

**STATE OF MISSISSIPPI
AIR POLLUTION CONTROL
TITLE V PERMIT**

TO OPERATE AIR EMISSIONS EQUIPMENT

THIS CERTIFIES THAT

Three Rivers Solid Waste Management Authority
Three Rivers Regional Landfill
1904 Pontotoc Parkway West
Pontotoc, Mississippi
Pontotoc County

has been granted permission to operate air emissions equipment in accordance with emission limitations, monitoring requirements and conditions set forth herein. This permit is issued in accordance with Title V of the Federal Clean Air Act (42 U.S.C.A. § 7401 - 7671) and 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.

Permit Issued: January 25, 2021

Effective Date: As specified herein.

MISSISSIPPI ENVIRONMENTAL QUALITY PERMIT BOARD

Krystal Rudolph

AUTHORIZED SIGNATURE

MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY

Expires: December 31, 2025

Permit No.: 2300-00042

TABLE OF CONTENTS

SECTION 1.	GENERAL CONDITIONS	3
SECTION 2.	EMISSION POINTS & POLLUTION CONTROL DEVICES	13
SECTION 3.	EMISSION LIMITATIONS & STANDARDS.....	14
SECTION 4.	COMPLIANCE SCHEDULE.....	21
SECTION 5.	MONITORING, RECORDKEEPING & REPORTING REQUIREMENTS ..	23
SECTION 6.	ALTERNATIVE OPERATING SCENARIOS	34
SECTION 7.	TITLE VI REQUIREMENTS	35

APPENDIX A LIST OF ABBREVIATIONS USED IN THIS PERMIT

APPENDIX B LIST OF REGULATIONS REFERENCED IN THIS PERMIT

SECTION 1. GENERAL CONDITIONS

1.1 The permittee must comply with all conditions of this permit. Any permit noncompliance constitutes a violation of the Federal Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.A(6)(a).)

1.2 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.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.A(6)(b).)

1.3 This permit and/or any part thereof may be modified, revoked, reopened, and reissued, or terminated for cause. 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. 6.3.A(6)(c).)

1.4 Prior to its expiration, this permit may be reopened in accordance with the provisions listed below.

(a) This permit shall be reopened and revised under any of the following circumstances:

- (1) Additional applicable requirements under the Federal Act become applicable to a major Title V source with a remaining permit term of 3 or more years. Such a reopening shall be completed no later than 18 months after promulgation of the applicable requirement. No such reopening is required if the effective date of the requirement is later than the date on which the permit is due to expire, unless the original permit or any of its terms and conditions has been extended.
- (2) Additional requirements (including excess emissions requirements) become applicable to an affected source under the acid rain program. Upon approval by the Administrator, excess emissions offset plans shall be deemed to be incorporated into the permit.
- (3) The Permit Board or EPA determines that the permit contains a material mistake or that inaccurate statements were made in establishing the emission standards or other terms or conditions of the permit.
- (4) The Administrator or the Permit Board determines that the permit must be revised or revoked to assure compliance with the applicable requirements.

- (b) Proceedings to reopen and issue this permit shall follow the same procedures as apply to initial permit issuance and shall only affect those parts of the permit for which cause to reopen exists. Such reopening shall be made as expeditiously as practicable.
- (c) Reopenings shall not be initiated before a notice of such intent is provided to the Title V source by the DEQ at least 30 days in advance of the date that the permit is to be reopened, except that the Permit Board may provide a shorter time period in the case of an emergency.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.4.G.)

- 1.5 The permittee shall furnish to the DEQ within a reasonable time any information the DEQ may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to the DEQ copies of records required to be kept by the permittee or, for information to be confidential, the permittee shall furnish such records to 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. 6.3.A(6)(e).)

- 1.6 This permit does not convey any property rights of any sort, or any exclusive privilege.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.A(6)(d).)

- 1.7 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. 6.3.A(5).)

- 1.8 The permittee shall pay to the DEQ an annual permit fee. The amount of fee shall be determined each year based on the provisions of regulated pollutants for fee purposes and the fee schedule specified in the Commission on Environmental Quality's order which shall be issued in accordance with the procedure outlined in Regulation 11 Miss. Admin. Code Pt. 2, Ch. 6.

- (a) For purposes of fee assessment and collection, the permittee shall elect for actual or allowable emissions to be used in determining the annual quantity of emissions unless the Commission determines by order that the method chosen by the applicant for calculating actual emissions fails to reasonably represent actual emissions. Actual emissions shall be calculated using emission monitoring data or direct emissions measurements for the pollutant(s); mass balance calculations such as the amounts of the pollutant(s) entering and leaving process equipment and where mass balance calculations can be supported by direct measurement of process parameters,

such direct measurement data shall be supplied; published emission factors such as those relating release quantities to throughput or equipment type (e.g., air emission factors); or other approaches such as engineering calculations (e.g., estimating volatilization using published mathematical formulas) or best engineering judgments where such judgments are derived from process and/or emission data which supports the estimates of maximum actual emission.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.6.A(2).)

- (b) If the Commission determines that there is not sufficient information available on a facility's emissions, the determination of the fee shall be based upon the permitted allowable emissions until such time as an adequate determination of actual emissions is made. Such determination may be made anytime within one year of the submittal of actual emissions data by the permittee.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.6.A(2).)

- (c) If at any time within the year the Commission determines that the information submitted by the permittee on actual emissions is insufficient or incorrect, the permittee will be notified of the deficiencies and the adjusted fee schedule. Past due fees from the adjusted fee schedule will be paid on the next scheduled quarterly payment time.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.6.D(2).)

- (d) The fee shall be due September 1 of each year. By July 1 of each year the permittee shall submit an inventory of emissions for the previous year on which the fee is to be assessed. The permittee may elect a quarterly payment method of four (4) equal payments; notification of the election of quarterly payments must be made to the DEQ by the first payment date of September 1. The permittee shall be liable for penalty as prescribed by State Law for failure to pay the fee or quarterly portion thereof by the date due.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.6.D.)

- (e) If in disagreement with the calculation or applicability of the Title V permit fee, the permittee may petition the Commission in writing for a hearing in accordance with State Law. Any disputed portion of the fee for which a hearing has been requested will not incur any penalty or interest from and after the receipt by the Commission of the hearing petition.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.6.C.)

- 1.9 No permit revision shall be required under any approved economic incentives, marketable permits, emissions trading and other similar programs or processes for changes that are

provided for in this permit.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.A(8).)

- 1.10 Any document required by this permit to be submitted to the DEQ shall contain a certification by a responsible official that states 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. 6.2.E.)

- 1.11 The permittee shall allow the DEQ, or an authorized representative, upon the presentation of credentials and other documents as may be required by law, to perform the following:
- (a) enter upon the permittee's premises where a Title V source is located or emissions-related activity is conducted, or where records must be kept under the conditions of this permit;
 - (b) have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
 - (c) inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit; and
 - (d) as authorized by the Federal Act, sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with the permit or applicable requirements.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.C(2).)

- 1.12 Except as otherwise specified or limited herein, the permittee shall have necessary sampling ports and ease of accessibility for any new air pollution control equipment, obtained after May 8, 1970, and vented to the atmosphere.

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

- 1.13 Except as otherwise specified or limited herein, the permittee shall provide the necessary sampling ports and ease of accessibility when deemed necessary by the Permit Board for air pollution control equipment that was in existence prior to May 8, 1970.

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

- 1.14 Compliance with the conditions of this permit shall be deemed compliance with any applicable requirements as of the date of permit issuance where such applicable requirements are included and are specifically identified in the permit or where the permit

contains a determination, or summary thereof, by the Permit Board that requirements specifically identified previously are not applicable to the source.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.F(1).)

