

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

PERMIT


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

THIS CERTIFIES THAT

Enterprise Products Operating LLC
Petal Product Handling Terminal and Underground Storage
285 Leeville Road
Petal, Mississippi
Forrest 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 the Federal Clean Air Act and the provisions of the Mississippi Air and Water Pollution Control Law (Section 49-17-1 et. seq., Mississippi Code of 1972), the regulations and standards adopted and promulgated thereunder, and the State Implementation Plan for operating permits for synthetic minor sources.

MISSISSIPPI ENVIRONMENTAL QUALITY PERMIT BOARD



AUTHORIZED SIGNATURE

MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY

Issued: FEB 12 2020

Permit No.: 0800-00115

Effective Date: As specified herein.

Expires: JAN 31 2025

Section 1.

A. GENERAL CONDITIONS

1. This permit is for air pollution control purposes only.
(Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.1.D.)
2. This permit is a Federally-approved permit to operate a synthetic minor source as described in 11 Miss. Admin. Code Pt. 2, R. 2.4.D.
(Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.4.D.)
3. Any activities not identified in the application are not authorized by this permit.
(Ref.: Miss. Code Ann. 49-17-29 1.b)
4. The knowing submittal of a permit application with false information may serve as the basis for the Permit Board to void the permit issued pursuant thereto or subject the applicant to penalties for constructing or operating without a valid permit.
(Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.2.B(5).)
5. The issuance of a permit does not release the permittee from liability for constructing or operating air emissions equipment in violation of any applicable statute, rule, or regulation of state or federal environmental authorities.
(Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.2.B(7).)
6. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit unless halting or reducing activity would create an imminent and substantial endangerment threatening the public health and safety of the lives and property of the people of this state.
(Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.2.B(15)(a).)
7. The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.
(Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.2.B(15)(c).)
8. The permittee shall allow the Mississippi Department of Environmental Quality Office of Pollution Control and the Mississippi Environmental Quality Permit Board and/or their authorized representatives, upon the presentation of credentials:

- a. To enter upon the permittee's premises where an air emission source is located or in which any records are required to be kept under the terms and conditions of this permit, and
- b. At reasonable times to have access to and copy any records required to be kept under the terms and conditions of this permit; to inspect any monitoring equipment or monitoring method required in this permit; and to sample any air emission.

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

9. Except for data determined to be confidential under the Mississippi Air & Water Pollution Control Law, all reports prepared in accordance with the terms of this permit shall be available for public inspection at the offices of the Mississippi Department of Environmental Quality Office of Pollution Control.

(Ref.: Miss. Code Ann. 49-17-39)

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

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

11. The provisions of this permit are severable. If any provision of this permit, or the application of any provision of this permit to any circumstances, is challenged or held invalid, the validity of the remaining permit provisions and/or portions thereof or their application to other persons or sets of circumstances, shall not be affected thereby.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.1.D(7).)

12. This permit does not authorize a modification as defined in Regulation 11 Miss. Admin. Code Pt. 2, Ch.2., "Permit Regulations for the Construction and/or Operation of Air Emission Equipment." A modification may require a Permit to Construct and a modification of this permit. Modification is defined as "Any physical change in or change in the method of operation of a facility which increases the actual emissions or the potential uncontrolled emissions of any air pollutant subject to regulation under the Federal Act emitted into the atmosphere by that facility or which results in the emission of any air pollutant subject to regulation under the Federal Act into the atmosphere not previously emitted. A physical change or change in the method of operation shall not include:

- a. Routine maintenance, repair, and replacement;
- b. Use of an alternative fuel or raw material by reason of an order under Sections 2(a) and (b) of the Federal Energy Supply and Environmental Coordination Act of 1974

- (or any superseding legislation) or by reason of a natural gas curtailment plan pursuant to the Federal Power Act;
- c. Use of an alternative fuel by reason of an order or rule under Section 125 of the Federal Act;
 - d. Use of an alternative fuel or raw material by a stationary source which:
 - (1) The source was capable of accommodating before January 6, 1975, unless such change would be prohibited under any federally enforceable permit condition which was established after January 6, 1975, pursuant to 40 CFR 52.21 or under regulations approved pursuant to 40 CFR Part 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 Part 51, Subpart I or 40 CFR 51.166; or
 - f. Any change in ownership of the stationary source.

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

B. GENERAL OPERATIONAL CONDITIONS

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

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.10.)

- 2. Any diversion from or bypass of collection and control facilities is prohibited, except as provided for in 11 Miss. Admin. Code Pt. 2, R. 1.10., "Air Emission Regulations for the Prevention, Abatement, and Control of Air Contaminants."

