				NO <sub>x</sub>	240.0 tpy (Rolling 12-Month Total)
VOC	240.0 tpy (Rolling 12-Month Total)				
<b>(Major Source Avoidance Limits)</b>	11 Miss. Admin. Code Pt. 2, R. 2.2.B.(10).	3.5	HAPs	24.0 tpy Total (Rolling 12-Month Total) 9.0 tpy Individual (Rolling 12-Month Total)	
11 Miss. Admin. Code Pt. 2, R. 2.2.B(10).	3.6	PM (filterable) PM <sub>10</sub> / PM <sub>2.5</sub> (filterable + condensable) CO NO <sub>x</sub> VOCs HAPs	Emission Control Requirements		
AA-007a-d AA-008a-b AA-009a-b AA-013a-b AA-014a-b	11 Miss. Admin. Code Pt. 2, R. 1.3.D(1)(b).	3.7	PM (filterable)	$E = 0.8808 \cdot (I^{-0.1667})$	
AA-010 AA-011 AA-012	11 Miss. Admin. Code Pt. 2, R. 1.3.D(1)(a).	3.8	PM (filterable)	0.6 lbs / MMBTU	

Emission Point	Applicable Requirement	Condition Number(s)	Pollutant/Parameter	Limitation/Standard
AA-010 AA-011 AA-012	40 CFR Part 63, Subpart ZZZZ – NESHAP for Stationary Reciprocating Internal Combustion Engines  40 CFR 63.6585(a), (c), and 63.6590(c)(1); Subpart ZZZZ	3.9	HAPs	General Applicability
AA-010 AA-011	40 CFR Part 60, Subpart III – Standards of Performance for Stationary Compression Ignition Combustion Engines  40 CFR 60.4200(a)(2) and 60.4218(a); Subpart III	3.10	NMHC + NO <sub>x</sub>  CO  PM	General Applicability
	40 CFR 60.4207(b); Subpart III	3.11	Fuel Requirement	15 ppm Sulfur Content (Max.) 40 Cetane Index (Min.) or 35% Aromatic Content (Max. – by volume)
AA-010 AA-011 AA-012	40 CFR 60.4211(f)(1) – (3); Subpart III  40 CFR 60.4243(d)(1) – (3); Subpart JJJJ	3.12	Operational Requirements	100 Hours / Calendar Year for Maintenance and Readiness Testing; 50 Hours / Calendar Year for Non-Emergency Situations
AA-010 AA-011	40 CFR 60.4202(a)(2), 60.4205(b), 60.4206, and 60.4211(c); Subpart III  40 CFR 1039.105; Subpart B	3.13	Smoke Opacity Standard	20% During Acceleration Mode 15% During Lugging Mode 50% During Peaks in Either Acceleration or Lugging Mode
AA-010	40 CFR 60.4202(a)(2), 60.4205(b), 60.4206, and 60.4211(c); Subpart III  40 CFR 1039 – Tier 2 Emission Standards	3.14	NMHC + NO <sub>x</sub>  CO  PM	6.4 g / kW-hr  3.5 g / kW-hr  0.20 g / kW-hr
AA-011	40 CFR 60.4202(a)(2), 60.4205(b), 60.4206, and 60.4211(c); Subpart III  40 CFR 1039 – Tier 3 Emission Standards	3.15	NMHC + NO <sub>x</sub>  CO  PM	4.0 g / kW-hr  3.5 g / kW-hr  0.20 g / kW-hr
AA-012	40 CFR Part 60, Subpart JJJJ – Standards of Performance for	3.16	NO <sub>x</sub> + HC  CO	General Applicability

Emission Point	Applicable Requirement	Condition Number(s)	Pollutant/Parameter	Limitation/Standard
	Stationary Spark Ignition Internal Combustion Engines  40 CFR 60.4230(a)(4)(iv); Subpart JJJJ			
AA-012	40 CFR 60.4233(d), 60.4234, and Table 1; Subpart JJJJ	3.17	NO <sub>x</sub> + HC	10 g / HP-hr
			CO	387 g / HP-hr

3.1 For Emission Point AA-000 (Facility-Wide), except as otherwise specified herein, the permittee shall not cause or allow the emission of smoke into the open air from a point source or from any manufacturing / industrial process on-site that exceeds forty (40) percent opacity subject to the following exceptions:

- (a) Start-up operations may produce emissions that exceed 40% opacity for up to fifteen (15) minutes per start-up in any one (1) hour and not to exceed three (3) start-ups per stack in any twenty-four (24) hour period.
- (b) Emissions resulting from soot blowing operations shall be permitted provided such emissions do not exceed sixty (60) percent opacity and provided further that the aggregation duration of such emissions during any twenty-four (24) hour period does not exceed ten (10) minutes per billion BTU gross heating value of fuel in any (1) one hour.