1.15 Nothing in this permit shall alter or affect the following:

- (a) the provisions of Section 303 of the Federal Act (emergency orders), including the authority of the Administrator under that section;
- (b) the liability of an owner or operator of a source for any violation of applicable requirements prior to or at the time of permit issuance;
- (c) the applicable requirements of the acid rain program, consistent with Section 408(a) of the Federal Act.
- (d) the ability of EPA to obtain information from a source pursuant to Section 114 of the Federal Act.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.F(2).)

1.16 The permittee shall comply with the requirement to register a Risk Management Plan if permittee's facility is required pursuant to Section 112(r) of the Act to register such a plan.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.H.)

1.17 Expiration of this permit terminates the permittee's right to operate unless a timely and complete renewal application has been submitted. A timely application is one which is submitted at least six (6) months prior to expiration of the Title V permit. If the permittee submits a timely and complete application, the failure to have a Title V permit is not a violation of regulations until the Permit Board takes final action on the permit application. This protection shall cease to apply if, subsequent to the completeness determination, the permittee fails to submit by the deadline specified in writing by the DEQ any additional information identified as being needed to process the application.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.4.C(2)., R. 6.4.B., and R. 6.2.A(1)(c).)

1.18 The permittee is authorized to make changes within their facility without requiring a permit revision (ref: Section 502(b)(10) of the Act) if:

- (a) the changes are not modifications under any provision of Title I of the Act;
- (b) the changes do not exceed the emissions allowable under this permit;
- (c) the permittee provides the Administrator and the Department with written notification in advance of the proposed changes (at least seven (7) days, or such

other time frame as provided in other regulations for emergencies) and the notification includes:

- (1) a brief description of the change(s),
- (2) the date on which the change will occur,
- (3) any change in emissions, and
- (4) any permit term or condition that is no longer applicable as a result of the change;

(d) the permit shield shall not apply to any Section 502(b)(10) change.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.4.F(1).)

1.19 Should the Executive Director of the Mississippi Department of Environmental Quality declare an Air Pollution Emergency Episode, the permittee will be required to operate in accordance with the permittee's previously approved Emissions Reduction Schedule or, in the absence of an approved schedule, with the appropriate requirements specified in 11 Miss. Admin. Code Pt. 2, Ch. 3., "Regulations for the Prevention of Air Pollution Emergency Episodes" for the level of emergency declared.

(Ref.: 11 Miss. Admin. Code Pt. 2, Ch. 3.)

1.20 Except as otherwise provided herein, a modification of the facility may require a Permit to Construct in accordance with the provisions of Regulations 11 Miss. Admin. Code Pt. 2, Ch. 2., "Permit Regulations for the Construction and/or Operation of Air Emissions Equipment", and may require modification of this permit in accordance with Regulations 11 Miss. Admin. Code Pt. 2, Ch. 6., "Air Emissions Operating Permit Regulations for the Purposes of Title V of the Federal Clean Air Act". 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 51, Subpart I, or 40 CFR 51.166; or
 - (2) the source is approved to use under any permit issued under 40 CFR 52.21 or under regulations approved pursuant to 40 CFR 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 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).)

1.21 Any change in ownership or operational control must be approved by the Permit Board.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.4.D(4).)

1.22 This permit is a Federally approved operating permit under Title V of the Federal Clean Air Act as amended in 1990. All terms and conditions, including any designed to limit the source's potential to emit, are enforceable by the Administrator and citizens under the Federal Act as well as the Commission.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.B(1).)

1.23 Except as otherwise specified or limited herein, the open burning of residential, commercial, institutional, or industrial solid waste, is prohibited. This prohibition does not apply to infrequent burning of agricultural wastes in the field, silvicultural wastes for forest management purposes, land-clearing debris, debris from emergency clean-up operations, and ordnance. Open burning of land-clearing debris must not use starter or auxiliary fuels which cause excessive smoke (rubber tires, plastics, etc.); must not be performed if prohibited by local ordinances; must not cause a traffic hazard; must not take place where there is a High Fire Danger Alert declared by the Mississippi Forestry Commission or Emergency Air Pollution Episode Alert imposed by the Executive Director and must meet the following buffer zones.

- (a) Open burning without a forced-draft air system must not occur within 500 yards of an occupied dwelling.
- (b) Open burning utilizing a forced-draft air system on all fires to improve the combustion rate and reduce smoke may be done within 500 yards of but not within 50 yards of an occupied dwelling.
- (c) Burning must not occur within 500 yards of commercial airport property, private air fields, or marked off-runway aircraft approach corridors unless written approval to conduct burning is secured from the proper airport authority, owner or operator.

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

1.24 Except as otherwise specified herein, the permittee shall be subject to the following provision with respect to emergencies:

- (a) Except as otherwise specified herein, an "emergency" means any situation arising from sudden and reasonably unforeseeable events beyond the control of the source, including acts of God, which situation requires immediate corrective action to restore normal operation, and that causes the source to exceed a technology-based emission limitation under the permit, due to unavoidable increases in emissions attributable to the emergency. An emergency shall not include noncompliance to the extent caused by improperly designed equipment, lack of preventative maintenance, careless or improper operation, or operator error.
- (b) An emergency constitutes an affirmative defense to an action brought for noncompliance with such technology-based emission limitations if the conditions specified in (c) following are met.
- (c) The affirmative defense of emergency shall be demonstrated through properly signed contemporaneous operating logs, or other relevant evidence that include information as follows:
 - (1) an emergency occurred and that the permittee can identify the cause(s) of the emergency;
 - (2) the permitted facility was at the time being properly operated;
 - (3) during the period of the emergency the permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards, or other requirements in the permit; and
 - (4) the permittee submitted notice of the emergency to the DEQ within 2 working days of the time when emission limitations were exceeded due to the emergency. This notice must contain a description of the emergency, any steps

taken to mitigate emissions, and corrective actions taken.

- (d) In any enforcement proceeding, the permittee seeking to establish the occurrence of an emergency has the burden of proof.
- (e) This provision is in addition to any emergency or upset provision contained in any applicable requirement specified elsewhere herein.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.G.)

1.25 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 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 this regulation, 11 Mississippi Administrative Code, Part 2, Chapter 1, the Department will consider establishing source specific emission limitations or work practice standards for startups and shutdowns. Source specific emission limitations or work practice standards established for startups and shutdowns are subject to the requirements prescribed in 11 Miss. Admin. Code Pt. 2, R. 1.10.B(2)(a) through (e).
 - (3) Where an upset as defined in Rule 1.2 occurs during startup or shutdown, see the upset requirements above.

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

- 1.26 The permittee shall comply with all applicable standards for demolition and renovation activities pursuant to the requirements of 40 CFR 61, Subpart M, as adopted by reference in Regulation 11 Miss Admin. Code Pt. 2, R. 1.8. The permittee shall not be required to obtain a modification of this permit in order to perform the referenced activities.

(Ref.: 11 Miss Admin. Code Pt. 2, R. 1.8.)

