STATE OF MISSISSIPPI
AIR POLLUTION CONTROL
TITLE V PERMIT

TO OPERATE AIR EMISSIONS EQUIPMENT

THIS CERTIFIES THAT

Venture Oil and Gas, Inc., Hiwannee Operations
Highway 45 South
Wayne 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:

Effective Date: As specified herein.

MISSISSIPPI ENVIRONMENTAL QUALITY PERMIT BOARD

_____

AUTHORIZED SIGNATURE
MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY

Expires: **Permit No.: 2840-00074**

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APPENDIX A LIST OF ABBREVIATIONS USED IN THIS PERMIT

40 CFR 60, SUBPART JJJJ – STANDARDS OF PERFORMANCE FOR STATIONARY SPARK IGNITION INTERNAL COMBUTION ENGINES
https://www.law.cornell.edu/cfr/text/40/part-60/subpart-JJJJ

40 CFR 60, SUBPART OOOO – STANDARDS OF PERFORMANCE FOR CRUDE OIL AND NATURAL GAS PRODUCTION, TRANSMISSION AND DISTRIBUTION FOR WHICH CONSTRUCTION, MODIFICATION OR RECONSTRUCTION COMMENCED AFTER AUGUST 23, 2011, AND ON OR BEFORE SEPTEMBER 18, 2015.
https://www.law.cornell.edu/cfr/text/40/part-60/subpart-OOOO

40 CFR 60, SUBPART OOOOa – STANDARDS OF PERFORMANCE FOR CRUDE OIL AND NATURAL GAS FACILITIES FOR WHICH CONSTRUCTION, MODIFICATION, OR RECONSTRUCTION COMMENCED AFTER SEPTEMBER 18, 2015
https://www.law.cornell.edu/cfr/text/40/part-60/subpart-OOOOa

40 CFR 63, SUBPART HH-NATIONAL EMISSION STANDARDS FOR HAZARDOUS AIR POLLUTANTS FROM OIL AND NATURAL GAS PRODUCTION FACILITIES
https://www.law.cornell.edu/cfr/text/40/part-63/subpart-HH

40 CFR 63, SUBPART ZZZZ - NATIONAL EMISSION STANDARDS FOR HAZARDOUS AIR POLLUTANTS FOR STATIONARY RECIPROCATING INTERNAL COMBUTION ENGINES
https://www.law.cornell.edu/cfr/text/40/part-63/subpart-ZZZZ

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 Part 51, Subpart I, or 40 CFR 51.166;

(e) an increase in the hours of operation or in the production rate unless such change would be prohibited under any federally enforceable permit condition which was established after January 6, 1975, pursuant to 40 CFR 52.21 or under regulations approved pursuant to 40 CFR 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 Part 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	1,200 HP Natural gas fired 2-stroke lean burn (2SRB) non-emergency engine (Ref. E-2), Pre 1998 Model Year
AA-002	Tank Battery Flare (Ref. E-11) combusting gases from the tanks, truck loading, TGE, and losses from the vapor recovery unit (VRU). The flare pilot is a 0.05 MMBTU/Hr natural gas-fired.
AA-003	Natural Gas Fired Equipment consisting of four (4) line heaters, three (3) flare pilots, two (2) heater treaters, two (2) dehydrators, one (1) reboiler (Ref. E-1)
AA-005	865 HP Natural gas fired 4-stroke rich burn (4SRB) non-emergency engine (Ref. E-4), Pre 1998 Model Year
AA-007	255 HP Natural gas fired 4-stroke rich burn (4SRB) non-emergency engine (Ref. E-6), Pre 1998 Model Year
AA-008	810 HP Natural gas fired 4-stroke lean burn (4SLB) non-emergency engine (Ref. E-7), 1991 Model Year
AA-009	Fugitive Emissions from tank battery (Ref. E-8)
AA-010	Fugitive Emissions from reinjection well (Ref. E-9)
AA-011	Well 17-1 Flare (Ref. E-10). The flare pilot is a 0.05 MMBTU/Hr natural gas-fired.
AA-012	Well 16-13 Flare (Ref. E-12). The flare pilot is a 0.05 MMBTU/Hr natural gas-fired.
AA-013	840 HP Natural Gas fired 4-stroke lean burn (4SLB) non-emergency engine (Ref. E-13), 2015 Model Year
AA-015	840 HP Natural Gas fired 4-stroke lean burn (4SLB) non-emergency engine, 2018 Model Year. *(Emission Point AA-015 is a proposed unit.)*
AA-016	Triethylene glycol dehydrator vented to flare.
AA-017	Truck loading operations vented to flare.
AA-018	Ten (10) 16,800-gallon Oil Condensate Production Storage Tanks at the Central Battery vented to VRU or flare

Emission Point	Description
AA-019	Two (2) 16,800-gallon Salt-Water Storage Tanks at the Central Battery vented to the VRU or flare
AA-020	Well 16-12-2 Emergency Flare. The flare pilot is a 0.05 MMBTU/Hr natural gas-fired.
AA-021	Reinjection Station Emergency Flare. The flare pilot is a 0.05 MMBTU/Hr natural gas-fired.
AA-022	Three (1) 16,800-gallon Oil Condensate Storage Tanks and one (1) 16,800-gallon Salt-Water Storage Tank at Well 16-13-1 vented to VRU or flare

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 Condition 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.)