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

3.2 For Emission Point AA-000 (Facility-Wide), except as otherwise specified herein, the permittee shall not discharge into the ambient air from a point source any contaminant of such opacity as to obscure an observer’s view to a degree in excess of 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-000 (Facility-Wide), except as otherwise specified herein, the permittee shall not cause or allow the emission of particulate matter (PM) in total quantities in any one (1) hour from any manufacturing process (which includes any associated stacks, vents, outlets, or combinations thereof) to exceed the amount determined by the relationship:

$$E = 4.1 \cdot (p^{0.67})$$

Where “E” is the emission rate in pounds per hour and “p” is the process weight input rate in tons per hour. Conveyer discharge of coarse solid matter may be allowed if no nuisance is created beyond the property boundary where the discharge occurs.

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

- 3.4 For Emission Point AA-000 (Facility-Wide), the permittee shall limit the total emission of particulate matter (PM; filterable), particulate matter less than 10 microns ( $\mu\text{m}$ ) in diameter ( $\text{PM}_{10}$ ; filterable + condensable), particulate matter less than 2.5  $\mu\text{m}$  in diameter ( $\text{PM}_{2.5}$ ; filterable + condensable), carbon monoxide (CO), nitrogen oxides ( $\text{NO}_x$ ), and volatile organic compounds (VOC) from all applicable emission sources to no more than 240.0 tons per year (tpy) for each pollutant based on a rolling 12-month total.

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

- 3.5 For Emission Point AA-000 (Facility-Wide), the permittee shall limit the total emission of hazardous air pollutants (HAP) to no more than 24.0 tons per year (tpy) and any individual HAP to no more than 9.0 tpy based on a rolling 12-month total.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.2.B(10).– Major Source Avoidance Limits)

- 3.6 For Emission Points AA-000 (Facility-Wide), the permittee shall operate the pollution control devices at all times that associated process equipment is in operation. In the event that a control device malfunctions or becomes non-operational, the permittee shall take actions as expeditiously as possible to bring the device back to normal operation or cease the operation of the associated process equipment.

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

- 3.7 For Emission Points AA-007a-d, AA-008a-b, AA-009a-b, AA-013a-b, AA-014a-b, the maximum permissible emission of ash and/or particulate matter (PM) from any fossil fuel burning installation equal to or greater than ten (10) MMBTU per hour heat input but less than 10,000 MMBTU per hour heat input shall not exceed an emission rate as determined by the relationship

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

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

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

- 3.8 For Emission Points AA-010, AA-011, and AA-012, the maximum permissible emission of ash and/or particulate matter (PM) from any fossil fuel burning installation less than ten (10) MMBTU per hour heat input 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).)

- 3.9 For Emission Points AA-010, AA-011, and AA-012, the permittee is subject to and shall comply with the applicable requirements found in 40 CFR Part 63, Subpart ZZZZ – National Emission Standards for Hazardous Air Pollutants (NESHAP) for Stationary

Reciprocating Internal Combustion Engines (RICE) and 40 CFR Part 63, Subpart A – General Provisions (as required by Table 8 of Subpart ZZZZ).

For the purpose of this permit, stationary RICE is classified as “new” if construction or reconstruction commenced on / after June 12, 2006.

For new compression-ignition RICE, the permittee shall comply with the applicable requirements in Subpart ZZZZ by complying with 40 CFR Part 60, Subpart IIII – Standards of Performance for Stationary Compression Ignition (CI) Combustion Engines. No further requirements apply for such engines under Subpart ZZZZ.

For new spark-ignition RICE, the permittee shall comply with the applicable requirements in Subpart ZZZZ by complying with 40 CFR Part 60, Subpart JJJJ – Standards of Performance for Stationary Spark Ignition Internal Combustion Engines. No further requirements apply for such engines under Subpart ZZZZ.