SECTION 2. EMISSION POINTS & POLLUTION CONTROL DEVICES

Emission Point	Description
AA-001	<p>Municipal Solid Waste Landfill (MSWLF) with a design capacity of 32,973,000 cubic yards (25.2 million cubic meters) which equates to approximately 22.3 million tons (20.2 million megagrams). The landfill is equipped with a gas collection and control system (GCCS) with landfill gas (LFG) routed to one or more of the following control systems:</p> <ul style="list-style-type: none"> (1) a landfill gas (LFG) treatment system for subsequent use by the internal combustion engine(s) for producing electricity (AA-002, AA-005, AA-006, and AA-007), (2) the Leachate Evaporator (AA-009), and/or (3) the flare (AA-003).
AA-002	<p>1,676 brake horsepower (bhp) (4.09 MMBtu/hr/1,200 kW) LFG-fired four stroke, lean burn (4SLB) reciprocating internal combustion engine (RICE), manufactured in 2011. The engine exhaust may be routed to the Leachate Evaporator (AA-009) to provide heat.</p>
AA-003	<p>Candlestick Flare designed for 3,600 scfm, serving as a backup control device to the LFG treatment system and engine(s) for control of LFG emissions</p>
AA-004	<p>Fugitive emissions from onsite paved and unpaved roads</p>
AA-005 (proposed)	<p>1,609 horsepower (hp) (4.09 MMBtu/hr/1,200 kW) LFG-fired four stroke, lean burn (4SLB) reciprocating internal combustion engines (RICE). The engine exhaust may be routed to the Leachate Evaporator (AA-009) to provide heat.</p>
AA-006 (proposed)	<p>1,609 horsepower (hp) (4.09 MMBtu/hr/1,200 kW) LFG-fired four stroke, lean burn (4SLB) reciprocating internal combustion engines (RICE). The engine exhaust may be routed to the Leachate Evaporator (AA-009) to provide heat.</p>
AA-007 (proposed)	<p>1,609 horsepower (hp) (4.09 MMBtu/hr/1,200 kW) LFG-fired four stroke, lean burn (4SLB) reciprocating internal combustion engines (RICE). The engine exhaust may be routed to the Leachate Evaporator (AA-009) to provide heat.</p>
AA-008	<p>Siloxane Removal System pretreating landfill gas prior to combustion in the engine(s). The system consists of reactors in parallel used to absorb siloxanes. When the reactor media is being regenerated via desorption in one reactor, the landfill gas is treated in the other reactor, such that landfill gas is never emitted directly to atmosphere. Only emissions from the regeneration process are periodically emitted from this system.</p>
AA-009	<p>Leachate Evaporator using LFG and/or exhaust from the LFG-fired engine (AA-002), as needed, to evaporate up to 32,000 gallons per day of landfill leachate.</p>

SECTION 3. EMISSION LIMITATIONS & STANDARDS

A. Facility-Wide Emission Limitations & Standards

3.A.1 Except as otherwise specified or limited herein, the permittee shall not cause, permit, or allow the emission of smoke from a point source into the open air from any manufacturing, industrial, commercial or waste disposal process which exceeds forty (40) percent opacity subject to the exceptions provided in (a) & (b).

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

(b) Emissions resulting from soot blowing operations shall be permitted provided such emissions do not exceed 60 percent opacity, and provided further that the aggregate duration of such emissions during any twenty-four (24) hour period does not exceed ten (10) minutes per billion BTU gross heating value of fuel in any one hour.

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

3.A.2 Except as otherwise specified or limited herein, the permittee shall not cause, allow, or permit the discharge into the ambient air from any point source or emissions, any air contaminant of such opacity as to obscure an observer's view to a degree in excess of 40% opacity, equivalent to that provided in Paragraph 3.A.1. This shall not apply to vision obscuration caused by uncombined water droplets.

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

3.A.3 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.)

B. Emission Point Specific Emission Limitations & Standards

Emission Point(s)	Applicable Requirement	Condition Number(s)	Pollutant/Parameter	Limit/Standard
AA-001	40 CFR 60, Subpart WWW Standards of Performance for Municipal Solid Waste Landfills that Commenced Construction, Reconstruction, or Modification on or after May 30, 1991, but before July 18, 2014 40 CFR Part 60.750(a), Subpart WWW	3.B.1	NMOC	Applicability
	40 CFR 60.752(b)(1) and (2), Subpart WWW	3.B.2		50 Mg/yr NMOC emission threshold for control of landfill gas
	40 CFR 60.752(d), Subpart WWW	3.B.3		Landfill Title V Applicability at Closure
	40 CFR 61, Subpart M National Emission Standards for Asbestos 40 CFR 61.140 and 61.154, Subpart M	3.B.5	Asbestos	Applicability
	40 CFR 61.154(a), (c), or (d), Subpart M	3.B.6		Visible emission requirements, or Daily coverage requirements, or Alternative emissions control methods approved by DEQ
	40 CFR 61.154(b), Subpart M	3.B.7		Installation and maintenance of signage and fencing, unless otherwise noted.
AA-002	40 CFR 63, Subpart ZZZZ NESHAP for Stationary Reciprocating Internal Combustion Engines (RICE) 40 CFR Part 63.6580, 63.6585(a) and (c), and 63.6590(a)(2)(iii) and (c)(1), Subpart ZZZZ	3.B.8	HAP	Applicability
	40 CFR 60, Subpart JJJJ Standards of Performance for Stationary Spark Ignition Internal Combustion Engines 40 CFR 60.4230(a)(4)(i) 60.4246, and Table 3, Subpart JJJJ	3.B.9	NO _x , CO, and VOC	Applicability

Emission Point(s)	Applicable Requirement	Condition Number(s)	Pollutant/Parameter	Limit/Standard
AA-002	40 CFR 60.4233(e), 40 CFR 60.4234, and Table 1, Subpart JJJJ	3.B.10	NO _x	2.0 g/hp-hr NO _x or 150 ppmvd @ 15% O ₂
			CO	5.0 g/hp-hr CO or 610 ppmvd @ 15% O ₂
			VOC	1.0 g/hp-hr VOC or 80 ppmvd @ 15% O ₂
AA-002	11 Miss. Admin. Code Pt. 2, R. 1.3.D(1)(a).	3.B.11	PM (filterable)	0.6 lbs/MMBtu
	11 Miss. Admin. Code Pt. 2, R. 1.4.B(2).	3.B.4	H ₂ S	1 grain per 100 standard cubic feet (1 gr/100 scf)
AA-003	11 Miss. Admin. Code Pt. 2, R. 2.2.B(10), as established in the Title V Permit issued October 12, 2010, and modified September 13, 2011	3.B.12	Visible Emissions	No visible emissions except for a period of 5 minutes during any 2 consecutive hours
	11 Miss. Admin. Code Pt. 2, R. 2.2.B(10), as established in the Title V Permit issued October 12, 2010, and modified September 13, 2011	3.B.13	Operating Restriction	Flare operated with a flame present at all times when LFG may be vented to it
	11 Miss. Admin. Code Pt. 2, R. 1.4.B(2).	3.B.4	H ₂ S	1 grain per 100 standard cubic feet (1 gr/100 scf)
AA-009	11 Miss. Admin. Code Pt. 2, R. 2.2.B(10), as established in the Title V Operating Permit issued January 19, 2021	3.B.14	Operating Restriction	The LFG combustion chamber for the Leachate Evaporator shall be operated at all times when LFG may be vented to it
	11 Miss. Admin. Code Pt. 2, R. 1.4.B(2).	3.B.4	H ₂ S	1 grain H ₂ S per 100 standard cubic feet (1 gr/100 scf)

3.B.1 For Emission Point AA-001, the permittee is subject to the Standards of Performance for Municipal Solid Waste Landfills that Commenced Construction, Reconstruction, or Modification on or after May 30, 1991, but before July 18, 2014, 40 CFR 60, Subpart WWW and the applicable requirements of the General Provisions, 40 CFR 60, Subpart A.

(Ref.: 40 CFR Part 60.750(a), Subpart WWW)

3.B.2 For Emission Point AA-001, the permittee shall calculate the nonmethane organic compounds (NMOC) emission rate using the procedures specified in 40 CFR 60.754. The NMOC emission rate shall be recalculated annually, except as provided in Condition 5.C.2.