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

- 3. Solids removed in the course of control of air emissions shall be disposed of in a manner such as to prevent the solids from becoming windborne and to prevent the materials from entering State waters without the proper environmental permits.

(Ref.: Miss. Code Ann. 49-17-29 1.a(i and ii))

4. Except as otherwise specified herein, the permittee shall be subject to the following provisions with respect to upsets, startups, and shutdowns.

a. Upsets

- (1) For an upset defined in 11 Miss. Admin. Code Pt. 2, R. 1.2., the Commission may pursue an enforcement action for noncompliance with an emission standard or other requirement of an applicable rule, regulation, or permit. In determining whether to pursue enforcement action, and/or the appropriate enforcement action to take, the Commission may consider whether the source has demonstrated through properly signed contemporaneous operating logs or other relevant evidence the following:
 - (i) An upset occurred and that the source can identify the cause(s) of the upset;
 - (ii) The source was at the time being properly operated;
 - (iii) During the upset the source took all reasonable steps to minimize levels of emissions that exceeded the emission standard or other requirement of an applicable rule, regulation, or permit;
 - (iv) That within 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 by 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.)

5. Compliance Testing: Regarding compliance testing:

- a. The results of any emissions sampling and analysis shall be expressed both in units consistent with the standards set forth in any Applicable Rules and Regulations or this permit and in units of mass per time.
- b. Compliance testing will be performed at the expense of the permittee.
- c. Each emission sampling and analysis report shall include but not be limited to the following:
 - (1) Detailed description of testing procedures;
 - (2) Sample calculation(s);
 - (3) Results; and
 - (4) Comparison of results to all Applicable Rules and Regulations and to emission limitations in the permit.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.6.B(3), (4), and (6).)

C. PERMIT RENEWAL / MODIFICATION / TRANSFER / TERMINATION

6. For renewal of this permit, the applicant shall make application not less than one-hundred eighty (180) days prior to the expiration date of the permit substantiated with current emissions data, test results or reports or other data as deemed necessary by the Mississippi Environmental Quality Permit Board. If the applicant submits a timely and complete application pursuant to this paragraph and the Permit Board, through no fault of the applicant, fails to act on the application on or before the expiration date of the existing permit, the applicant shall continue to operate the stationary source under the terms and conditions of the expired permit, which shall remain in effect until final action on the application is taken by the Permit Board. Permit expiration terminates the source's ability to operate unless a timely and complete renewal application has been submitted.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.8.)

7. The permittee shall furnish to the DEQ within a reasonable time any information the DEQ may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to the DEQ copies of records required to be kept by the permit or, for information claimed to be confidential, the permittee shall furnish such records to the DEQ along with a claim of confidentiality. The permittee may furnish such records directly to the Administrator along with a claim of confidentiality.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.2.B(15)(d).)

8. The permit and/or any part thereof may be modified, revoked, reopened, and reissued, or terminated for cause. Sufficient cause for a permit to be reopened shall exist when an air emissions stationary source becomes subject to Title V. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.2.B(15)(b).)

9. After notice and opportunity for a hearing, this permit may be modified, suspended, or revoked in whole or in part during its term for cause including, but not limited to:
- a. Persistent violation of any terms or conditions of this permit.
 - b. Obtaining this permit by misrepresentation or failure to disclose fully all relevant facts; or
 - c. A change in federal, state, or local laws or regulations that require either a temporary or permanent reduction or elimination of previously authorized air emission.

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

10. This permit may only be transferred upon approval of the Mississippi Environmental Quality Permit Board.

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

SECTION 2
EMISSION POINT DESCRIPTION

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

Emission Point	Description
AA-001	Petal Underground Storage Brine degasser (brine safety combustion device) (Facility Ref. DEGAS)
AA-002	Petal Underground Storage Flare (pilot and waste gas) (Facility Ref. PUGFLARE)
AA-003	Product Handling Terminal Flare (pilot and waste gas) (Facility Ref. PHTFLARE)
AA-004	3.5 MMBTUH propane fired heater (Facility Ref. HTR)
AA-005	100 Horsepower (HP) Cummins propane fired four stroke lean burn (4SLB) spark ignition (SI) emergency generator engine (Facility Ref. EGEN)
AA-006	198 HP Caterpillar diesel fired compression ignition (CI) emergency generator engine (Facility Ref. FIREENG)
AA-007	Tanker truck loading operations (propane and butane) (Facility Ref. PHTTRUCK)
AA-008	Railcar loading operations (propane and butane) (Facility Ref. PHTRAIL)
AA-009	Fugitive component emissions (Facility Ref. FUG)