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

- 3.10 For Emission Points AA-010 and AA-011, the permittee is subject to and shall comply with all applicable requirements found in 40 CFR Part 60, Subpart IIII – Standards of Performance for Stationary Compression Ignition Internal Combustion Engines and 40 CFR Part 60, Subpart A – General Provisions (as required by Table 8 of Subpart IIII).

(Ref.: 40 CFR 60.4200(a)(2) and 60.4218(a); Subpart IIII)

- 3.11 For Emission Points AA-010 and AA-011, the permittee shall only combust diesel fuel within each engine that meets the following requirements (on a per-gallon basis):

- (a) A maximum sulfur content of fifteen (15) parts per million (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)

- 3.12 For Emission Points AA-010, AA-011, and AA-012, any operation of the 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 paragraphs (a) through (c) of this condition, the engine will not be considered an emergency engine under the applicable 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 associated

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. Except as provided in 40 CFR 60.4211(f)(3)(i) of Subpart III and 40 CFR 60.4243(d)(3)(i) of Subpart JJJJ, 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 60.4211(f)(1) – (3); Subpart III)  
(Ref.: 40 CFR 60.4243(d)(1) – (3); Subpart JJJJ)

3.13 For Emission Points AA-010 and AA-011, the permittee shall purchase an engine certified to meet the following smoke opacity standards:

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

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

(Ref.: 40 CFR 60.4202(a)(2), 60.4205(b), 60.4206, and 60.4211(c); Subpart III and 40 CFR 1039.105; Subpart B)

3.14 For Emission Point AA-010, the permittee shall purchase an engine certified to meet the following emission standards:

- (a) Non-Methane Hydrocarbons + Nitrogen Oxides (NMHC + NO<sub>x</sub>): 6.4 grams per kilowatt-hour;
- (b) Carbon Monoxide (CO): 3.5 grams per kilowatt-hour; and
- (c) Particulate Matter (PM): 0.20 grams per kilowatt-hour.

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

(Ref.: 40 CFR 60.4202(a)(2), 60.4205(b), 60.4206, and 60.4211(c); Subpart IIII and 40 CFR 1039 – Tier 2 Emission Standards)

3.15 For Emission Points AA-011, the permittee shall purchase an engine certified to meet the following emission standards:

- (a) Non-Methane Hydrocarbons and Nitrogen Oxides (NMHC + NO<sub>x</sub>): 4.0 grams per kilowatt-hour (g / kW-hr);
- (b) Carbon Monoxide (CO): 3.5 grams per kilowatt-hour; and
- (c) Particulate Matter (PM): 0.20 grams per kilowatt-hour.

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

(Ref.: 40 CFR 60.4202(a)(2), 60.4205(b), 60.4206, and 60.4211(c); Subpart IIII and 40 CFR 1039 – Tier 3 Emission Standards)

3.16 For Emission Point AA-012, the permittee is subject to and shall comply with the applicable requirements found in 40 CFR Part 60, Subpart JJJJ – Standards of Performance for Stationary Spark Ignition Internal Combustion Engines and 40 CFR Part 60, Subpart A – General Provisions (as required by Table 8 of Subpart JJJJ).

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

3.17 For Emission Points AA-012, the permittee shall purchase an engine certified to meet the following emission standards:

- (a) Nitrogen Oxides and Hydrocarbons (NO<sub>x</sub> + HC): 10 grams per horsepower-hour (g / HP-hr); and
- (b) Carbon Monoxide (CO): 387 grams per horsepower-hour (g / HP-hr).

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



(Ref.: 40 CFR 60.4233(d), 60.4234, and Table 1; Subpart JJJ)

**SECTION 4. WORK PRACTICES**

Emission Point	Applicable Requirement	Condition Number(s)	Work Practice
AA-010 AA-011 AA-012	40 CFR 60.4211(a); Subpart III  40 CFR 60.4243(a) and (b)(1); Subpart JJJJ	4.1	Perform Compliance Practices

4.1 For Emission Points AA-010, AA-011, and AA-012, the permittee shall demonstrate compliance with the emission standards specified in Conditions 3.14, 3.15, and 3.16 by performing the following work practices:

- (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 1068 (as applicable).