- (a) If the calculated NMOC emission rate is less than 50 megagrams per year (Mg/yr), the permittee shall:
 - (1) Submit an annual emission report to the DEQ in accordance with Condition 5.C.2, and
 - (2) Recalculate the NMOC emission rate annually using the procedures specified in 40 CFR 60.754(a)(1) and/or 60.754(b) until such time as the calculated NMOC emission rate is equal to or greater than 50 Mg/yr, or the landfill is closed.
- (b) If the NMOC emission rate, upon recalculation required above, is equal to or greater than 50 Mg/yr, the permittee shall:
 - (1) Submit a collection and control system design plan prepared by a professional engineer to DEQ within one (1) year, addressing the requirements of 40 CFR 60.752(b)(2)(i); and
 - (2) Install a collection and control system that captures the gas generated within the landfill as required by 40 CFR 60.752(b)(2)(ii)(A) or (B) and (b)(2)(iii) within thirty (30) months after the first annual report in which the emission rate equals or exceeds 50 Mg/yr, unless Tier 2 or Tier 3 sampling demonstrates that the emission rate is less than 50 Mg/yr, as specified in Condition 5.C.3.

(Ref.: 40 CFR Part 60.752(b)(1) and (2), Subpart WWW)

- 3.B.3 For Emission Point AA-001, in the event the MSW landfill is closed, the permittee is no longer subject to the requirement to maintain an operating permit under 11 Miss. Admin. Code Pt. 2, Ch. 6 for the landfill if the landfill is not otherwise subject to the requirements of 11 Miss. Admin. Code Pt. 2, Ch. 6 and if either of the following conditions are met:
- (a) The landfill was never subject to the requirements for a control system under 40 CFR 60.752(b)(2); or
 - (b) The permittee meets the conditions for control system removal specified in 40 CFR 60.752(b)(2)(v).

(Ref.: 40 CFR 60.752(d), Subpart WWW)

- 3.B.4 For Emission Points AA-002, AA-003, and AA-009, the permittee shall not cause or permit the emissions for any gas stream which contains hydrogen sulfide in excess of one (1) grain per 100 standard cubic feet (gr/100 scf). Gas streams containing hydrogen sulfide in excess of one grain per 100 standard cubic feet shall be incinerated at temperatures of not less than 1,600 °F for a period of not less than 0.5 seconds, or processed in such manner which is equivalent to or more effective for the removal of hydrogen sulfide.

(Ref.: 11 Miss. Admin. Code R. 1.4.B(2).)

3.B.5 For Emission Point AA-001, the permittee is subject to and shall comply with the applicable requirements of the National Emission Standards for Asbestos, 40 CFR 61, Subpart M.

(Ref.: 40 CFR 61.140 and 154, Subpart M)

3.B.6 For Emission Point AA-001, the permittee shall comply with one of the following standards for asbestos-containing waste:

- (a) There must be no visible emissions to the outside air from any active waste disposal site where asbestos-containing waste material has been deposited; or
- (b) At the end of each operating day, or at least once every 24-hour period while the site is in continuous operation, the asbestos-containing waste material that has been deposited at the site during the operating day or previous 24-hour period shall:
 - (1) Be covered with at least 15 centimeters (6 inches) of compacted nonasbestos-containing material, or
 - (2) Be covered with a resinous or petroleum-based dust suppression agent that effectively binds dust and controls wind erosion. Such an agent shall be used in the manner and frequency recommended for the particular dust by the dust suppression agent manufacturer to achieve and maintain dust control. Other equally effective dust suppression agents may be used upon prior approval by the DEQ. For purposes of this paragraph, any used, spent, or other waste oil is not considered a dust suppression agent, or
- (c) Rather than meet the no visible emission requirement of paragraph (a), use an alternative emissions control method that has received prior written approval by the DEQ according to the procedures described in 40 CFR 61.149(c)(2).

(Ref.: 40 CFR 61.154(a), (c), or (d), Subpart M)

3.B.7 For Emission Point AA-001, unless a natural barrier adequately deters access by the general public, either warning signs and fencing must be installed and maintained as described in (a) through (c) below or the permittee shall cover all asbestos-containing material deposited at the site during the operating day or previous 24-hour period with at least 15 centimeters (6 inches) of compacted nonasbestos-containing material.

- (a) Warning signs must be displayed at all entrances and at intervals of 330 feet or less along the property line of the site or along the perimeter of the sections of the site where asbestos-containing waste material is deposited. The warning signs must meet the specific requirements found in 40 CFR 61.154(b)(1)(i)-(iii),
- (b) The perimeter of the disposal site must be fenced in a manner adequate to deter access by the general public,

- (c) Upon request and supply of appropriate information, the DEQ will determine whether a fence or natural barrier adequately deters access by the general public.

(Ref.: 40 CFR 61.154(b), Subpart M)

- 3.B.8 Emission Point AA-002 is subject to the National Emission Standards for Hazardous Air Pollutants (NESHAP) for Stationary Reciprocating Internal Combustion Engines (RICE), 40 CFR Part 63, Subpart ZZZZ.

Emission Point AA-002, is considered a new, non-emergency, spark ignition (SI), 4-stroke lean burn (4SLB) stationary RICE with a site rating greater than 500 HP, located at an area source of HAP emissions. As such, this engine must meet the requirements of 40 CFR 63, Subpart ZZZZ, by meeting the requirements of 40 CFR 60, Subpart JJJJ, for spark ignition engines. No further requirements apply for such engines under Subpart ZZZZ.

(Ref.: 40 CFR Part 63.6580, 63.6585(a) and (c), and 63.6590(a)(2)(iii) and (c)(1), Subpart ZZZZ)

- 3.B.9 For Emission Point AA-002, the permittee is subject to the Standards of Performance for Stationary Spark Ignition Internal Combustion Engines, 40 CFR 60, Subpart JJJJ, and the applicable General Provisions, 40 CFR 63, Subpart A, as noted in Table 3 to Subpart JJJJ.

(Ref.: 40 CFR 60.4230(a)(4)(i), 60.4246, and Table 3, Subpart JJJJ)

- 3.B.10 For Emission Point AA-002, Nitrogen Oxide (NO_x) emissions are limited to 2.0 grams per horsepower-hour (g/hp-hr) or 150 ppmvd @ 15% O₂; Carbon Monoxide (CO) emissions are limited to 5.0 g/hp-hr or 610 ppmvd @ 15% O₂; and Volatile Organic Compound (VOC) emissions are limited to 1.0 g/hp-hr or 80 ppmvd @ 15% O₂. When calculating VOC emissions, emissions of formaldehyde should not be included. The permittee must operate and maintain this engine such that it achieves these emission standards over the entire life of the engine.

(Ref: 40 CFR 60.4233(e), 60.4234, and Table 1, Subpart JJJJ)

- 3.B.11 For Emission Point AA-002, the maximum permissible emission of ash and/or particulate matter (PM) from fossil fuel burning installation of less than 10 million BTU per hour heat input shall not exceed 0.6 pounds per million BTU per hour heat input.

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

- 3.B.12 For Emission Point AA-003, the permittee shall operate the flare with no visible emissions as determined by Method 22 of 40 CFR 60, Appendix A, except for a period not to exceed a total of 5 minutes during any two consecutive hours.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.2.B(10)., as established in the Title V Operating Permit issued October 12, 2010, and modified September 13, 2011)

- 3.B.13 For Emission Point AA-003, the permittee shall operate the flare with a flame present at all times during which landfill gas is routed to it. The presence of a flare pilot flame shall be monitored using a thermocouple or any other equivalent device to detect the presence of a flame.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.2.B(10)., as established in the Title V Operating Permit issued October 12, 2010, and modified September 13, 2011)

- 3.B.14 For Emission Point AA-009, the permittee shall operate the combustion chamber of the leachate evaporator at all times during which landfill gas is routed to it.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.2.B(10)., as established in the Title V Operating Permit issued January 19, 2021)

C. Trivial Activity Emission Limitations & Standards

There are no requirements applicable to the insignificant activities listed in the source's Title V permit application.