**SECTION 3
EMISSION LIMITATIONS AND STANDARDS**

Emission Point	Applicable Requirement	Condition Number(s)	Pollutant/Parameter	Limitation/Standard
Facility-Wide	11 Miss. Admin. Code Pt. 2, R. 1.3.A(1) and (2).	3.1	Opacity	Facility-wide opacity limitations
	11 Miss. Admin. Code Pt. 2, R. 1.3.B.	3.2		
	11 Miss. Admin. Code Pt. 2, R. 1.4.B(2).	3.3	H ₂ S	1 grain/100 scf
	11 Miss. Admin. Code Pt. 2, R. 2.2.B(10).	3.4	Throughput	11,001,850 bbl/yr propane, 1,455,777 bbl/yr butane, and 638,300 bbl/yr ethane
	11 Miss. Admin. Code Pt. 2, R. 2.2.B(10).	3.5	VOC	95.0 tpy
	11 Miss. Admin. Code Pt. 2, R. 2.2.B(10).	3.6	HAPs	9.0 tpy for any individual HAP and 24.0 tpy for all combined HAPs
AA-001	11 Miss. Admin. Code Pt. 2, R. 2.2.B(10).	3.7	Operating Restriction	Operational Requirement
AA-002 and AA-003	11 Miss. Admin. Code Pt. 2, R. 2.2.B(10).	3.8	Control Efficiency	≥ 98% control efficiency
AA-001 through AA-006	11 Miss. Admin. Code Pt. 2, R. 1.3.D(1)(a)	3.9	PM	0.6 lb/MMBTU
AA-004	11 Miss. Admin. Code Pt. 2, R.1.4.A(1)	3.10	SO ₂	4.8 lbs/MMBTU
AA-005	11 Miss. Admin. Code Pt. 2, R. 2.2.B(11).	3.11	Fuel Restriction	Combust propane only
AA-006	11 Miss. Admin. Code Pt. 2, R. 2.2.B(10).	3.12	Fuel Restriction	Combust ULSD only
AA-005 and AA-006	NESHAP for Stationary Reciprocating Internal Combustion Engines (RICE), 40 CFR Part 63, Subpart ZZZZ 40 CFR Part 63.6580, Subpart ZZZZ; 40 CFR Part 63.6585(a) and (c), Subpart ZZZZ; and 40 CFR Part 63.6590(a)(1)(iii), Subpart ZZZZ	3.13	HAP	MACT applicability

3.1 For the entire facility, 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. 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.

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

- 3.2 For the entire facility, except as otherwise specified or limited herein, the permittee shall not cause, allow, or permit the discharge into the ambient air from any point source or emissions, any air contaminant of such opacity as to obscure an observer's view to a degree in excess of 40% opacity, equivalent to that provided in Condition 3.1. This shall not apply to vision obscuration caused by uncombined water droplets.

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

- 3.3 For the entire facility, 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 1600°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))

- 3.4 For the entire facility, the permittee shall not exceed a maximum annual throughput of 11,001,850 barrels per year (bbl/yr) propane, 1,455,777 bbl/yr butane, and 638,300 bbl/yr ethane.

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

- 3.5 For the entire facility, the permittee shall limit the emissions of Volatile Organic Compounds (VOC) to no more than 95.0 tons per year for each consecutive 12-month period on a rolling basis.

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

- 3.6 For the entire facility, the permittee shall limit the emissions of any individual hazardous air pollutant (HAP) from both sources to no more than 9.0 tpy for each consecutive 12-month period on a rolling basis. The permittee shall limit the emissions of all combined HAPs from both sources to no more than 24.0 tpy for each consecutive 12-month period on a rolling basis.

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

- 3.7 For Emission Point AA-001, the permittee shall operate the degasser according to the requirements of Condition 4.2 at all times when receiving gas streams.

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

- 3.8 For Emission Points AA-002 and AA-003, in order to demonstrate a control efficiency of at least 98%, the permittee shall operate each control flare according to the requirements of 40 CFR Part 60.18(b) and Condition 4.3 at all times when receiving gas streams.

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

- 3.9 For Emission Points AA-001 through AA-006, the permittee shall not have particulate emissions from fossil fuel burning installations of less than 10 MMBTU/hr heat input that exceeds 0.6 Lb/MMBTU.

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

- 3.10 For Emission Point AA-004, the permittee shall not exceed a maximum discharge of sulfur oxides 4.8 pounds (measured as sulfur dioxide) per million BTU heat input.