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

(Ref.: 40 CFR 60.4243(a) and (b)(1); Subpart JJJJ)

**SECTION 5. MONITORING AND RECORDKEEPING REQUIREMENTS**

<b>Emission Point</b>	<b>Applicable Requirement</b>	<b>Condition Number(s)</b>	<b>Pollutant/Parameter</b>	<b>Monitoring/Recordkeeping Requirement</b>
AA-000 (Facility-Wide)	11 Miss. Admin. Code Pt. 2, R. 2.9.	5.1	Recordkeeping	Maintain Records for a Minimum of 5 Years
	11 Miss. Admin. Code Pt. 2, R. 2.2.B(11).	5.2	PM/ PM <sub>10</sub> / PM <sub>2.5</sub> CO NO <sub>x</sub> VOCs	Calculate the Total Emissions of Each Pollutant (Monthly and Rolling 12-Month Totals)
		5.3	HAPs	Calculate the Emissions of Each HAP and All HAPs in Total (Monthly and Rolling 12-Month Totals)
AA-002 AA-003 AA-006 AC-001 AC-002 AD-001 AD-002		5.4	Opacity	Conduct a Visible Emission Observation / Evaluation Monthly
AA-005a-d AA-007a-d AA-008a-b AA-013a-b AC-001 AC-002 AD-001 AD-002	11 Miss. Admin. Code Pt. 2, R. 2.2.B(11).	5.5	Process Gas Temperature / Secondary Parameter	Install, Calibrate, Monitor, Operate, and Inspect Continuous Monitoring / Recording System for Operating Parameters
		5.6	Combustion Chamber Temperature  Primary Voltage	Air Pollution Control Device Operational Specifications
	11 Miss. Admin. Code Pt. 2, R. 2.2.B(11).	5.7	PM/ PM <sub>10</sub> / PM <sub>2.5</sub> CO NO <sub>x</sub> VOC HAPs	Perform an Inspection on Each Control Device Monthly  Maintain Documentation on Periods of Non-Operation for the Control Devices
AA-008a-d	11 Miss. Admin. Code Pt. 2, R. 2.2.B(11).	5.8	VOCs HAPs CO	Continuously Monitor the Combustion Chamber Temperature (Each TO)
AA-010 AA-011 AA-012	40 CFR 60.4209(a); Subpart III	5.9	Emergency Engine Status	Install a Non-Resettable Hour Meter (If Applicable)

Emission Point	Applicable Requirement	Condition Number(s)	Pollutant/Parameter	Monitoring/Recordkeeping Requirement
	40 CFR 60.4237(c); Subpart JJJJ  11 Miss. Admin. Code Pt. 2, R. 2.2.B(11).			
AA-010 AA-011	40 CFR 60.4214(b); Subpart III  11 Miss. Admin. Code Pt. 2, R. 2.2.B.(11).	5.10	Emergency Engine Status	Recordkeeping Requirements
	40 CFR 60.4211(g); Subpart III	5.11		Compliance Practices if an Engine is Not Maintained According to Manufacturer's Instructions
AA-012	40 CFR 60.4243(b)(1); Subpart JJJJ	5.12	Emergency Engine Status	Compliance Practices if an Engine is Not Maintained According to Manufacturer's Instructions
	40 CFR 60.4245(a), (b); Subpart JJJJ	5.13		Recordkeeping Requirements
AA-013a-b	11 Miss. Admin. Code Pt. 2, R. 2.2.B(11).	5.14	NO <sub>x</sub> VOCs HAPs CO	Continuously Monitor the Combustion Chamber Temperature (Each Deconox)  Continuously Monitor the Secondary Parameter (Each Deconox)
AB-001 AB-002 AC-001 AC-002 AD-001 AD-002	11 Miss. Admin. Code Pt. 2, R. 2.2.B(11).	5.15	PM/ PM <sub>10</sub> / PM <sub>2.5</sub>  CO NO <sub>x</sub> VOC HAPs	Conduct Initial and Subsequent Performance Testing  Establish Operating Parameters
AC-001 AC-002	11 Miss. Admin. Code Pt. 2, R. 2.2.B(11).	5.16	NO <sub>x</sub>	Continuously Monitor the Process Gas Temperature (Each SNCR)  Continuously Monitor the Secondary Parameter (Each SNCR)

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, but is not limited to, all calibration and maintenance records, all original strip-chart recordings or other data for

continuous monitoring instrumentation, and copies of all reports required by this permit. Copies of such records shall be submitted to DEQ as required by Applicable Rules and Regulations or this permit upon request.