B. Emission Point Specific Emission Limitations & Standards

Emission Point(s)	Applicable Requirement	Condition Number(s)	Pollutant/ Parameter	Limit/Standard
AA-001 through AA-008, AA-013 and AA-015 *(Engines, Tank Battery Flare, and Misc. Natural Gas Equipment)*	11 Mississippi Admin. Code Pt. 2, R.1.3.D(1)(a).	3.B.1	PM	0.6 pounds per MMBTU heat input
AA-011, AA-012, AA-020, and AA-021 *(Well Flares)*	11 Mississippi Admin. Code Pt. 2, R. 1.3.D(1)(b).	3.B.2	PM	$0.8808 * I^{-0.1667}$
Facility-wide	11 Mississippi Admin. Code Pt. 2, R.1.4.B(2).	3.B.3	H_2S	Hydrogen sulfide emissions shall not exceed 1 grain/100 scf

Emission Point(s)	Applicable Requirement	Condition Number(s)	Pollutant/ Parameter	Limit/Standard
Facility-wide	Federally Enforceable Title V Permit modified June 29, 2015	3.B.4	CO	≤ 249.0 tons per year (PSD Avoidance)
			NO_x	
			SO_2	
		3.B.5	Individual HAP	≤ 9.9 tons per year (Major Source Avoidance)
			Combined HAPs	≤ 24.9 tons per year (Major Source Avoidance)
AA-001, AA-005, AA-007 and AA-008 *(Existing Engines)*	40 CFR 63, Subpart ZZZZ National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines 40 CFR 63.6585(a) and (c), and 63.6590(a)(1)(iii), Subpart ZZZZ	3.B.6	HAPs	Applicability for Existing Engines
AA-013 and AA-015 *(Engine and Proposed Engine)*	40 CFR 63.6590(c)(1), Subpart ZZZZ	3.B.7		Applicability for New Engines
AA-013 *(Engine)*	40 CFR 60, Subpart JJJJ Standards of Performance for Stationary Spark Ignition Internal Combustion Engines 40 CFR 60.4230(a)(4)(i), Subpart JJJJ	3.B.8		Applicability for Rich Burn Engines
AA-015 *(Proposed Engine)*	40 CFR 60.4230(a)(4)(ii), Subpart JJJJ	3.B.9	HAP	Applicability for Lean Burn Engines
AA-013 and AA-015 *(Engine and Proposed Engine)*	40 CFR 60.4233(e) and Table 1, Subpart JJJJ	3.B.10	NO_x	1.0 g/hp-hr or 82 ppmvd @ 15% O_2
		3.B.11	VOC	0.7 g/hp-hr or 60 ppmvd @ 15% O_2
		3.B.12	CO	2.0 g/hp-hr or 270 ppmvd @ 15% O_2

Emission Point(s)	Applicable Requirement	Condition Number(s)	Pollutant/ Parameter	Limit/Standard
AA-013 and AA-015 *(Engine and Proposed Engine)*	40 CFR 60.4243(g), Subpart JJJJ	3.B.13	AFR controller	If an AFR controller(s) will be used, it must be maintained and operated appropriately.
AA-013 *(Engine)*	40 CFR 60, Subpart OOOO Standards of Performance for Crude Oil and Natural Gas Production, Transmission and Distribution for which Construction, Modification or Reconstruction Commenced After August 23, 2011, and on or before September 18, 2015 40 CFR 60.5365(c), Subpart OOOO	3.B.14	GHG and VOC	Applicability
AA-015 *(Proposed Engine)*	40 CFR 60, Subpart OOOOa Standards of Performance for Crude Oil and Natural Gas Facilities for which Construction, Modification or Reconstruction Commenced after September 18, 2015 40 CFR 60.5365a(c), Subpart OOOOa	3.B.15		
AA-016 *(TGE Unit)*	40 CFR 63, Subpart HH National Emissions Standards for Hazardous Air Pollutants from Oil and Natural Gas Production Facilities 40 CFR 63.760(a), (b), and (c), and 63.764(e)(ii), Subpart HH	3.B.16	HAPs	Applicability and Exemptions
AA-018, AA-019, and AA-022 *(Storage Tanks)*	40 CFR 60.5365(e), Subpart OOOO	3.B.17	VOC	Non-applicability

3.B.1 For Emission Points AA-001 through AA-008, AA-013 and AA-015 *(Engines, Tank Battery Flare, and Misc. Natural Gas Equipment),* the maximum permissible emission of ash and/or particulate matter from fossil fuel burning installations 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 Mississippi Admin. Code Pt. 2, R.1.3.D(1)(a).)

3.B.2 For Emission Points AA-011, AA-012, AA-020, and AA-021 *(Well Flares),* the maximum permissible emission of ash and/or particulate matter from fossil fuel burning installations greater than 10 million BTU per hour heat input but less than 10,000 million BTU per hour heat input shall not exceed an emission rate as determined by the relationship:

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

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.B.3 For the entire facility, no person shall cause or permit the emission of any gas stream which contains hydrogen sulfide in excess of one grain per 100 standard cubic feet. Gas streams containing hydrogen sulfide in excess of one grain per 100 standard cubic feet shall be incinerated at temperatures of not less than 1600^{o} F for a period of not less than 0.5 seconds, or processed in such a manner which is more effective for the removal of hydrogen sulfide.