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

- 3.11 For Emission Point AA-005, the permittee shall combust propane only.

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

- 3.12 For Emission Point AA-006, the permittee shall combust ultra-low sulfur (≤ 15 ppm) diesel fuel (ULSD) only.

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

- 3.13 For Emission Points AA-005 and AA-006, the permittee is subject to the National Emission Standards for Hazardous Air Pollutants (HAP) for Stationary Combustion Engines, 40 CFR Part 63, Subpart ZZZZ.

Emission Point AA-005 is an existing spark ignition (SI) four stroke lean burn (4SLB) propane-fired emergency engine with a site rating less than 500 HP that is located at an Area Source of HAP emissions. As such, the engine must meet the emergency operational requirements and scheduled maintenance activities of 40 CFR Part 63, Subpart ZZZZ and the General Provisions of Subpart A.

Emission Point AA-006 is an existing compression ignition (CI) emergency engine with a site rating less than 500 HP that is located at an Area Source of HAP emissions. As such, the engine must meet the emergency operational requirements and scheduled maintenance activities of 40 CFR Part 63, Subpart ZZZZ and the General Provisions of Subpart A.

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

SECTION 4 WORK PRACTICES

Emission Point	Applicable Requirement	Condition Number(s)	Pollutant/Parameter	Work Practice
Facility-Wide	11 Miss. Admin. Code Pt. 2, R. 2.2.B(10).	4.1	VOC / HAP	Operate all equipment as efficiently as possible and perform routine maintenance
AA-001	11 Miss. Admin. Code Pt. 2, R. 2.2.B(10).	4.2	VOC / HAP	Degasser operating requirements
AA-002 and AA-003	11 Miss. Admin. Code Pt. 2, R. 2.2.B(10).	4.3	VOC / HAP	Control flare operating requirements
AA-005	40 CFR Part 63.6603(a), Subpart ZZZZ; 40 CFR Part 63.6625(j), Subpart ZZZZ; and Item 5 and Footnotes 1 and 2 of Table 2d of Subpart ZZZZ	4.4	Area Source HAPs	Scheduled Maintenance Activities
AA-006	40 CFR Part 63.6603(a), Subpart ZZZZ; 40 CFR Part 63.6625(i), Subpart ZZZZ; and Item 4 and Footnotes 1 and 2 of Table 2d of Subpart ZZZZ	4.5	Area Source HAPs	Scheduled Maintenance Activities
AA-005 and AA-006	40 CFR Part 63.6605, Subpart ZZZZ	4.6	Area Source HAPs	General Compliance
	40 CFR Part 63.6625(e)(3), Subpart ZZZZ; and Item 9 of Table 6 of Subpart ZZZZ	4.7	Area Source HAPs	General Operating Requirements
	40 CFR Part 63.6625(f), Subpart ZZZZ	4.8	Area Source HAPs	General Operating Requirements
	40 CFR Part 63.6625(h), Subpart ZZZZ	4.9	Area Source HAPs	General Operating Requirements

4.1 For the entire facility, in order to minimize the emissions of air pollutants, the permittee shall operate all air emissions equipment as efficiently as possible. Furthermore, the permittee shall perform routine maintenance on all air emissions equipment such that the equipment may be operated in an efficient manner.

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

4.2 For Emission Point AA-001, the permittee shall operate the degasser according to the requirements specified in paragraphs (a) through (d):

- (a) The degasser shall be operated at all times when emissions may be vented to it.
- (b) The degasser shall be operated and maintained according to the manufacturer's recommendations.
- (c) The degasser shall be operated with no visible emissions as determined by EPA Method 22, except for periods not to exceed a total of five (5) minutes during any two (2) consecutive hours.

- (d) The permittee shall maintain a pilot flame, auto ignitor, or any equivalent device at all times when emissions may be vented to the degasser.

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

4.3 For Emission Points AA-002 and AA-003, the permittee shall operate the control flare according to the requirements specified in paragraphs (a) through (e):

- (a) The control flare shall be operated at all times when emissions may be vented to it.
- (b) The flare shall be operated and maintained according to the manufacturer's recommendations.
- (c) The flare shall be operated with no visible emissions as determined by EPA Method 22, except for periods not to exceed a total of five (5) minutes during any two (2) consecutive hours.
- (d) The permittee shall maintain a flare pilot flame, auto ignitor, or any equivalent device at all times when emissions may be vented to the flare.
- (e) The flare shall only be used with a combustion gas mixture whose net heating value is 300 BTU/scf or greater if the flare is air or steam-assisted. If the flare is non-assisted, the flare shall only be used with a combustion gas mixture whose net heating value is 200 BTU/scf or greater.