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

- 5.2 For Emission Point AA-000 (Facility-Wide), the permittee shall calculate and record the total respective emission of PM (filterable), PM<sub>10</sub> (filterable + condensable), PM<sub>2.5</sub> (filterable + condensable), CO, NO<sub>x</sub>, and VOCs from all applicable emission sources in tons both on a monthly and rolling 12-month total basis.

Unless otherwise specified herein, the permittee shall maintain records of all reference data utilized to validate calculated emissions (operational data, applicable emission factors, engineering judgement determinations, stack testing results, etc.).

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

- 5.3 For Emission Point AA-000 (Facility-Wide), the permittee shall calculate and record the emission of the highest individual hazardous air pollutant (HAP), and total HAPs as identified in the initial compliance test and/or emissions estimates, from all applicable sources in tons both on a monthly and rolling 12-month total basis.

Unless otherwise specified herein, the permittee shall maintain records of all reference data utilized to validate calculated emissions (operational data, applicable emission factors, engineering judgement determinations, stack testing, etc.)

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

- 5.4 For Emission Points AA-002, AA-003, AA-006, AC-001, AC-002, AD-001, and AD-002, the permittee shall perform a visible emission observation in accordance with EPA Test Method 22 on the exhaust of each source on a monthly basis during daylight hours and during representative operating conditions. Each observation shall be performed for a minimum of six (6) consecutive minutes.

If visible emissions are detected during an observation, the permittee shall immediately perform a visible emissions evaluation (VEE) in accordance with EPA Test Method 9. However, in lieu of performing a VEE, the permittee may assume that the visual opacity of emissions from a source exceed the applicable limitation (i.e. Condition 3.1 or 3.2) and immediately implement corrective actions.

In the event that a VEE is required but cannot be conducted, the permittee shall record a written explanations as to why it was not possible to perform the VEE and shall conduct the VEE as soon as practicable.

The permittee shall maintain all documentation and information specified by Method 22 and/or Method 9, any corrective actions taken to prevent or minimize emissions as a result of the evaluation, and the date / time when each observation / evaluation was conducted.

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

5.5 For Emission Points AA-005a-d, AA-007a-d, AA-008a-b, AA-013a-b, AC-001, AC-002, AD-001, AD-002, the permittee shall install, calibrate, operate, maintain, and inspect a continuous monitoring and recording system for the operating parameters specified for each of the following control devices in accordance with the manufacturer's recommendations:

- (a) Selective Noncatalytic Reduction (SNCR) – process gas temperature (in degrees Fahrenheit) and a secondary operating parameter (injection nozzle flow rate, injection nozzle supply pressure, etc.) chosen by the facility and approved by the DEQ. The SNCR system shall be operated in a manner recommended by the manufacturer and using good work practices to minimize ammonia slip when feasible;
- (b) Thermal Oxidizer (TO) – combustion chamber temperature (in degrees Fahrenheit);
- (c) Wet Electrostatic Precipitator (WESP) – primary voltage (in kV)
- (d) Deconox – combustion chamber temperature (in degrees Fahrenheit) and a secondary operating parameter (injection nozzle flow rate, injection nozzle supply pressure, etc.) chosen by the facility and approved by the DEQ. The Deconox system shall be operated in a manner recommended by the manufacturer and using good work practices to minimize ammonia slip when feasible.

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

5.6 For Emission Points AA-005a-d, AA-007a-d, AA-008a-b, AA-013a-b, AC-001, AC-002, AD-001, and AD-002, the permittee shall operate and maintain each air pollution control device in accordance with the specified manufacturer's instructions / recommendations until such a time as the applicable operating parameters required by Conditions 5.7 are established.

Additionally, the permittee shall maintain documentation that details the manufacturer's instructions / recommendations for each control device.

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

5.7 For Emission Points AA-005a-d, AA-007a-d, AA-008a-b, AA-013a-b, AC-001, AC-002, AD-001, and AD-002, the permittee shall demonstrate compliance with Condition 3.6 by

performing an inspection that evaluates the performance capability of each control device on a monthly basis.