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

3.B.4 For the entire facility, the permittee shall limit facility-wide Carbon Monoxide (CO), Nitrogen Oxides (NO_x), and Sulfur Dioxide (SO_2), each to 249 tons per year, as calculated on a rolling 12-month basis.

(Ref.: Federally Enforceable Title V Permit to Operate modified June 29, 2015)

3.B.5 For the entire facility, the permittee shall limit individual Hazardous Air Pollutant (HAP) emissions to no more than 9.9 tons per year, and total Hazardous Air Pollutant (HAP) emissions to no more than 24.9 tons per year, as calculated on a rolling 12-month basis.

(Ref.: Federally Enforceable Title V Permit to Operate modified June 29, 2015)

3.B.6 For Emission Points AA-001, AA-005, AA-007, and AA-008 *(Engines),* the permittee is subject to 40 CFR 63, Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines and shall comply with the applicable provisions. The engines are existing engines with a site rating greater than 500 HP located at an area source.

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

3.B.7 For Emission Point AA-013 *(Engine)* and upon startup of Emission Point AA-015 *(Proposed Engine)*, the permittee is subject to 40 CFR 63, Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines. These engines shall comply with the provision of Subpart ZZZZ by complying with the provisions of 40 CFR 60, Subpart JJJJ.

(Ref.: 40 CFR 63.6590(c)(1), Subpart ZZZZ)

3.B.8 For Emission Point AA-013 *(Engine)*, the permittee is subject to 40 CFR 60, Subpart JJJJ – Standards of Performance for Stationary Spark Ignition Internal Combustion Engines. Emission Point AA-013 is a 4-stroke lean burn non-emergency engine with a site rating greater than 500 HP located at an area source.

(Ref.: 40 CFR 60.4230(a)(4)(i), Subpart JJJJ)

3.B.9 Upon startup of Emission Point AA-015 *(Engine)*, the permittee is subject to 40 CFR 60, Subpart JJJJ – Standards of Performance for Stationary Spark Ignition Internal Combustion Engines. Emission Point AA-015 is a 4 stroke lean burn engine with a site rating greater than 500 HP located at an area source0.

(Ref.: 40 CFR 60.4230(a)(4)(ii), Subpart JJJJ)

3.B.10 For Emission Point AA-013 *(Engine)* and upon startup of Emission Point AA-015 *(Proposed Engine)*, the permittee shall not cause to be discharged into the atmosphere any emissions which contain nitrogen oxides (NO_x) in excess of 1.0 g/hp-hr or 82 ppmvd at 15% O_2. The permittee may demonstrate compliance by meeting either of the limitations.

(Ref. 40 CFR 60.4233(e) and Table 1 to Subpart JJJJ)

3.B.11 For Emission Point AA-013 *(Engine)* and upon startup of Emission Point AA-015 *(Proposed Engine)*, the permittee shall not cause to be discharged into the atmosphere any emissions which contain volatile organic compounds (VOC) in excess of 0.7 g/hp-hr or 60 ppmvd at 15% O_2. The permittee may demonstrate compliance by meeting either of the limitations.

(Ref. 40 CFR 60.4233(e) and Table 1 to Subpart JJJJ)

3.B.12 For Emission Point AA-013 *(Engine)* and upon startup of Emission Point AA-015 *(Proposed Engine)*, the permittee shall not cause to be discharged into the atmosphere any emissions which contain carbon monoxide (CO) in excess of 2.0 g/hp-hr or 270 ppmvd at 15% O_2. The permittee may demonstrate compliance by meeting either of the limitations.

(Ref. 40 CFR 60.4233(e) and Table 1 to Subpart JJJJ)

3.B.13 For Emission Point AA-013 *(Engine)* and upon startup of Emission Point AA-015 *(Proposed Engine)*, if an air-to-fuel ratio (AFR) controller(s) will be used with the operation of three-way catalysts/non-selective catalytic reduction. The AFR controller must be maintained and operated appropriately in order to ensure proper operation of the engine and control device to minimize emissions at all times.

(40 CFR 60.4243(g), Subpart JJJJ))

3.B.14 For Emission Point AA-013 *(Engine)*, the permittee is subject to 40 CFR 60, Subpart OOOO, Standards of Performance for Crude Oil and Natural Gas Production, Transmission and Distribution for which Construction, Modification or Reconstruction Commenced After August 23, 2011, and on or before September 18, 2015 and shall comply with the applicable provisions.

(Ref.: 40 CFR 60.5365(c), Subpart OOOO)

3.B.15 Upon sstartupof Emission Point AA-015 *(Proposed Engine)*, the permittee is subject to 40 CFR 60, Subpart OOOOa, Standards of Performance for Crude Oil and Natural Gas Facilities for which Construction, Modification or Reconstruction Commenced after September 18, 2015 and shall comply with the applicable provisions.