D. Work Practice Standards

No work practice standards apply at this time.

SECTION 4. COMPLIANCE SCHEDULE

- 4.1 Unless otherwise specified herein, the permittee shall be in compliance with all requirements contained herein upon issuance of this permit.
- 4.2 Except as otherwise specified herein, the permittee shall submit to the Permit Board and to the Administrator of EPA Region IV a certification of compliance with permit terms and conditions, including emission limitations, standards, or work practices, by January 31 for the preceding calendar year. Each compliance certification shall include the following:
- (a) the identification of each term or condition of the permit that is the basis of the certification;
 - (b) the compliance status;
 - (c) whether compliance was continuous or intermittent;
 - (d) the method(s) used for determining the compliance status of the source, currently and over the applicable reporting period;
 - (e) such other facts as may be specified as pertinent in specific conditions elsewhere in this permit.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.C(5)(a), (c), & (d).)

- 4.3 Upon calculating an uncontrolled NMOC emission rate equal to or greater than 50 Mg/yr, in accordance with Condition 5.B.1, the permittee shall be subject to the applicable requirements of the National Emission Standards for Hazardous Air Pollutants (NESHAP) from Municipal Solid Waste (MSW) Landfills, 40 CFR Part 63, Subpart AAAA, and the applicable General Provisions, 40 CFR Part 63, Subpart A. The MSW Landfill is considered an existing source for purposes of this regulation. The permittee shall comply with the requirements of Subpart AAAA by the date(s) specified in the subpart.

(Ref.: 40 CFR Part 63.1930, 63.1935(a)(3) and 63.1940(c), Subpart AAAA)

- 4.4 Upon calculating an uncontrolled NMOC emission rate equal to or greater than 50 Mg/yr, the permittee shall submit a request for a minor modification to address all applicable requirements of 40 CFR 63, Subpart AAAA. This modification request to reopen the permit shall be submitted within one (1) year of the annual report submittal which calculated an NMOC emission rate equal to or greater than 50 Mg/yr.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.4.G(1).)

- 4.5 For Emission Points AA-005, AA-006, and AA-007, prior to construction, the permittee shall submit a request for a modification or operational flexibility change, as applicable, to

address all applicable state and federal requirements for each engine. Upon certification of construction and prior to startup, the permittee shall be in compliance with all applicable requirements for any engine.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.4.E. and 6.4.F.)

SECTION 5. MONITORING, RECORDKEEPING & REPORTING REQUIREMENTS

A. General Monitoring, Recordkeeping and Reporting Requirements

5.A.1 The permittee shall install, maintain, and operate equipment and/or institute procedures as necessary to perform the monitoring and recordkeeping specified below.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.A(3).)

5.A.2 In addition to the recordkeeping specified below, the permittee shall include with all records of required monitoring information the following:

- (a) the date, place as defined in the permit, and time of sampling or measurements;
- (b) the date(s) analyses were performed;
- (c) the company or entity that performed the analyses;
- (d) the analytical techniques or methods used;
- (e) the results of such analyses; and
- (f) the operating conditions existing at the time of sampling or measurement.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)(b)(1).)

5.A.3 Except as otherwise specified herein, the permittee shall retain records of all required monitoring data and support information 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 for continuous monitoring instrumentation, and copies of all reports required by the permit.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)(b)(2).)

5.A.4 Except as otherwise specified herein, the permittee shall submit reports of any required monitoring by July 31 and January 31 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. 6.2.E.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)(c)(1).)

5.A.5 Except as otherwise specified herein, the permittee shall report all deviations from permit requirements, including those attributable to upsets, the probable cause of such deviations, and any corrective actions or preventive measures taken. Said report shall be made within five (5) days of the time the deviation began.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)(c)(2).)

5.A.6 Except as otherwise specified herein, the permittee shall perform emissions sampling and analysis in accordance with EPA Test Methods and with any continuous emission monitoring requirements, if applicable. All test methods shall be those versions or their equivalents approved by the DEQ and the EPA.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.A(3).)

5.A.7 The permittee shall maintain records of any alterations, additions, or changes in equipment or operation.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.A(3).)

B. Specific Monitoring and Recordkeeping Requirements

Emission Point(s)	Applicable Requirement	Condition Number	Pollutant/Parameter Monitored	Monitoring/Recordkeeping Requirement
AA-001	40 CFR 60.754(a)(2)(ii) and (a)(3), Subpart WWW	5.B.1	NMOC	Determine NMOC emission rate
	40 CFR 60.758(a), Subpart WWW	5.B.2		Recordkeeping
	40 CFR 60.154(e), Subpart M, and 11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)(b)(2).	5.B.3	Asbestos	Waste shipment records
	40 CFR 60.154(f), Subpart M	5.B.4		Asbestos-containing waste disposal records
	40 CFR 60.154(g), Subpart M	5.B.5		Closure requirements
	40 CFR 60.154(i), Subpart M	5.B.6		Records
	11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)(a)(2).	5.B.7	Visible Emissions	Visible emission records
AA-002	40 CFR 60.4243(b)(2)(ii), Subpart JJJJ	5.B.8	NO _x , CO, and VOC	Maintenance records and performance stack test
	40 CFR 60.4244(a)-(g), Subpart JJJJ	5.B.9		Performance stack tests
	40 CFR 60.4245(a)(1), (2), and (4), Subpart JJJJ	5.B.10	Records	General recordkeeping requirements
AA-003	11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)(a)(2).	5.B.11	Flame	Monitor presence of pilot flame and keep records of flare maintenance
AA-009	11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)(a)(2).	5.B.12	Records	Recordkeeping requirements
	11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)(a)(2).	5.B.13	Records	Recordkeeping requirements

5.B.1 For Emission Point AA-001, the permittee shall determine a site-specific NMOC concentration and recalculate the NMOC emission rate using the Tier 2 procedures in 40 CFR 60.754(a)(3) for areas not influenced by the GCCS, but can use either 40 CFR 60.754(b) or 40 CFR 60.754(a)(3) for areas influenced by the GCCS. The permittee shall recalculate the NMOC emission rate using the equations provided in 40 CFR 60.754(a)(1)(i), (a)(1)(ii), and/or 60.754(b) and using the average NMOC concentration from the collected samples instead of the default value.

- (a) If the resulting NMOC emission rate is greater than 50 megagrams per year, the permittee shall either comply with the requirements of Condition 3.B.2(b) or determine the site-specific methane generation rate constant using the Tier 3 procedures specified in 40 CFR 60.754(a)(4).
- (b) If the resulting NMOC mass emission rate is less than 50 megagrams per year, the permittee shall submit a periodic estimate of the emission rate report as provided in Condition 5.C.2 and retest the site-specific NMOC concentration every five (5) years using the methods specified in this section. The previous site-specific NMOC concentration was determined in October 2019. (An additional Tier 2 Test completed on April 1, 2020, demonstrating the NMOC mass emission rate remained less than 50 Mg/yr). Therefore, the next Tier 2 test event, if required, shall be conducted no later than October 2024.