If a problem is noted during an inspection of a control device, the permittee shall perform the necessary maintenance to ensure proper operation. Additionally, the permittee shall maintain on-site (to the best extent practicable) sufficient components as is necessary to repair a control device.

The permittee shall maintain documentation that details the date / time each inspection is performed, any noted problem that is experienced, and any maintenance (either corrective or preventative) performed to return a control device to proper operation. Additionally, the permittee shall monitor and record each period of time (including the date and duration) in which a control device is non-operational while the associated emission unit is in operation on a monthly basis.

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

- 5.8 For Emission Points AA-008a-b, the permittee shall continuously monitor and record the combustion chamber temperature (in degrees Fahrenheit) based on a 3-hour block average. The permittee shall perform annual burner inspections.

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

- 5.9 For Emission Points AA-010, AA-011, and AA-012, **If** the emergency engine does not meet the standards applicable to non-emergency engines in the applicable model year, the permittee shall install a non-resettable hour meter.

(Ref.: 40 CFR 60.4209(a); Subpart IIII  
(Ref.: 40 CFR 60.4237(c); Subpart JJJJ)  
(Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.2.B.(11).)

- 5.10 For Emission Points AA-010 and AA-011, the permittee shall maintain documentation that details the following information:

- (a) The owner or operator is not required to submit an initial notification;
- (b) **If** the emergency engine does not meet the standards applicable to non-emergency engines in the applicable model year, the owner or operator must keep records of the operation of the engine in emergency and non-emergency service that are recorded through the non-resettable hour meter. The owner must record the time of operation of the engine and the reason the engine was in operation during that time.

(Ref.: 40 CFR 60.4214(b); Subpart IIII)

- 5.11 For Emission Points AA-010 and AA-011, **if** the permittee does not operate and maintain the engine according to the manufacturer's emission-related written instructions or the permittee changes emission-related settings in a way that is not permitted by the

manufacturer, the permittee shall demonstrate compliance in accordance with 40 CFR 60.4211(g), Subpart IIII.

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

- 5.12 For Emission Points AA-012, **if** the permittee does not operate and maintain the engine according to the manufacturer's emission-related written instructions or the permittee changes emission-related settings in a way that is not permitted by the manufacturer, the permittee shall demonstrate compliance in accordance with 40 CFR 60.4243(b)(1), Subpart JJJJ.

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

- 5.13 For Emission Points AA-012, the permittee shall maintain documentation that details the following information:

- (a) All notifications submitted must comply with Subpart JJJJ;
- (b) Any maintenance conducted on an engine; and
- (c) Documentation from the manufacturer that indicate an engine is certified to meet the emission standards specified in Conditions 3.17.
- (d) **If** the engine does not meet the standards applicable to non-emergency engines, the owner or operator of must keep records of the hours of operation of the engine that is recorded through the non-resettable hour meter. The owner or operator must document how many hours are spent for emergency operation, including what classified the operation as emergency and how many hours are spent for non-emergency operation

(Ref.: 40 CFR 60.4245(a), (b); Subpart JJJJ)

- 5.14 For Emission Points AA-013a-b, the permittee shall continuously monitor and record the combustion chamber temperature (in degrees Fahrenheit) based on a 3-hour block average. Additionally, the permittee shall continuously monitor an approved secondary operating parameter for each Deconox. The permittee shall perform annual burner inspections.

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

- 5.15 For Emission Points AB-001, AB-002, AC-001, AC-002, AD-001, and AD-002, the permittee shall conduct initial and subsequent performance testing for each emission source in accordance with the following requirements:

- (a) For Emission Points AB-001, AB-002, AC-001, AC-002, AD-001, AD-002, the permittee shall evaluate the emission of PM (filterable), PM<sub>10</sub> (filterable + condensable), PM<sub>2.5</sub> (filterable + condensable), CO, NO<sub>x</sub>, and VOCs no later than one hundred eighty (180) days after initial startup. Subsequent testing shall be



conducted biennially thereafter [no later than twenty-five (25) months after the previously completed performance test].

- (b) For Emission Points AC-001, AC-002, AD-001, and AD-002, the permittee shall evaluate the emission of HAPs no later than one hundred eighty (180) days after initial startup. Subsequent testing shall be conducted biennially thereafter [no later than twenty-five (25) months after the previously completed performance test].