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

4.4 For Emission Point AA-005, the permittee shall comply with the following requirements:

- (a) Change oil and filter every 500 hours of operation or annually, whichever comes first, or perform an oil analysis at the same frequency in order to extend the oil change requirement. If the permittee chooses to use oil analysis in an effort to extend the oil/filter change requirement, the results of the analysis must verify the oil still meets the limits contained in (1)–(3) below. If any of these limits are exceeded, the oil must be changed within two business days of receiving the results of the analysis. If the engine is not in operation when the results are received, the oil must be changed within two business days or before commencing operation, whichever is later. The oil analysis program must be included in the engine's maintenance plan required by Condition 4.7.
 - (1) The Total Acid Number increases by more than 3.0 milligrams of potassium hydroxide (KOH) per gram from the Total Acid Number when new.
 - (2) The viscosity of the oil has changed by more than 20 percent from the viscosity of the oil when new.
 - (3) The percent water content (by volume) is greater than 0.5.

- (b) Inspect spark plugs every 1,000 hours of operation or annually, whichever comes first, and replace as necessary;
- (c) Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.

If the engine is operating during an emergency and it is not possible to shut down the engine in order to perform the work practices according to the schedule listed in (a)–(c) above, or if performing the work practice on the required schedule would otherwise pose an unacceptable risk under Federal, State, or local law, the work practice can be delayed until the emergency is over or the unacceptable risk under Federal, State, or local law has abated. The work practice should be performed as soon as practicable after the emergency has ended or the unacceptable risk under Federal, State, or local law has abated.

(Ref.: 40 CFR Part 63.6603(a), 40 CFR Part 63.6625(j), and Item 5 and Footnotes 1 and 2 of Table 2d of 40 CFR Part 63, Subpart ZZZZ)

4.5 For Emission Point AA-006, the permittee shall comply with the following requirements:

- (a) Change oil and filter every 500 hours of operation or annually, whichever comes first, or perform an oil analysis at the same frequency in order to extend the oil change requirement. If the permittee chooses to use oil analysis in an effort to extend the oil/filter change requirement, the results of the analysis must verify the oil still meets the limits contained in (1)–(3) below. If any of these limits are exceeded, the oil must be changed within two business days of receiving the results of the analysis. If the engine is not in operation when the results are received, the oil must be changed within two business days or before commencing operation, whichever is later. The oil analysis program must be included in the engine’s maintenance plan required by Condition 4.7.
 - (1) Total Base Number is less than 30 percent of the Total Base Number of the oil when new.
 - (2) Viscosity of the oil has changed by more than 20 percent from the viscosity of the oil when new.
 - (3) Percent water content (by volume) is greater than 0.5.
- (b) Inspect air cleaner every 1,000 hours of operation or annually, whichever comes first, and replace as necessary;
- (c) Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.

If the engine is operating during an emergency and it is not possible to shut down the engine in order to perform the work practices according to the schedule listed in (a)–(c) above, or if performing the work practice on the required schedule would otherwise pose an unacceptable risk under Federal, State, or local law, the work practice can be delayed until the emergency is over or the unacceptable risk under Federal, State, or local law has abated. The work practice should be performed as soon as practicable after the emergency has ended or the unacceptable risk under Federal, State, or local law has abated.

(Ref.: 40 CFR Part 63.6603(a), 40 CFR Part 63.6625(i), and Item 4 and Footnotes 1 and 2 of Table 2d of 40 CFR Part 63, Subpart ZZZZ)

- 4.6 For Emission Points AA-005 and AA-006, the permittee shall, at all times, be in compliance with the applicable requirements of 40 CFR Part 63, Subpart ZZZZ, and operate and maintain the engines, including associated monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. 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.

(Ref.: 40 CFR Part 63.6605, Subpart ZZZZ)

- 4.7 For Emission Points AA-005 and AA-006, the permittee shall operate and maintain each engine according to the manufacturer's emission-related written instructions or develop and follow a maintenance plan which provides to the extent practicable for the maintenance and operation of the engines in a manner consistent with good air pollution practice for minimizing emissions.

(Ref.: 40 CFR Part 63.6625(e)(3) and Item 9 of Table 6 of 40 CFR Part 63, Subpart ZZZZ)

- 4.8 For Emission Points AA-005 and AA-006, the permittee shall install and operate a non-resettable hour meter on each emergency engine.

(Ref: 40 CFR Part 63.6625(f), Subpart ZZZZ)

- 4.9 For Emission Points AA-005 and AA-006, the permittee shall minimize each 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 non-startup emission limitations apply.

(Ref.: 40 CFR Part 63.6625(h), Subpart ZZZZ)

**SECTION 5
MONITORING AND RECORDKEEPING REQUIREMENTS**

Emission Point	Applicable Requirement	Condition Number(s)	Pollutant/Parameter	Monitoring/Recordkeeping Requirement
Facility-Wide	11 Miss. Admin. Code Pt. 2, R. 2.9.	5.1	Recordkeeping	Maintain records for a minimum of 5 years.
	11 Miss. Admin. Code Pt. 2, R. 2.2.B(11).	5.2	Hours	Keep records of emissions and operations
AA-001	11 Miss. Admin. Code Pt. 2, R. 2.2.B(11).	5.3	VOC and HAPs	Monitor degasser operations
	11 Miss. Admin. Code Pt. 2, R. 2.2.B(11).	5.4	VOC and HAPs	Keep records of degasser operations
AA-002 and AA-003	11 Miss. Admin. Code Pt. 2, R. 2.2.B(11).	5.5	VOC and HAPs	Monitor flare operations
	11 Miss. Admin. Code Pt. 2, R. 2.2.B(11).	5.6	VOC and HAPs	Keep records of flare operations
AA-004 through AA-006	11 Miss. Admin. Code Pt. 2, R. 2.2.B(11).	5.7	Fuel	Monitor and keep records of fuel combusted
AA-005 and AA-006	40 CFR Part 63.6655(e)(2) and (3), Subpart ZZZZ	5.8	Area Source HAPs	Keep records of the maintenance
	40 CFR Part 63.6660, Subpart ZZZZ	5.9	Area Source HAPs	General recordkeeping requirement
	40 CFR Part 63.6655(f), Subpart ZZZZ	5.10	Hours	Monitor and keep records of hours of and reason for operation
	40 CFR Part 63.6640(f), Subpart ZZZZ and 40 CFR Part 63.6675, Subpart ZZZZ	5.11	General Operating Condition	Emergency operational requirements

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

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

5.2 For the entire facility, in order to demonstrate compliance with the limitations specified in Section 3, the permittee shall maintain the following records:

- (a) The amount of VOC, each individual HAP, and total HAPs emitted, in tons per year, on a monthly basis and for each consecutive 12-month period on a rolling basis for each emission source. This record shall demonstrate compliance utilizing gas flow measurement, gas analysis, calculations, and any other relevant information.
- (b) The barrels of butane, propane, and ethane loaded via truck and rail on a monthly basis and for each consecutive 12-month period on a rolling basis.
- (c) The volume (cubic feet) of gas flared from Emission Points AA-002 and AA-003, on a monthly basis and for each consecutive 12-month period on a rolling basis.
- (d) Records of the monthly visible emission observations on Emission Points AA-002 and AA-003.

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

5.3 For Emission Point AA-001, the permittee shall comply with the following monitoring requirements outlined in paragraphs (a) through (c):

- (a) The permittee shall continuously monitor and record the presence of the degasser pilot flame by use of a thermocouple or any other equivalent device to detect the presence of a flame; or
- (b) The permittee shall continuously maintain and operate an auto-igniter system on the degasser to ensure a flame is immediately restored when emissions are being sent to the degasser. At a minimum, the permittee shall comply with the following:
 - (1) The auto-igniter system shall be an electric arc ignition system. The electric arc ignition system shall pulse continually and a device shall be installed and used to continuously monitor that the electric arc ignition system is operational.
 - (2) The auto-igniter system shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manuals.
 - (3) The auto-igniter system must be equipped with a malfunction alarm and remote notification system that alerts facility personnel if the auto ignition system fails to light the flame.
 - (4) If the auto-igniter system fails to light the flame, it must be relit as soon as safely possible and the auto-igniter system must be repaired or replaced as soon as practicable.

(5) Physical inspections of all equipment associated with the auto-igniter system shall be performed quarterly. The permittee shall respond to any observation of any auto-igniter failure and ensure the equipment is returned to proper operation as soon as practicable and safely possible after an observation or an alarm sounds.

- (c) The permittee shall perform monthly visual observations of the degasser for a minimum of five (5) minutes during operation using EPA Method 22. If smoking is observed, corrective actions shall be taken. To demonstrate compliance with the visible emission limitation in Condition 4.2(c), the permittee shall perform a follow-up visual observation for a period of two (2) hours using EPA Method 22 immediately after the appropriate corrective action(s) has been made.

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

5.4 For Emission Point AA-001, the permittee shall comply with the following recordkeeping requirements outlined in paragraphs (a) through (c):

- (a) The permittee shall keep records of all maintenance performed on the degasser in order to operate the degasser in accordance with the manufacturer's recommendation.
- (b) The permittee shall maintain hourly records of the thermocouple or equivalent device output demonstrating the presence of a flame in the degasser whenever the degasser is in operation or operate an auto-ignition system. If the permittee is complying with the flame detection requirement using the visual observation requirement, then the permittee shall maintain daily records which document that the observation occurred, the date and time of the observation, whether or not the flame was present, and what, if any, corrective actions were taken.
- (c) The permittee shall maintain records of all visual observations, the nature and cause of any visible emissions, any corrective action(s) taken, the date and time when visual observations were conducted and any corrective action(s) was taken.

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

5.5 For Emission Points AA-002 and AA-003, the permittee shall comply with the following monitoring requirements outlined in paragraphs (a) through (d):

- (a) The permittee shall continuously monitor and record the presence of the flare pilot flame by use of a thermocouple or any other equivalent device to detect the presence of a flame; or

- (b) The permittee shall continuously maintain and operate an auto-igniter system on the flare to ensure a flame is immediately restored when emissions are being sent to the flare. At a minimum, the permittee shall comply with the following:
- (1) The auto-igniter system shall be an electric arc ignition system. The electric arc ignition system shall pulse continually and a device shall be installed and used to continuously monitor that the electric arc ignition system is operational.
 - (2) The auto-igniter system shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manuals.
 - (3) The auto-igniter system must be equipped with a malfunction alarm and remote notification system that alerts facility personnel if the auto ignition system fails to light the flame.
 - (4) If the auto-igniter system fails to light the flame, it must be relit as soon as safely possible and the auto-igniter system must be repaired or replaced as soon as practicable.
 - (5) Physical inspections of all equipment associated with the auto-igniter system shall be performed quarterly. The permittee shall respond to any observation of any auto-igniter failure and ensure the equipment is returned to proper operation as soon as practicable and safely possible after an observation or an alarm sounds.
- (c) The permittee shall perform monthly visual observations of the flare for a minimum of five (5) minutes during operation using EPA Method 22. If smoking is observed, corrective actions shall be taken. To demonstrate compliance with the visible emission limitation in Condition 4.3(c), the permittee shall perform a follow-up visual observation for a period of two (2) hours using EPA Method 22 immediately after the appropriate corrective action(s) has been made.
- (d) In order to demonstrate compliance with Condition 4.3(e), the permittee shall perform an annual waste gas analysis to determine the net heating value of the gas being combusted by the flare. Each gas analysis shall include the following properties: hydrogen sulfide concentration, sulfur content, methane concentration (by volume), gross and net heating value, molecular weight, specific gravity, and speciated VOC components (minimally to C6+)

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

- 5.6 For Emission Points AA-002 and AA-003, the permittee shall comply with the following recordkeeping requirements outlined in paragraphs (a) through (d):

- (a) The permittee shall keep records of all maintenance performed on the flare in order to operate the flare in accordance with the manufacturer's recommendation.
- (b) The permittee shall maintain hourly records of the thermocouple or equivalent device output demonstrating the presence of a flame in the control flare whenever the flare is in operation or operate an auto-ignition system. If the permittee is complying with the flame detection requirement using the visual observation requirement, then the permittee shall maintain daily records which document that the observation occurred, the date and time of the observation, whether or not the flame was present, and what, if any, corrective actions were taken.
- (c) The permittee shall maintain records of all visual observations, the nature and cause of any visible emissions, any corrective action(s) taken, the date and time when visual observations were conducted and any corrective action(s) was taken.
- (d) The permittee shall maintain records of the annual waste gas analysis performed to determine the net heating value of the gas being combusted.

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

- 5.7 For Emission Points AA-004, AA-005, and AA-006, the permittee shall monitor and record the type and quantity of fuel used. These records shall be maintained in accordance with Condition 5.1.

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

- 5.8 For Emission Points AA-005 and AA-006, the permittee must keep records of the maintenance conducted on the stationary RICE in order to demonstrate that the stationary RICE and after-treatment control device (if any) were operated and maintained according to the permittee's maintenance plan.