(Ref.: 40 CFR 60.5365a(c), Subpart OOOOa)

3.B.16 For Emission Point AA-016 *(Triethylene Glycol Dehydrator)*, the permittee is subject to 40 CFR 63, Subpart HH - National Emission Standards for Hazardous Air Pollutants From Oil and Natural Gas Production Facilities, and shall comply with the applicable provisions as an area source operating a triethylene glycol dehydrator. The facility is not required to update its major source determination annually as defined in 40 CFR 63.760(c) as long as the facility maintains compliance with the facility-wide HAP emission limitations described in Condition 3.B.6. The permittee is exempt from the general standards applicable to TGE units and no further requirements for complying with this subpart is required. The permittee shall keep records of the actual average benzene emissions (in terms of benzene emissions per year) as determined in accordance with 40 CFR 63.772(b)(2) to support this exemption.

(Ref.: 40 CFR 63.760(a), (b), and (c), and 63.764(e)(ii), 63.774(d)(1)(ii), Subpart HH)

3.B.17 For Emission Points AA-018, AA-019, and AA-022 (Storage Tanks), the permittee is required to route all vapors to the vapor recovery unit for reinjection or to the flare for combustion.

(Ref.: Federally Enforceable Permit to Construct issued xxxxx)

C. Insignificant and Trivial Activity Emission Limitations & Standards

Applicable Requirement	Condition Number(s)	Pollutant/ Parameter	Limit/Standard
11 Miss. Admin. Code Pt. 2, R. 1.3.D(1)(a).	3.C.1	PM	0.6 lbs/MMBTU
11 Miss. Admin. Code Pt. 2, R. 1.4.A(1).	3.C.2	SO_2	4.8 lbs/MMBTU

3.C.1 The maximum permissible emission of ash and/or particulate matter from fossil fuel burning installations 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.C.2 The maximum discharge of sulfur oxides from any fuel burning installation in which the fuel is burned primarily to produce heat or power by indirect heat transfer shall not exceed 4.8 pounds (measured as sulfur dioxide) per million BTU heat input.

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

D. Work Practice Standards

Emission Point(s)	Applicable Requirement	Condition Number(s)	Pollutant/ Parameter	Limit/Standard
AA-001 *(Existing Engines)*	40 CFR 63.6603 and Item 6 of Table 2d, Subpart ZZZZ	3.D.1	HAPs	Change oil and filter every 4,320 hours of operation or annually, whichever comes first;
				Inspect spark plugs every 4,320 hours of operation or annually, whichever comes first, and replace as necessary; and
				Inspect all hoses and belts every 4,320 hours of operation or annually, whichever comes first, and replace as necessary
AA-005 and AA-008 *(Existing Engines)*	40 CFR 63.6603 and Item 8 (AA-008) and Item 11 (AA-005) of Table 2d, Subpart ZZZZ	3.D.2		Change oil and filter every 2,160 hours of operation or annually, whichever comes first;
				Inspect spark plugs every 2,160 hours of operation or annually, whichever comes first, and replace as necessary; and
				Inspect all hoses and belts every 2,160 hours of operation or annually, whichever comes first, and replace as necessary

Emission Point(s)	Applicable Requirement	Condition Number(s)	Pollutant/ Parameter	Limit/Standard
AA-007 *(Existing Engine)*	40 CFR 63.6603 and Item 10 of Table 2d, Subpart ZZZZ	3.D.3	HAPs	Change oil and filter every 1,440 hours of operation or annually, whichever comes first;
				Inspect spark plugs every 1,440 hours of operation or annually, whichever comes first, and replace as necessary; and
				Inspect all hoses and belts every 1,440 hours of operation or annually, whichever comes first, and replace as necessary
AA-001, AA-005, AA-007 and AA-008 *(Existing Engines)*	40 CFR 63.6605(a) and (b), 63.6625(h) and (j)), Subpart ZZZZ	3.D.4	Good Air Pollution Control Practices	Operate and maintain the engines in a manner consistent with safety and good air pollution control practices for minimizing emissions and option for oil analysis for AA-001, AA-005, and AA-008
AA-013 and AA-015 *(Engines)*	40 CFR 60.4243(b)(2)(ii), Subpart JJJJ	3.D.5		Operations and Maintenance Requirements
AA-013 *(Engine)*	40 CFR 60.5385(a)(1) and (2), and (b) through (d), Subpart OOOO	3.D.6	GHG and VOCs	Replace Rod Packing either before engine has operated for 26,000 hours or every 36 months, whichever comes first.
AA-015 *(Proposed Engine)*	40 CFR 60.5385a(a)(1) and (2), and (b) through (d), Subpart OOOOa			

3.D.1 For Emission Point AA-001*(Existing Engines)*, the permittee shall comply with the following requirements:

(a) Change oil and filter every 4,320 hours of operation or annually, whichever comes first.

(b) Inspect spark plugs every 4,320 hours of operation or annually, whichever comes first, and replace as necessary.

(c) Inspect all hoses and belts every 4,320 hours of operation or annually, whichever comes first, and replace as necessary.

(Ref.: 40 CFR 63.6603 and Item 6, Subpart ZZZZ)

3.D.2 For Emission Points AA-005 and AA-008 *(Existing Engines)*, the permittee shall comply with the following requirements:

(a) Change oil and filter every 2,160 hours of operation or annually, whichever comes first.