For purposes of the initial performance test, HAP testing shall be conducted for Acrolein, Formaldehyde, Phenol, Hydrogen Chloride, and Methanol.

- (c) All performance testing shall be conducted in accordance with an applicable EPA-approved test method found in Appendix A of 40 CFR Part 60, Appendix M of 40 CFR Part 51, Appendix A of 40 CFR Part 63, or an applicable alternative test method approved by MDEQ prior to the testing event.
- (d) The permittee shall conduct a minimum of three (3) separate test runs for a performance stack test as specified in 40 CFR 63.7(e)(3), Subpart A.
- (e) As applicable, the permittee shall conduct a performance stack test at representative operating conditions. Operations during periods of start-up, shutdown, or nonoperation do not constitute “representative operating conditions”. The permittee may not conduct performance tests during periods of malfunction. The permittee shall monitor and record the process information that is necessary to document operating conditions during the test and explain why the conditions represent normal operation.
- (f) The MDEQ may require the permittee to conduct a subsequent performance stack test if the heat input rate of a unit increases by more than ten percent (10%) of the average rate established during the completed test;
- (g) As applicable, the permittee shall monitor and record the usage of each fuel combusted during each test run.
- (h) For each SNCR, during each NO<sub>x</sub>-related performance test, the permittee shall establish: (1) a process gas temperature range (in degrees Fahrenheit) and (2) an approved secondary operating parameter. The permittee shall continuously monitor and record each parameter (as applicable) during each test run.
- (i) For each Deconox, during each NO<sub>x</sub>-, VOC / HAP- and CO- -related performance test, the permittee shall establish: (1) a combustion chamber temperature range (in degrees Fahrenheit) and (2) an approved secondary operating parameter. The permittee shall continuously monitor and record each parameter (as applicable) during each test run.

- (i) The permittee shall establish a minimum combustion chamber temperature (in degrees Fahrenheit) for each TO during each VOC / HAP- and CO- related performance test by continuously monitoring and recording the combustion chamber temperature during each test run.
  
- (j) For each WESP, during each PM-related performance test, the permittee shall establish a primary voltage range (in kV). The permittee shall continuously monitor and record this parameter (as applicable) during each test run.

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

- 5.16 For Emission Points AC-001 and AC-002 (SNCR), the permittee shall continuously monitor and record the process gas temperature (in degrees Fahrenheit) and approved secondary operating parameter for each SNCR. All parameters shall be monitored based on a 3-hour block average.

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

## SECTION 6. REPORTING REQUIREMENTS

Emission Point	Applicable Requirement	Condition Number(s)	Reporting Requirement
AA-000 (Facility-Wide)	11 Miss. Admin. Code Pt. 2, R. 2.2.B(11).	6.1(a)	Report Deviations Within Five (5) Working Days
	11 Miss. Admin. Code Pt. 2, R. 2.2.B(11).	6.1(b)	Semi-Annual Reporting Requirements
	11 Miss. Admin. Code Pt. 2, R. 2.2.B(11).	6.1(c)	Submit Certification Signed By A Responsible Official
	11 Miss. Admin. Code Pt. 2, R. 2.5.C(2).	6.1(d)	Submit a Notification on Beginning Actual Construction
	11 Miss. Admin. Code Pt. 2, R. 2.5.C(3).	6.1(e)	Submit a Notification When Construction Does Not Begin or Is Suspended
	11 Miss. Admin. Code Pt. 2, R. 2.5.D(1) and (3).	6.1(f)	Submit a Certification on the Completion of Construction Prior to Operation
	11 Miss. Admin. Code Pt. 2, R. 2.5.D(2).	6.1(g)	Submit a Notification on Changes in Construction
	11 Miss. Admin. Code Pt. 2, R. 2.2.B.(11).	6.2	Submit a Semi-Annual Monitoring Report
6.3		Submit a Notification on the Initial Start-Up of On-Site Operations	
AB-001 AB-002 AC-001 AC-002 AD-001 AD-002	11 Miss. Admin. Code Pt. 2, R. 2.2.B(11). and 2.6.B(5).	6.4	Stack Test Reporting Requirements
AA-010 AA-011 AA-012	11 Miss. Admin. Code Pt. 2, R. 2.2.B.(11).	6.5	Submit an Annual Summary on Hours of Operation (Emergency and Non-Emergency)

### 6.1 General Reporting Requirements:

- (a) 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).)