(Ref.: 40 CFR 60.754(a)(2)(ii) and (a)(3), Subpart WWW)

- 5.B.2 For Emission Point AA-001, the permittee shall keep for at least five (5) years up-to-date, readily accessible, on-site records of the maximum design capacity, the current amount of solid waste in-place, and the year-by-year waste acceptance rate. Off-site records may be maintained if they are retrievable within four (4) hours. Either paper copy or electronic formats are acceptable.

(Ref.: 40 CFR 60.758(a), Subpart WWW)

- 5.B.3 For Emission Point AA-001, for all asbestos-containing waste material received, the permittee shall:

- (a) Maintain waste shipment records, using a form similar to that shown in Figure 4 in 40 CFR 61.154, and include the following information:
 - (1) The name, address, and telephone number of the waste generator.
 - (2) The name, address, and telephone number of the transporter(s).
 - (3) The quantity of the asbestos-containing waste material in cubic meters (cubic yards).
 - (4) The presence of improperly enclosed or uncovered waste or any asbestos-containing waste material not sealed in leak-tight containers. Report in writing to the local, State, or EPA Regional office responsible for administering the asbestos NESHAP program for the waste generator (identified in the waste shipment record), and, if different, the DEQ, by the following working day, the presence of a significant amount of improperly enclosed or uncovered waste. Submit a copy of the waste shipment record along with the report.
 - (5) The date of the receipt.

- (b) As soon as possible and no longer than 30 days after receipt of the waste, send a copy of the signed waste shipment record to the waste generator.
- (c) Upon discovering a discrepancy between the quantity of waste designated on the waste shipment records and the quantity actually received, attempt to reconcile the discrepancy with the waste generator. If the discrepancy is not resolved within 15 days after receiving the waste, immediately report in writing to the DEQ for the waste generator (identified in the waste shipment record) and the disposal site. Describe the discrepancy and attempts to reconcile it and submit a copy of the waste shipment record along with the report.
- (d) Retain a copy of all records and reports required by this condition for at least five (5) years.

(Ref.: 40 CFR 61.154(e), Subpart M and 11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)(b)(2).)

- 5.B.4 For Emission Point AA-001, the permittee shall maintain, until closure, records of the location, depth and area, and quantity in cubic meters (or cubic yards) of asbestos-containing waste material within the disposal site on a map or diagram of the disposal area.

(Ref.: 40 CFR 61.154(f), Subpart M)

- 5.B.5 For Emission Point AA-001, upon closure, the permittee shall comply with the provisions of 40 CFR 61.151.

(Ref.: 40 CFR 61.154(g), Subpart M)

- 5.B.6 For Emission Point AA-001, the permittee shall furnish, upon request, and make available during normal business hours for inspection by the DEQ, all records required under 40 CFR 61.154.

(Ref.: 40 CFR 61.154(i), Subpart M)

- 5.B.7 For Emission Point AA-001, if the permittee chooses to comply with the no visible emissions compliance option in Condition 3.B.6(a), the permittee shall conduct daily visible observations for visible emissions at the boundary of the waste disposal site. Upon observing any visible emissions, the permittee shall take immediate corrective measures to eliminate visible emissions. The permittee shall keep a daily log indicating the following:

- (a) Whether asbestos-containing materials were disposed of;
- (b) The results of a visible emissions observation conducted at the boundary of the waste disposal site for each day asbestos-containing materials are disposed; and
- (c) If visible emissions are noted, the corrective measures taken to eliminate visible emissions.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)(a)(2).)

- 5.B.8 For Emission Point AA-002, 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. In addition, the permittee must conduct subsequent performance testing after the initial performance test, every 8,760 hours or three (3) years, whichever comes first, thereafter to demonstrate compliance with the emission limitations in Condition 3.B.10.

(Ref.: 40 CFR 60.4243(b)(2)(ii), Subpart JJJJ)

- 5.B.9 For Emission Point AA-002, the permittee shall follow the procedures, as listed below for conducting performance tests:
- (a) Each performance test must be conducted within 10 percent of 100 percent peak (or the highest achievable) load and according to the requirements in 40 CFR 60.8 and under the specific conditions in Table 2 to 40 CFR 60, Subpart JJJJ.
 - (b) Performance tests may not be conducted during periods of startup, shutdown, or malfunction, as specified in 40 CFR 60.8(c). If the stationary SI internal combustion engine is non-operational, the engine does not have to be started up solely to conduct a performance test; however, the performance test must be conducted immediately upon startup of the engine.
 - (c) Three separate test runs must be conducted for each performance test required in this section, as specified in 40 CFR 60.8(f). Each test run must be conducted within 10 percent of 100 percent peak (or the highest achievable) load and last at least 1 hour.
 - (d) To determine compliance with the NO_x mass per unit output emission limitation, convert the concentration of NO_x in the engine exhaust using Equation 1 of 40 CFR 60.4244(d).
 - (e) To determine compliance with the CO mass per unit output emission limitation, convert the concentration of CO in the engine exhaust using Equation 2 of 40 CFR 60.4244(e).
 - (f) For purposes of 40 CFR 60, Subpart JJJJ, when calculating emissions of VOC, emissions of formaldehyde should not be included. To determine compliance with the VOC mass per unit output emission limitation, convert the concentration of VOC in the engine exhaust using Equation 3 of 40 CFR 60.4244(f).

If the permittee chooses to measure VOC emissions using either Method 18 of 40 CFR 60, Appendix A, or Method 320 of 40 CFR 63, Appendix A, then the permittee has the option of correcting the measured VOC emissions to account for the potential differences in measured values between these methods and Method 25A. The results from Method 18 and Method 320 can be corrected for response factor differences using Equations 4 and 5 of this

section. The corrected VOC concentration can then be placed on a propane basis using Equation 6 of 40 CFR 60.4244(g).

(Ref.: 40 CFR 60.4244(a)-(g), Subpart JJJJ)

- 5.B.10 For Emission Point AA-002, the permittee shall keep the following records:
- (a) A copy of all notifications submitted to comply with Subpart JJJJ and any corresponding supporting information;
 - (b) Records documenting the maintenance conducted on the engine; and
 - (c) Documentation that the engine meets the emission standards in 3.B.10.

(Ref.: 40 CFR 60.4245(a)(1), (2), and (4), Subpart JJJJ)

- 5.B.11 For Emission Point AA-003, the permittee shall monitor the flare for the presence of a pilot flame using a thermocouple or any other equivalent device to detect the presence of a flame. The permittee shall maintain records of the date, time, and duration that emissions are vented to the flare for an hour or longer while the pilot flame is not detected and the corrective measures taken to ensure the pilot flame is operating when the emissions are vented to the flare. The permittee shall also keep records of all maintenance performed on the flare in order to operate the flare in a manner consistent with good air pollution control practices to minimize emissions.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)(a)(2).)

- 5.B.12 For Emission Point AA-009, when landfill gas is routed to the Leachate Evaporator, the permittee shall maintain an hourly average temperature of 1,600 °F. The permittee shall calibrate, maintain, and operate a temperature monitoring device according to the manufacturer's specifications. The temperature monitoring device shall be equipped with a continuous recorder having a minimum accuracy of ± 1 percent of the temperature being measured.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)(a)(2).)

- 5.B.13 For Emission Point AA-009, record the hourly average temperature of the leachate evaporator combustion chamber. Record the date, start time, and duration that the combustion chamber temperature falls below the minimum operating temperature specified in 5.B.12. while landfill gas is vented to it.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)(a)(2).)