(b) Inspect spark plugs every 2,160 hours of operation or annually, whichever comes first, and replace as necessary;

(c) Inspect all hoses and belts every 2,160 hours of operation or annually, whichever comes first, and replace as necessary.

(Ref.: 40 CFR 63.6603 and Item 8 (AA-008) and Item 11 (AA-005) of Table 2d, Subpart ZZZZ)

3.D.3 For Emission Point AA-007 *(Existing Engine)*, the permittee shall comply with the following requirements:

(a) Change oil and filter every 1,440 hours of operation or annually, whichever comes first.

(b) Inspect spark plugs every 1,440 hours of operation or annually, whichever comes first, and replace as necessary;

(c) Inspect all hoses and belts every 1,440 hours of operation or annually, whichever comes first, and replace as necessary.

(Ref.: 40 CFR 63.6603 and Item 10 of Table 2d, Subpart ZZZZ)

3.D.4 For Emission Points AA-001, AA-005, AA-007, and AA-008 *(Existing Engines)*, the permittee shall, at all times, be in compliance with the applicable requirements of Subpart ZZZZ and shall operate and maintain the engine in a manner consistent with safety and good air pollution control practices for minimizing emissions. The permittee shall minimize the engine's time spent at idle during startup and minimize the engine's startup time to a

period needed for appropriate and safe loading of the engine, not to exceed 30 minutes, after which time the emission standards applicable to all times other than startup in Conditions 3.D.1 through 3.D.3 apply. The general duty to minimize emissions does not require the permittee to make any further efforts to reduce emissions if levels required by Subpart ZZZZ have been achieved. Determination of whether such operation and maintenance procedures are being used will be based on information available to the MDEQ which may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source.

For Emission Points AA-001, AA-005, and AA-008, you have the option of utilizing an oil analysis program in order to extend the specified oil change requirement in 3.B.1 and 3.B.2 and shall be performed at the same frequency specified for changing the oil in Conditions 3.B.1 and 3.B.2. The analysis program must at a minimum analyze the following three parameters: Total Acid Number, viscosity, and percent water content. The condemning limits for these parameters are as follows: Total Acid Number increases by more than 3.0 milligrams of potassium hydroxide (KOH) per gram from Total Acid Number of the oil when new; viscosity of the oil has changed by more than 20 percent from the viscosity of the oil when new; or percent water content (by volume) is greater than 0.5. If all of these condemning limits are not exceeded, the engine owner or operator is not required to change the oil. If any of the limits are exceeded, the permittee shall change the oil within 2 business days of receiving the results of the analysis; if the engine is not in operation when the results of the analysis are received, the permittee shall change the oil within 2 business days or before commencing operation, whichever is later. The permittee shall keep records of the parameters that are analyzed as part of the program, the results of the analysis, and the oil changes for the engine. The analysis program must be part of the maintenance plan for the engine.

(Ref.: 40 CFR 40.63.6605(a) and (b), 63.6625(h) and (j))

3.D.5 For Emission Point AA-013 *(Engine)* and upon sstartup of Emission Point AA-015 *(Proposed Engine)*, the permittee shall keep a maintenance plan and records of conducted maintenance and shall, to the extent practicable, maintain and operate the engine in a manner consistent with good air pollution control practice for minimizing emissions.

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

3.D.6 For Emission Point AA-013 (Engine) and upon startup of Emission Point AA-015 *(Proposed Engine)*, the permittee shall replace the reciprocating compressor rod packing according to either paragraph (a) or (b).

(a) On or before the compressor has operated for 26,000 hours. The number of hours of operation shall be continuously monitored beginning upon initial startup of the reciprocating compressor affected facility, or the date of the most recent reciprocating compressor rod packing replacement, whichever is later; or

(b) Prior to 36 months from the date of the most recent rod packing replacement, or 36 months from the date of startup for a new reciprocating compressor for which the rod packing has not yet been replaced.

(Ref.: 40 CFR 60.5385(a)(1) and (2), Subpart OOOO (Emission Point AA-013) and 40 CFR 60.5385a(a)(1) and (2), Subpart OOOOa (Emission Point AA-015))

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).)

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.

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 where a longer duration is specified in an applicable requirement, 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.

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

B. Specific Monitoring and Recordkeeping Requirements

Emission Point(s)	Applicable Requirement	Condition Number	Pollutant/ Parameter Monitored	Monitoring/Recordkeeping Requirement
Facility Wide	Title V Permit to Operate modified June 29, 2015	5.B.1	CO	Monitor and record monthly and rolling 12-month emission rates.
			NO_x	
			SO_2	
			Individual HAP	
			Combined HAPs	
AA-001, AA-005, AA-007 and AA-008 *(Existing Engines)* and AA-013 and AA-015 *(Engine and Proposed Engine)*	40 CFR 60.4243(b)(2)(ii) and 40 CFR 60.4244(a) through (g) and Table 2, Subpart JJJJ, 40 CFR 60.8, Subpart A and 11 Miss. Admin. Code Pt. 2, R.6.3.A(3)(a)(2).)	5.B.2	Performance Testing	Performance Testing, including protocol and observer notification
AA-005 *(Existing Engine)*	40 CFR 63.6603 (f) and 63.6675, Subpart ZZZZ	5.B.3	Population and Human occupancy buildings	The permittee shall make an annual evaluation of the area to determine if the engine still meets the definition of a remote stationary RICE in 40 CFR 63 Subpart ZZZZ.
AA-001, AA-005, AA-007, and AA-008	40 CFR 63.6655 (a) (1) through (3), (d), and (e), Subpart ZZZZ	5.B.4	Recordkeeping	Recordkeeping Requirements for existing engines