- (b) Beginning upon issuance of this permit and lasting until issuance or modification of the applicable operating permit, the permittee shall submit reports of any required monitoring by July 31<sup>st</sup> and January 31<sup>st</sup> for the preceding six-month period. All instances of deviations from permit requirements must be clearly identified in such reports and all required reports must be certified by a responsible official consistent with 11 Miss. Admin. Code Pt. 2, R. 2.1.C. 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. For any air emissions equipment not yet constructed and/or operating the report shall so note and include an estimated date of commencement of construction and/or startup, whichever is applicable.  
(Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.2.B(11).)
- (c) Any document required by this permit to be submitted to the DEQ shall contain a certification signed by a responsible official stating that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate and complete.  
(Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.2.B(11).)
- (d) Within fifteen (15) days of beginning actual construction, the permittee must notify DEQ in writing that construction has begun.  
(Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.5.C(2).)
- (e) The permittee must notify DEQ in writing when construction does not begin within eighteen (18) months of issuance or if construction is suspended for eighteen (18) months or more.  
(Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.5.C(3).)
- (f) Upon the completion of construction or installation of an approved stationary source or modification, and prior to commencing operation, the applicant shall notify the Permit Board that construction or installation was performed in accordance with the approved plans and specifications on file with the Permit Board.  
(Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.5.D(1) and (3).)
- (g) The Permit Board shall be promptly notified in writing of any change in construction from the previously approved plans and specifications or permit. If the Permit Board determines the changes are substantial, it may require the submission of a new application to construct with “as built” plans and specifications. Notwithstanding any provision herein to the contrary, the acceptance of an “as built” application shall not constitute a waiver of the right to seek compliance penalties pursuant to State Law.  
(Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.5.D(2).)

- 6.2 For Emission Point AA-000 (Facility-Wide), the permittee shall submit a semi-annual monitoring report (SMR) in accordance with Condition 6.1(b) that contains the following information (at a minimum):
- (a) The total emission of PM (filterable), PM<sub>10</sub> (filterable + condensable), PM<sub>2.5</sub> (filterable + condensable), CO, NO<sub>x</sub>, VOC, the highest single HAP and total HAPs from all applicable sources in tons on both a monthly and rolling 12-month total basis;
  - (b) A summary of any maintenance action(s) performed on each control device and any periods of time (including date and duration) in which a control device was non-operational while the associated emission units were in operation.
  - (c) A summary for each parametric continuous monitoring and recording system (CMRS) that provides the following information:
    - (1) Operation Outside Established Range – the specific emission point / control equipment, the date, the beginning and ending times, the cause(s) for each excursion; and any corrective action taken as a result of the excursion; and
    - (2) CMRS Downtime – the specific emission point / control equipment, the date, the beginning and ending times, the cause(s) for each downtime event; and any corrective action taken as result of a downtime event.

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

- 6.3 For Emission Point AA-000 (Facility-Wide), the permittee shall notify the MDEQ in writing of the initial start-up of on-site operations no later than fifteen (15) days after the actual start-up date.

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

- 6.4 For Emission Points AB-001, AB-002, AC-001, AC-002, AD-001, and AD-002 the permittee shall submit the following notifications, information, and/or reports for the performance testing required in Condition 5.15:
- (a) A written test protocol shall be submitted at least thirty (30) days prior to the intended test date(s) to ensure that all test methods and procedures are acceptable to the MDEQ. If deemed necessary by the MDEQ, a conference may be required prior to the intended testing date to discuss the proposed test methods and procedures outlined in the performance testing protocol.
  - (b) A notification about the testing event shall be submitted ten (10) days prior to the scheduled date(s) so that an observer may be afforded the opportunity to witness the test(s).

- (c) The test results from a performance test shall be submitted to the MDEQ no later than sixty (60) days after completing the actual test. Additionally, the permittee shall submit a summary of the results of any required periodic and/or parametric monitoring recorded during a performance test.

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

- 6.5 For Emission Points AA-010, AA-011, and AA-012, the permittee shall submit a summary within the semi-annual monitoring report postmarked by January 31 that details the hours of operation for each engine during the preceding calendar year. The report shall include 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 reason for the non-emergency operation.

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