C. Specific Reporting Requirements

Emission Point(s)	Applicable Requirement	Condition Number	Pollutant/Parameter Monitored	Reporting Requirement
Facility-wide	11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)(c)(1).	5.C.1	N/A	Semiannual reports
AA-001	40 CFR 60.752(b)(1)(i) and 60.757(b), Subpart WWW	5.C.2	NMOC	NMOC Annual (or Five-Year) Emission Rate Report
	40 CFR 60.757(c)(1) and (c)(2), Subpart WWW	5.C.3		Resume annual reporting
	40 CFR 60.752(b)(1)(ii)(B) and 60.757(d), Subpart WWW	5.C.4		Closure notification
	40 CFR 61.154(h), Subpart M	5.C.5	Asbestos	Submit asbestos waste disposal records
	40 CFR 61.154(j), Subpart M	5.C.6		Submit notification if covered asbestos-containing material is to be disturbed
AA-002	40 CFR 60.4245(d), Subpart JJJJ and 11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)(a)(2).	5.C.7	NO _x , CO, and VOC	Submit performance stack test results
AA-003	11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)(c)(1).	5.C.8	Operating Requirement	Report date, time, duration when LFG was vented for an hour or longer while a flame was not present
AA-005 AA-006 AA-007	40 CFR 60.4245(c), Subpart JJJJ, and 40 CFR 60.7(a)(1) and (3), Subpart A	5.C.9	Notification	Notification of date construction commenced and date of initial startup
AA-009	11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)(c)(1).	5.C.10	Operating Requirement	Report date, time, duration of operation when LFG was vented to the Leachate evaporator combustion chamber while it was not operating or operating below the minimum temperature

5.C.1 For the entire facility, the permittee shall submit a summary of any monitoring conducted during the semiannual period and shall also include any deviations from the permit requirements specified herein or a certification that there were no deviations during the semiannual period.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)(c)(1).)

5.C.2 For Emission Point AA-001, the permittee shall submit an annual NMOC emission rate report in accordance with the semiannual report due by July 31st of each year in accordance with Condition 5.A.4, except as provided for in paragraph (a) or (c) below. The DEQ may request such additional information as may be necessary to verify the reported NMOC emission rate.

- (a) The NMOC emission rate report shall contain an annual or five-year estimate of the NMOC emission rate calculated using the formula and procedures referenced in Condition 5.B.1. If the estimated NMOC emission rate as reported in the annual report to the DEQ is less than 50 Mg/yr in each of the next five (5) consecutive years, the permittee may elect to submit an estimate of the NMOC emission rate for the next five-year period in lieu of the annual report. This estimate shall include the current amount of solid waste-in-place and the estimated waste acceptance rate for each year of the five (5) years for which an NMOC emission rate is estimated. All data and calculations upon which this estimate is based shall be provided to the DEQ. This estimate shall be revised at least once every five (5) years. If the actual waste acceptance rate exceeds the estimated waste acceptance rate in any year reported in the five-year estimate, a revised five-year estimate shall be submitted to the DEQ. The revised estimate shall cover the five-year period beginning with the year in which the actual waste acceptance rate exceeded the estimated waste acceptance rate.
- (b) The NMOC emission rate report shall include all the data, calculations, sample reports and measurements used to estimate the annual or five-year emissions.
- (c) The permittee is exempted from the requirements of paragraphs (a) and (b), after triggering the requirements of Condition 3.B.2(b).

(Ref.: 40 CFR 60.757(b)(1)(i) and 60.757(b), Subpart WWW)

5.C.3 For Emission Point AA-001, the permittee shall submit the collection and control system design plan to the DEQ in accordance with Condition 3.B.2(b)(1) once the NMOC emission rate is equal to or greater than 50 Mg/yr, except as follows:

- (a) The permittee elects to recalculate the NMOC emission rate after Tier 2 NMOC sampling and analysis as provided in 40 CFR 60.754(a)(3) and the resulting NMOC emission rate is less than 50 Mg/yr. Annual periodic reporting shall be resumed using the Tier 2 determined site-specific NMOC concentration, until the calculated emission rate is equal to or greater than 50 Mg/yr per year or the landfill is closed. The revised NMOC emission rate report, with the recalculated emission rate based on NMOC sampling and analysis, shall be submitted within 180 days of the first calculated exceedance of 50 Mg/yr.
- (b) The permittee elects to recalculate the NMOC emission rate after determining a site-specific methane generation rate constant (k) using the Tier 3 procedures in Condition 5.B.1(a) and the resulting NMOC emission rate is less than 50 Mg/yr. Annual periodic reporting shall be resumed using the resulting site-specific methane generation rate constant (k) until such time as the emissions rate calculation results in

an exceedance. The revised NMOC emission rate report based on the provisions of Condition 5.B.1 and the resulting site-specific methane generation rate constant shall be submitted to the DEQ within one (1) year of the first calculated emission rate exceeding 50 Mg/yr.

(Ref.: 40 CFR 60.757(c)(1) and (c)(2), Subpart WWW)

- 5.C.4 For Emission Point AA-001, if the landfill is permanently closed, a closure notification shall be submitted to the DEQ within 30 days of waste acceptance cessation. The DEQ may request additional information as may be necessary to verify that permanent closure has taken place in accordance with the requirements of 40 CFR 258.60. If a closure report has been submitted to the MDEQ, no additional wastes may be placed into the landfill without filing a notification of modification as described under 40 CFR 60.7(a)(4).

(Ref.: 40 CFR 60.752(b)(1)(ii)(B) and 60.757(d), Subpart WWW)

- 5.C.5 For Emission Point AA-001, the permittee shall submit to DEQ, upon closure of the facility, a copy of all records of asbestos waste disposal locations and quantities.

(Ref.: 40 CFR 61.154(h), Subpart M)

- 5.C.6 For Emission Point AA-001, the permittee shall notify the DEQ in writing at least 45 days prior to excavating or otherwise disturbing any asbestos-containing waste material that has been deposited at a waste disposal site and is covered. If the excavation will begin on a date other than the one contained in the original notice, notice of the new start date must be provided to the MDEQ at least ten (10) working days before excavation begins and in no event shall excavation begin earlier than the date specified in the original notification. Include the following information in the notice:

- (a) Scheduled starting and completion dates.
- (b) Reason for disturbing the waste.
- (c) Procedures to be used to control emissions during the excavation, storage, transport, and ultimate disposal of the excavated asbestos-containing waste material. If deemed necessary, the MDEQ may require changes in the emission control procedures to be used.
- (d) Location of any temporary storage site and the final disposal site.

(Ref.: 40 CFR 61.154(j), Subpart M)

- 5.C.7 For Emission Point AA-002, the permittee must submit a written report of the results of each performance test within 60 days following the completion of the performance test.

For all required testing, the permittee shall submit a written test protocol at least thirty (30) days prior to the intended test date(s) to ensure that all test methods and procedures are acceptable to the DEQ. Also, the permittee shall notify the DEQ in writing at least ten (10) days prior to the intended test date(s) so that an observer may be afforded the opportunity to witness the test.

(Ref.: 40 CFR 60.4245(d), Subpart JJJJ and 11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)(a)(2).)

- 5.C.8 For Emission Point AA-003, the permittee shall submit information in the semiannual report required by Condition 5.A.4 summarizing the date, time, and duration that LFG was vented to the flare without a flame present for an hour or longer and any corrective measures taken.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)(c)(1).)

- 5.C.9 For Emission Points AA-005, AA-006, and AA-007, the permittee shall submit written notification of the date construction of any engine is commenced, postmarked no later than 30 days after such date. The permittee shall also submit notification of the actual date of initial startup of the engine, postmarked within 15 days after such date. (Compliance with this condition shall suffice for certification of construction required by 11 Miss. Admin. Code Pt. 2, R. 2.5.D(1).)