Emission Point(s)	Applicable Requirement	Condition Number	Pollutant/ Parameter Monitored	Monitoring/Recordkeeping Requirement
AA-015 *(Proposed Engine)*	40 CFR 60.4244(a) and Table 2, Subpart JJJJ and 40 CFR 60.8, Subpart A	5.B.5	Performance Testing	Initial Performance Test and Notification of Test
AA-015 *(Proposed Engine)*	40 CFR 60.4245(a)(1), (2), and (4), Subpart JJJJ	5.B.6	Notification and Records	Keep records of all notifications; maintenance conducted and documentation of emission tests.
AA-013 *(Engine)*	40 CFR 5385(b), 60.5410(c)(1), (3) and (4), Subpart OOOO	5.B.7	Rod Packing Replacement	Initial Compliance Provisions
AA-015 *(Proposed Engine)*	40 CFR 5385(b), 60.5410a(c)(1), (3) and (4), Subpart OOOOa			
AA-013 *(Engine)*	40 CFR 60.5415(c)(1) through (3), Subpart OOOO	5.B.8		Continuous Compliance
AA-015 *(Proposed Engine)*	40 CFR 60.5415a(c)(1) through (3), Subpart OOOOa			
AA-013 *(Engine)*	40 CFR 60.5420(c)(3), Subpart OOOO	5.B.9		Recordkeeping
AA-015 *(Proposed Engine)*	40 CFR 60.5420a(c)(3), Subpart OOOOa			

5.B.1 For the entire facility, the permittee shall determine the rolling 12-month totals of Nitrogen Oxides, Carbon Monoxide, Sulfur Dioxide, Individual Hazardous Air Pollutants, and Combined Hazardous Air Pollutants for demonstrating compliance with the emission limitations of Conditions 3.B.5 and 3.B.6 of the permit herein. The permittee shall utilize fuel supplier data, performance testing, operating data, and any other data available that may be necessary for the permittee to determine the emission rates. These records shall be kept in accordance with Condition 5.A.3 and made available to MDEQ on request

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

5.B.2 For Emission Points AA-001, AA-005, AA-007, and AA-008 *(Existing Engines)*, the

permittee shall conduct performance testing once per permit term, not to exceed five (5) years between performance testing, and for Emission Points AA-013 and AA-015 (New Engines), the permittee shall conduct performance testing every 3 years or every 8,760 operating hours, whichever comes first. All engines shall be tested within 10 percent of 100 percent peak (or the highest achievable) load for Carbon Monoxide, Nitrogen Oxides, and Volatile Organic Compounds. The permitee must comply with the applicable requirements for performance tests listed in Table 2 of Subpart JJJJ. Prior to performance of the test, the permittee may request alternatives to the test methods listed in Table 2 of Subpart JJJJ , and pursuant to approval by the MDEQ, the alternative test method(s) may be used by the permittee. The test report, including any calculated CO, NO_X, and VOC emissions demonstrating compliance with Condition 5.B.1, shall be submitted to the MDEQ within sixty (60) days after the test has been completed.

A testing protocol shall be submitted at least thirty (30) days prior to the scheduled test date to ensure that all test methods and procedures are acceptable to the MDEQ. In addition, a pretest meeting may be necessary to discuss test methods, operating schedule, and procedures. Also, the MDEQ must be notified prior to the scheduled test date. At least ten (10) days notice should be given so that an observer may be scheduled to witness the test(s).

(Ref. 40 CFR 60.4243(b)(2)(ii) and 40 CFR 60.4244(a) through (g) (Emission Points AA-013 and AA-015) and Table 2, Subpart JJJJ (all engines for testing purposes) and 40 CFR 60.8, Subpart A and 11 Miss. Admin. Code Pt. 2, R.6.3.A(3)(a)(2).)

5.B.3 For Emission Point AA-005, *(Existing Engine)*, the permittee shall evaluate the status of the engine every 12 months and keep records of the initial and annual evaluation of the status of the engine. If the evaluation indicates that the engine no longer meets the definition of a remote stationary RICE as defined in 40 CFR 63.6675, the permittee shall comply with all of the requirements for existing non-emergency SI 4SLB and 4SRB stationary RICE with a site rating of more than 500 HP located at area sources of HAP that are not remote stationary RICE within 1 year of the evaluation.

(Ref.: 40 CFR 63.6603(f) and 63.6675, Subpart ZZZZ)

5.B.4. For Emission Points AA-001, AA-005, AA-007, and AA-008 (Existing Engines), the permitee shall comply with the recordkeeping provision of Subpart ZZZZ as follows:

(a) A copy of each notification and report that you submitted to comply with this Subpart ZZZZ,, including all documentation supporting any Initial Notification or Notification of Compliance Status that you submitted.

(b) Records of the occurrence and duration of each malfunction of operation (i.e., process equipment) or the air pollution control and monitoring equipment.

(c) Records of performance test and performance evaluations as required in 40 CFR 63.10(b)(2)(viii).

(d) Records of the actions taken during periods of malfunction to minimize emissions in accordance with 3.D.4.

(e) Records to show continuous compliance with each emission or operating limitation that applies to you.

(f) Records of the maintenance conducted on the engine in order to demonstrate that you operated and maintained the engine according to your own maintenance plan.

(Ref.: 40 CFR 63.6655(a)(1)-(3), (d), and (e))

5.B.5 Upon startup of Emission Point AA-015 *(Engine)*, the permittee shall perform an initial performance test within 60 days after achieving the maximum production rate at which the engine will be operated, but no later than 180 days after initial startup of the engine. The engine shall be tested 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 that are specified by Table 2 of Subpart JJJJ for CO, NO_X, and VOC. In order to streamline the performance testing timing, the permittee may conduct the subsequent performance test of the engine at the same time as AA-001, AA-005, AA-007, AA-008, and AA-013, as long as Emission Point AA-015 is tested within the initial stack testing time frame. The permittee shall follow the same procedures of 5.B.2 regarding testing protocol and MDEQ observer notification.

(Ref.: 40 CFR 60.4244(a) and Table 2, Subpart JJJJ and 40 CFR 60.8, Subpart A, and 11 Miss. Admin. Code Pt. 2, R.6.3.A(3)(a)(2).)

5.B.6 For Emission Point AA-013 and upon startup of Emission Point AA-015 *(Engine)*, the permittee must keep records of all notifications submitted to comply with Subpart JJJJ; all maintenance conducted on the engine, and documentation that the engine meets the emission standards.

(Ref. 40 CFR 60.4245(a)(1), (2) and (4), Subpart JJJJ) 65

5.B.7 Upon startup of Emission Point AA-015 *(Proposed Engine)*, *(Engine)*, the permittee shall demonstrate initial compliance by continuously monitoring the number of hours of operation or the number of months since the last rod packing replacement.

(Ref.: 40 CFR 60.5385a(b) and 60.5410a(c)(1), (3) and (4), Subpart OOOO) (Emission Point AA-013) and 40 CFR 60.5385a(b) and 60.5410a(c)(1), (3) and (4), Subpart OOOOa) (Emission Point AA-015))

5.B.8 For Emission Point AA-013 *(Engine)*, and upon startup of Emission Point AA-015 *(Engine)*, the permittee shall demonstrate continuous compliance by monitoring the number of hours of operation or the number of months since initial startup or the date of the most recent rod packing replacement, whichever is later.

(Ref.: 40 CFR 60.5415a(c)(1) through (3), Subpart OOOO (Emission Point AA-013) and 40 CFR 60.5415a(c)(1) through (3), Subpart OOOOa (Emission Point AA-015))

5.B.9 For Emission Point AA-013 *(Engine)* and upon startup of Emission Point AA-015 *(Engine)*, the permittee shall maintain all records required to be maintained either onsite or at the nearest local field office for at least 5 years. Any records required to be maintained by Subparts OOOO or Subpart OOOOa that are submitted electronically via the EPA's CDX may be maintained in electronic format. These records shall contain the following:

(a) The cumulative number of hours of operation or number of months since initial startup or the previous replacement of the rod packing, whichever is later.

(b) Records of the date and time of each rod packing replacement.

(c) Records of deviations in cases where the reciprocating compressor was not operated in compliance with the requirements specified in Condition 3.D.6.

(Ref.: 40 CFR 60.5420a(c)(3), Subpart OOOO (Emission Point AA-013) and 40 CFR 60.5420a(c)(3), Subpart OOOOa (Emission Point AA-015))

C. Specific Reporting Requirements

Emission Point(s)	Applicable Requirement	Condition Number	Pollutant/ Parameter Monitored	Reporting
Facility Wide	Title V Permit to Operate modified June 29, 2015	5.C.1	CO	Semiannual Summary of Emissions
			NO_x	
			SO_2	
			Individual HAP	
			Combined HAPs	
AA-001, AA-005, AA-007 and AA-008 *(Existing Engines)*	40 CFR 60.8, Subpart A	5.C.2	Performance Testing	Report Submittal
AA-013 and AA-015 *(Engines and Proposed Engine)*	40 CFR 60.4245(d), Subpart JJJJ			

Emission Point(s)	Applicable Requirement	Condition Number	Pollutant/ Parameter Monitored	Reporting
AA-015 *(Proposed Engine)*	40 CFR 60.4245(c), Subpart JJJJ	5.C.3	Initial Notification	Reporting
AA-013 (*Engine*)	40 CFR 60.5420(b)(1) and (4), Subpart OOOO	5.C.4	Reporting	Annual Report
AA-015 *(Proposed Engine)*	40 CFR 60.5420a(b)(1) and (4), Subpart OOOOa	5.C.4	Reporting	Annual Report
AA-015 *(Proposed Engine)*	40 CFR 60.5420a(b)(11), Subpart OOOOa	5.C.5	Reporting	Annual Report

5.C.1 For the entire facility, the permittee shall submit a semiannual report in accordance with Condition 5.A.4 that includes the information required in Condition 5.B.1. This report shall list the emissions of Carbon Monoxide, Nitrogen Oxide, Volatile Organic Compounds, and Individual and Total Hazardous Air Pollutants for demonstrating compliance with Conditions 3.B.5 and 3.B.6 of the permit herein and include all supporting calculations and data.

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

5.C.2 For Emission Points AA-001, AA-005, AA-007 and AA-008 *(Existing Engines)*, AA-013 *(Engine)* and upon startup for Emission Point AA-015 *(Proposed Engine)*, the permittee shall submit a copy of the results of the performance test required by 5.B.2 and 5.B.4 within 60 days after the test has been completed. IF the permittee utilizes EPA Reference Method 18 to determine VOCs, the permittee shall report all QA/QC data and include the results from Section 8.4 and 11.1.1.4.

(Ref.: 60.4245(d), Subpart JJJJ for Emission Points AA-013 and AA-015, and 40 CFR 60.8, Subpart A for Emission Points AA-001, AA-005, AA-007. and AA-008)

5.C.3 Upon startup for Emission Point AA-015 *(Proposed Engine)*, the permittee shall submit an initial notification as required in 40 CFR 60.7(a)(1). The notification shall include the information in paragraphs (a) through (e).

(a) Name and address of the permittee;

(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 63.4245(c), Subpart JJJJ)

5.C.4 For Emission Point AA-013 *(Engine)* and upon startup of Emission Point AA-015 *(Proposed Engine),* the permittee shall submit annual reports containing the information specified in paragraphs (a) through (c) below. The initial annual report is due no later than 90 days after the end of the initial compliance period as determined according to Condition 5.B.6. Subsequent annual reports are due no later than same date each year as the initial annual report. The permittee may submit one report for both AA-013 and AA-015, provided the report contains all of the information required as specified in paragraphs (a) and (b). The annual report may coincide with title V reports as long as all the required elements of the annual report are included. The permittee may arrange with the DEQ a common schedule on which reports required by this part may be submitted as long as the schedule does not extend the reporting period.

(a) The general information specified in paragraphs (1) through (4) below.

(1) The company name, facility site name associated with the affected facility, US Well ID or US Well ID associated with the affected facility, if applicable, and address of the affected facility. If an address is not available for the site, include a description of the site location and provide the latitude and longitude coordinates of the site in decimal degrees to an accuracy and precision of five (5) decimals of a degree using the North American Datum of 1983.

(2) An identification of each affected facility being included in the annual report.

(3) Beginning and ending dates of the reporting period.

(4) A certification by a certifying official of truth, accuracy, and completeness. This certification shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.

(b) For each reciprocating compressor affected facility, the permittee shall record the number of hours, or the number of months since initial startup or since the previous rod packing replacement, whichever is later.

(c) Records of any deviation required by Condition 5.B.8 that occurred during the reporting period.

(Ref.: 40 CFR 60.5450(b) and (4), (Emission Point AA-013), Subpart OOOO and 60.5420a(b)(1) and (4), (Emission Point AA-015), Subpart OOOOa)

5.C.5 For Emission Point AA-015 (Proposed Engine) upon startup, the permittee must submit reports to the EPA via the CEDRI. (CEDRI can be accessed through the EPA's CDX (https://cdx.epa.gov/).) The permittee must use the appropriate electronic report in CEDRI for this subpart or an alternate electronic file format consistent with the extensible markup language (XML) schema listed on the CEDRI Web site (https://www3.epa.gov/ttn/chief/cedri/). If the reporting form specific to this subpart is not available in CEDRI at the time that the report is due, you must submit the report to the Administrator at the appropriate address listed in 40 CFR 60.4. Once the form has been available in CEDRI for at least 90 calendar days, the permittee must begin submitting all subsequent reports via CEDRI. The reports must be submitted by the deadlines specified 40 CFR Part 60 Subpart OOOOa regardless of the method in which the reports are submitted.

(Ref.: 40 CFR 60.5420a(b)(11), (Emission Point AA-015), Subpart OOOOa)

SECTION 6. ALTERNATIVE OPERATING SCENARIOS

6.1 For Emission Point AA-015 (Proposed Engine), and not withstanding any provisions of 40 CFR 60, Subpart JJJJ, the permittee shall submit a notification of certification of when construction begins within (15) days of prior to beginning actual construction of the engine. Upon completion of construction and prior to operation, the permittee shall submit a notification of completion certification of construction notification for the engine in that the engine was constructed in accordance with the application submitted. If the engine is not installed within 18 months of the reissuance date of the permit herein, the permittee must notify the MDEQ. The permittee shall promptly notify the MDEQ in writing of any changes to the engine from that described in the application submitted and the permit herein. The MDEQ will determine if a new application submittal describing the "as built" engine will be required and evaluate the compliance provisions.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.5.C(2) and (3). and 11 Miss. Admin. Code Pt. 2, R. 2.5.D(1) and (2).)

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://ecfr.gpoaccess.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 Part 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 Part 82, Subpart B – Servicing of Motor Vehicle Air Conditioners.

7.3 The permittee shall comply with the applicable requirements of 40 CFR Part 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 Part 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,

persons selling class I or class II refrigerants or offering class I or class II refrigerants for sale, and persons purchasing class I or class II 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 Part 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 Part 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
NMVOC	Non-Methane Volatile 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