(Ref.: 40 CFR Part 63.6655(e)(2) and (3), Subpart ZZZZ)

- 5.9 For Emission Points AA-005 and AA-006, the permittee must keep records in a form suitable and readily available for expeditious review according to 40 CFR Part 63.10(b)(1). Each record must be kept for 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record. Each record must be kept readily accessible in hard copy or electronic form for at least 5 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to 40 CFR Part 63.10(b)(1).

(Ref.: 40 CFR Part 63.6660, Subpart ZZZZ)

- 5.10 For Emission Point Points AA-005 and AA-006, the permittee shall keep records of the hours of operation of the engine recorded using each engine's non-resettable hour meter. These records must indicate how many hours are spent in emergency operation, including what classified the operation as an emergency, and how many hours are spent in nonemergency operation. Records should also include any time spent operating for the purposes identified in Permit Condition 5.11(b) and (c), and should contain an explanation of the emergency situation, date, and start and end time of engine operation for this purpose.

(Ref.: 40 CFR Part 63.6655(f), Subpart ZZZZ)

- 5.11 For Emission Points AA-005 and AA-006, the permittee shall operate the emergency engine according to the requirements below:

- (a) There is no limit on the use of the engine during emergency situations.
- (b) The engine may be operated for a maximum of 100 hours per calendar year for maintenance checks and readiness testing, provided that the tests are recommended by federal, state, or local government, the manufacturer, the vendor, the regional transmission organization or equivalent balancing authority and transmission operator, or the insurance company associated with the engine. The permittee may petition the MDEQ for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the permittee maintains records indicating that federal, state, or local standards require maintenance and testing of emergency RICE beyond 100 hours per calendar year. Any operation for non-emergency situations as allowed by paragraph (c) counts as part of the 100 hours per calendar year allowed by this paragraph.
- (c) The engine may be operated for up to 50 hours per calendar year in non-emergency situations. The 50 hours of operation in non-emergency situations are counted as part of the 100 hours per calendar year for maintenance and testing. The 50 hours per year for non-emergency situations cannot be used for peak shaving or non-emergency demand response, or to generate income for a facility to supply power to an electric grid or otherwise supply power as part of a financial arrangement with another entity.

If the emergency engine is not operated according to the requirements in (a) - (c) above, the engine will not be considered an emergency engine under 40 CFR Part 63 Subpart ZZZZ t and will need to meet any applicable requirements for a non-emergency engine.

(Ref.: 40 CFR Part 63.6640(f) and 63.6675, Subpart ZZZZ)

SECTION 6 REPORTING REQUIREMENTS

Emission Point	Applicable Requirement	Condition Number(s)	Reporting Requirement
Facility-Wide	11 Miss. Admin. Code Pt. 2, R. 2.2.B(11).	6.1	Report permit deviations within five (5) working days.
	11 Miss. Admin. Code Pt. 2, R. 2.2.B(11).	6.2	Submit certified annual monitoring report.
	11 Miss. Admin. Code Pt. 2, R. 2.2.B(11).	6.3	All documents submitted to MDEQ shall be certified by a Responsible Official.

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

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

6.2 Except as otherwise specified herein, the permittee shall submit a certified annual synthetic minor monitoring report postmarked no later than 31st of January for the preceding calendar year. This report shall address any required monitoring specified in the permit. Where no monitoring data is required to be reported and/or there are no deviations to report, the report shall contain the appropriate negative declaration. All instances of deviations from permit requirements must be clearly identified in the report. Where no monitoring data is required to be reported and/or there are no deviations to report, the report shall contain the appropriate negative declaration. The report shall include the following:

- (a) The amount of VOC, each individual HAP, and total HAPs emitted, in tons per year, on a monthly basis and for each consecutive 12-month period on a rolling basis for each emission source. This record shall demonstrate compliance utilizing gas flow measurement, gas analysis, calculations, and any other relevant information.
- (b) The barrels of butane, propane, and ethane loaded via truck and rail on a monthly basis and for each consecutive 12-month period on a rolling basis.
- (c) The volume (cubic feet) of gas flared from Emission Points AA-002 and AA-003, on a monthly basis and for each consecutive 12-month period on a rolling basis.
- (d) Records of the monthly visible emission observations on Emission Points AA-001, AA-002 and AA-003 and details of any accompanying corrective and preventative actions taken.

- (e) Details of any periods where the pilot flame was not present or the auto-igniter system was not operational, including date, start and end times, duration, cause, corrective and preventative actions taken, and whether or not any gases were being vented to the flare and degasser;

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

- 6.3 Any document required by this permit to be submitted to the MDEQ shall contain a certification signed by a responsible official stating that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate and complete.

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