If the engine has not been certified by an engine manufacturer to meet the emission standards in 40 CFR 60.4231, the initial notification must include the information in paragraphs (a) through (e) below:

- (a) Name and address of the owner or operator;
- (b) The address of the affected source;
- (c) Engine information including make, model, engine family, serial number, model year, maximum engine power, and engine displacement;
- (d) Emission control equipment; and
- (e) Fuel used.

(Ref.: 40 CFR 60.7(a)(1) and (3), Subpart A, and 40 CFR 60.4245(c), Subpart JJJJ)

- 5.C.10 For Emission Point AA-009, the permittee shall report the date, start time, and duration that landfill gases are routed to the leachate evaporator combustion chamber while it is not operating or the hourly average operating temperature is below the minimum specified in Condition 5.B.12 and any corrective measures taken.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)(c)(1).)

SECTION 6. ALTERNATIVE OPERATING SCENARIOS

6.1 None permitted.

SECTION 7. TITLE VI REQUIREMENTS

The following are applicable or potentially applicable requirements originating from Title VI of the Clean Air Act – Stratospheric Ozone Protection. The full text of the referenced regulations may be found on-line at <http://www.ecfr.gov/> under Title 40, or DEQ shall provide a copy upon request from the permittee.

- 7.1 If the permittee produces, transforms, destroys, imports or exports a controlled substance or imports or exports a controlled product, the permittee shall comply with the applicable requirements of 40 CFR 82, Subpart A – Production and Consumption Controls.
- 7.2 If the permittee performs service on a motor vehicle for consideration when this service involves the refrigerant in the motor vehicle air conditioner (MVAC), the permittee shall comply with the applicable requirements of 40 CFR 82, Subpart B – Servicing of Motor Vehicle Air Conditioners.
- 7.3 The permittee shall comply with the applicable requirements of 40 CFR 82, Subpart E – The Labeling of Products Using Ozone-Depleting Substances, for the following containers and products:
 - (a) All containers in which a class I or class II substance is stored or transported;
 - (b) All products containing a class I substance; and
 - (c) All products directly manufactured with a process that uses a class I substance, unless otherwise exempted by this subpart or, unless EPA determines for a particular product that there are no substitute products or manufacturing processes for such product that do not rely on the use of a class I substance, that reduce overall risk to human health and the environment, and that are currently or potentially available. If the EPA makes such a determination for a particular product, then the requirements of this subpart are effective for such product no later than January 1, 2015.
- 7.4 If the permittee performs any of the following activities, the permittee shall comply with the applicable requirements of 40 CFR 82, Subpart F – Recycling and Emissions Reduction:
 - (a) Servicing, maintaining, or repairing appliances;
 - (b) Disposing of appliances, including small appliances and motor vehicle air conditioners; or
 - (c) Refrigerant reclaimers, technician certifying programs, appliance owners and operators, manufacturers of appliances, manufacturers of recycling and recovery equipment, approved recycling and recovery equipment testing organizations, as well as persons selling, offering for sale, and/or purchasing class I, class II, or non-exempt substitute refrigerants.

- 7.5 The permittee shall be allowed to switch from any ozone-depleting substance to any acceptable alternative that is listed in the Significant New Alternatives Policy (SNAP) program promulgated pursuant to 40 CFR 82, Subpart G – Significant New Alternatives Policy Program. The permittee shall also comply with any use conditions for the acceptable alternative substance.
- 7.6 If the permittee performs any of the following activities, the permittee shall comply with the applicable requirements of 40 CFR 82, Subpart H – Halon Emissions Reduction:
- (a) Any person testing, servicing, maintaining, repairing, or disposing of equipment that contains halons or using such equipment during technician training;
 - (b) Any person disposing of halons;
 - (c) Manufacturers of halon blends; or
 - (d) Organizations that employ technicians who service halon-containing equipment.

APPENDIX A

List of Abbreviations Used In this Permit

11 Miss. Admin. Code Pt. 2, Ch. 1.	Air Emission Regulations for the Prevention, Abatement, and Control of Air Contaminants
11 Miss. Admin. Code Pt. 2, Ch. 2.	Permit Regulations for the Construction and/or Operation of Air Emissions Equipment
11 Miss. Admin. Code Pt. 2, Ch. 3.	Regulations for the Prevention of Air Pollution Emergency Episodes
11 Miss. Admin. Code Pt. 2, Ch. 4.	Ambient Air Quality Standards
11 Miss. Admin. Code Pt. 2, Ch. 5.	Regulations for the Prevention of Significant Deterioration of Air Quality
11 Miss. Admin. Code Pt. 2, Ch. 6.	Air Emissions Operating Permit Regulations for the Purposes of Title V of the Federal Clean Air Act
11 Miss. Admin. Code Pt. 2, Ch. 7.	Acid Rain Program Permit Regulations for Purposes of Title IV of the Federal Clean Air Act
BACT	Best Available Control Technology
CEM	Continuous Emission Monitor
CEMS	Continuous Emission Monitoring System
CFR	Code of Federal Regulations
CO	Carbon Monoxide
COM	Continuous Opacity Monitor
COMS	Continuous Opacity Monitoring System
DEQ	Mississippi Department of Environmental Quality
EPA	United States Environmental Protection Agency
gr/dscf	Grains Per Dry Standard Cubic Foot
HP	Horsepower
HAP	Hazardous Air Pollutant
lbs/hr	Pounds per Hour
M or K	Thousand
MACT	Maximum Achievable Control Technology
MM	Million
MMBTUH	Million British Thermal Units per Hour
NA	Not Applicable
NAAQS	National Ambient Air Quality Standards
NESHAP	National Emissions Standards for Hazardous Air Pollutants, 40 CFR 61 or National Emission Standards for Hazardous Air Pollutants for Source Categories, 40 CFR 63
NMOC	Non-Methane Organic Compounds
NO _x	Nitrogen Oxides
NSPS	New Source Performance Standards, 40 CFR 60
O&M	Operation and Maintenance
PM	Particulate Matter
PM ₁₀	Particulate Matter less than 10 μm in diameter
ppm	Parts per Million
PSD	Prevention of Significant Deterioration, 40 CFR 52
SIP	State Implementation Plan
SO ₂	Sulfur Dioxide
TPY	Tons per Year
TRS	Total Reduced Sulfur
VEE	Visible Emissions Evaluation
VHAP	Volatile Hazardous Air Pollutant
VOC	Volatile Organic Compound

APPENDIX B

List of Regulations Referenced in this Permit

11 Miss. Admin. Code, Part 2, Ch. 1. – Air Emission Regulations for the Prevention, Abatement, and Control of Air Contaminants (Amended November 10, 2016)

11 Miss. Admin. Code, Part 2, Ch. 2. – Permit Regulations for the Construction and/or Operation of Air Emissions Equipment (Amended July 28, 2005)

11 Miss. Admin. Code, Part 2, Ch. 6. – Air Emission Operating Permit Regulations for the Purposes of Title V of the Federal Clean Air Act (Amended June 28, 2012)

40 CFR 82 – Title VI of the Clean Air Act (Stratospheric Ozone Protection)

40 CFR 60, Subpart A – General Provisions

40 CFR 60, Subpart WWW – Standards of Performance for Municipal Solid Waste Landfills that Commenced Construction, Reconstruction, or Modification on or after May 30, 1991, but before July 18, 2014

40 CFR 60, Subpart JJJJ – Standards of Performance for Stationary Spark Ignition Internal Combustion Engines

40 CFR 61, Subpart M – National Emission Standards for Asbestos

40 CFR 63, Subpart A – General Provisions

40 CFR 63, Subpart AAAA – National Emission Standards for Hazardous Air Pollutants: Municipal Solid Waste Landfills

40 CFR 63, Subpart ZZZZ – National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines