

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

TO OPERATE AIR EMISSIONS EQUIPMENT

THIS CERTIFIES THAT

DAK Americas Mississippi Inc
3303 Port and Harbor Drive
Port Bienville Industrial Park
Bay St. Louis, Mississippi
Hancock 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: September 21, 2022

Effective Date: As specified herein.

MISSISSIPPI ENVIRONMENTAL QUALITY PERMIT BOARD

Krystal Rudolph

AUTHORIZED SIGNATURE

MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY

Expires: August 31, 2027

Permit No.: 1000-00039

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APPENDIX A LIST OF ABBREVIATIONS USED IN THIS PERMIT

SECTION 1. GENERAL CONDITIONS

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

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

1.2 It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

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

1.3 This permit and/or any part thereof may be modified, revoked, reopened, and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition.

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

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

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

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

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

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

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

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

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

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

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

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.A(5).)

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.2.E.)

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

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

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

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

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

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

- 1.14 Compliance with the conditions of this permit shall be deemed compliance with any applicable requirements as of the date of permit issuance where such applicable requirements are included and are specifically identified in the permit or where the permit contains a determination, or summary thereof, by the Permit Board that requirements specifically identified previously are not applicable to the source.

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

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

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

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

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

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

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

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

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

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

- (1) a brief description of the change(s),
 - (2) the date on which the change will occur,
 - (3) any change in emissions, and
 - (4) any permit term or condition that is no longer applicable as a result of the change;
- (d) the permit shield shall not apply to any Section 502(b)(10) change.

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

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

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

- 1.20 Except as otherwise provided herein, a modification of the facility may require a Permit to Construct in accordance with the provisions of Regulations 11 Miss. Admin. Code Pt. 2, Ch. 2., "Permit Regulations for the Construction and/or Operation of Air Emissions Equipment," and may require modification of this permit in accordance with Regulations 11 Miss. Admin. Code Pt. 2, Ch. 6., "Air Emissions Operating Permit Regulations for the Purposes of Title V of the Federal Clean Air Act." Modification is defined as [a]ny physical change in or change in the method of operation of a facility which increases the actual emissions or the potential uncontrolled emissions of any air pollutant subject to regulation under the Federal Act emitted into the atmosphere by that facility or which results in the emission of any air pollutant subject to regulation under the Federal Act into the atmosphere not previously emitted. A physical change or change in the method of operation shall not include:

- (a) routine maintenance, repair, and replacement;
- (b) use of an alternative fuel or raw material by reason of an order under Sections 2 (a) and (b) of the Federal Energy Supply and Environmental Coordination Act of 1974 (or any superseding legislation) or by reason of a natural gas curtailment plan pursuant to the Federal Power Act;
- (c) use of an alternative fuel by reason of an order or rule under Section 125 of the Federal Act;
- (d) use of an alternative fuel or raw material by a stationary source which:

- (1) the source was capable of accommodating before January 6, 1975, unless such change would be prohibited under any federally enforceable permit condition which was established after January 6, 1975, pursuant to 40 CFR 52.21 or under regulations approved pursuant to 40 CFR 51, Subpart I, or 40 CFR 51.166; or
- (2) the source is approved to use under any permit issued under 40 CFR 52.21 or under regulations approved pursuant to 40 CFR 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 airfields, 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 ID | Equipment ID | Description |
|------------------------|--------------|--|
| FUEL BURNING EQUIPMENT | | |
| AA-001 | Y71-01-HF-04 | 68 MMBTU/hr Heat Transfer Medium (HTM) Heater equipped with Low NOx burners and Flue Gas Recirculation (FGR). Each unit burns as fuel, natural gas and process vent streams from the Esterification (Lines H1, H2, and L1) Process. |
| AA-002 | Y71-02-HF-04 | 68 MMBTU/hr Heat Transfer Medium (HTM) Heater equipped with Low NOx burners and Flue Gas Recirculation (FGR). Each unit burns as fuel natural gas and process vent streams from the Esterification (Lines H1, H2, and L1) Process. |
| AA-003 | Y71-03-HF-04 | 68 MMBTU/hr Heat Transfer Medium (HTM) Heater equipped with Low NOx burners and Flue Gas Recirculation (FGR). Each unit burns as fuel natural gas and process vent streams from the Esterification (Lines H1, H2, and L1) Process. |
| AA-004 | U21-01-BR-02 | 100 MMBTU/hr Boiler equipped with Low NOx burners and Flue Gas Recirculation (FGR). Each unit burns as fuel natural gas and process vent streams from the Esterification (Lines H1, H2, and L1) Process. Subject to Major Source Boiler MACT, Subpart DDDDD. |
| AA-005 | U21-02-BR-02 | 27 MMBTU/hr Boiler equipped with Low NOx burners and Flue Gas Recirculation (FGR). Each unit burns as fuel natural gas and process vent streams from the Esterification (Lines H1, H2, and L1) Process. Subject to Major Source Boiler MACT, Subpart DDDDD. |
| AA-006 | U21-03-BR-02 | 100 MMBTU/hr Boiler equipped with Low NOx burners and Flue Gas Recirculation (FGR). Each unit burns as fuel natural gas and process vent streams from the Esterification (Lines H1, H2, and L1) Process. Subject to Major Source Boiler MACT, Subpart DDDDD. |
| AA-007 | Y12-00-PU-02 | 305 hp Diesel-fired Firewater Pump. Installed in 1997. |
| AA-009 | K92-00-GG-02 | 500 kW Diesel-fired Emergency Generator. Installed in 1997. |
| AA-010 | F92-00-GG-02 | 500 kW Diesel-fired Emergency Generator. Installed in 1997. |
| AA-011 | DO-1 | 0.5 MMBTU/hr Natural Gas-fired Drying Oven for Pack Cleaning Process |
| AA-012 | CO-1 | 0.66 MMBTU/hr Natural Gas-fired Heat Cleaning Oven #1 for Pack Cleaning Process |
| AA-013 | CO-2 | 0.66 MMBTU/hr Natural Gas-fired Heat Cleaning Oven #2 for Pack Cleaning Process |
| AA-021 | C92-00-GG-04 | 135 kW Diesel-fired Emergency Generator. Installed in 1997. |

| Emission Point ID | Equipment ID | Description |
|---|---|---|
| LINE 1 ESTERIFICATION (H1): Emissions are routed to the Boilers or Heaters for 99.5% destruction. | | |
| AB-001 | H21-01-TW-23 | Process Column H1 |
| | H21-01-RR-18 | Primary Esterifier H1 |
| | H21-01-RR-21 | Secondary Esterifier H1 |
| | LO11-01-HX-02 | Low Polymerization Spray Condenser H1 (PP1 Scraper Condenser) |
| | L11-01-PK-51 | 3-State EG Intercondenser H1 |
| | L11-01-RR-01 | LP Vacuum Pump Vent H1 |
| | L11-01-HX-16 | Intermediate Polymerization (IP) Spray Condenser H1 (PP2 Scraper Condenser) |
| | L11-01-HX-33 | High Polymerization (HP) Spray Condenser H1 (DRR Scraper Condenser) |
| | L11-01-RR-11 | IP Vacuum Pump Vent H1 |
| | L11-01-RR-31 | HP Vacuum Pump Vent H1 |
| LINE 1 SOLID STATE POLYMERIZATION (SSP) (P1) | | |
| AB-002 | F22-01-SL-10 (A-F) | Six (6) SSP Pre-Storage Bins for Line H1/P1. Storage of amorphous chip product. Emissions are vented to a single baghouse (F-22-01-BH-13) |
| AB-003 | F22-01-SL-17 and 20 | SSP Intermediate Chip and Waste Chip Storage Line P1. Emissions are vented to a single baghouse (F22-01-BH-24) |
| AB-004 | F-41-01-SL-25 (A-E), 35 (A-E), 45 (A-D), and 50 | Fifteen (15) SSP Storage Bins for Line P1 and P3. Emission are vented to a single baghouse (F41-01-BH-27) |
| AB-005 | P41-01-DD-06 | Line H1 SSP Elutriator with an inherent cyclone (P41-01-CX-04) for chip size segregation and removal of PET fines from the product stream. Emissions controlled by Elutriator Baghouse (P41-01-BH-09) |
| AB-006 | P43-01-SC-01 | Pre-Crystallizer Feed Silo H1 that feeds chips into the Crystallization Process. Emissions are controlled by a particulate filter (P43-01-FL-134). |
| AB-007 | P43-01-CZ-11 | Pre-Crystallizer H1 with an inherent baghouse used to remove PET fines from air that recirculates through the crystallization process. |
| | P43-01-CZ-38 | Crystallizer H1 with an inherent baghouse used to remove PET fines from air that recirculates through the crystallization process. |
| AB-008 | P44-01-HX-60 | Product Cooler H1 equipped with a cyclone for SSP cooling of polymerized chips from pre-heater. |
| AB-009 | P44-01-HO-01 | Pre-heater Feed Hopper H1 equipped with a baghouse. |

| Emission Point ID | Equipment ID | Description |
|--|---|---|
| AB-010 | F33-00-VR-03 | SSP Railcar unloading of supplementary polyethylene terephthalate (PET) bottle resin chips H1. |
| AB-011 | L12-01-SL-12 | Chip Receiving Hopper H1 |
| LINE II ESTERIFICATION (H2): Emissions are routed to the Boiler or Heaters for 99.5% destruction | | |
| AC-001 | H21-02-TW-23 | Process Column H2 |
| | H21-02-RR-18 | Primary Esterifier H2 |
| | H21-02-RR-21 | Secondary Esterifier H2 |
| | L11-02-HX-02 | Low Polymerization Spray Condenser H2 (PP1 Scraper Condenser) |
| | L11-02-PK-51 | 3-Stage EG Intercondenser H2 |
| | L11-02-RR-01 | LP Vacuum Pump Bent H2 |
| | L11-01-HX-16 | Intermediate Polymerization Spray Condenser H2 (PP2 Scraper Condenser) |
| | L11-01-HX-33 | High Polymerization Spray Condenser H2 (DRR Scraper Condenser) |
| | L11-02-RR-11 | IP Vacuum Pump Vent H2 |
| | L11-02-RR-31 | HP Vacuum Pump Vent H2 |
| LINE II SOLID STATE POLYMERIZATION (P2) | | |
| AC-002 | F22-02-SL-10 (A-F) | Six (6) SSP Pre-Storage Bins for Line H2/P2 storage of amorphous chip product. Emissions are vented to a single baghouse (F22-02-BH-13) |
| AC-003 | F22-02-SL-17 and 20 | Intermediate Chip and Waste Chip Storage for Line P2. Emissions are vented to a single baghouse (F22-01-BH-24) |
| AC-004 | F41-02-SL-25(A-E), 35(A-E), 45(A-D), and 50 | Fifteen (15) SSP Storage Bins for Line P2. Emissions are vented to a single baghouse (F41-02-BH-27) |
| AC-005 | P41-02-DD-06 | Line H2 SSP Elutriator equipped with a baghouse (F41-02-BH-09) |
| AC-006 | P43-02-SC-01 | Pre-Crystallizer Feed Silo H2 that feeds chips into the Crystallization Process. Emissions are controlled by a particulate filter (P43-02-FL-134) |
| AC-007 | P43-02-CZ-11 | Pre-crystallizer H2 with an inherent baghouse used to remove PET fines from air that recirculates through the crystallization process. |
| | P43-02-CZ-38 | Crystallizer H2 with an inherent baghouse used to remove PET fines from air that recirculates through the crystallization process. |
| AC-008 | P44-02-HX-60 | Product Cooler H2 equipped with a cyclone for SSP cooling of polymerized chips from pre-heater. |

| Emission Point ID | Equipment ID | Description |
|---|--------------------|--|
| AC-009 | P44-02-HO-01 | Pre-Heater Feed Hopper H2 equipped with a baghouse |
| AC-010 | | SSP Railcar unloading of supplementary polyethylene terephthalate (PET) bottle resin chips H2. |
| AC-011 | L-12-02-SL-12 | Chip Receiving Hopper H2 |
| LINE III ESTIFICATION (L2): Emissions are routed to the Boiler or Heaters for 99.5% destruction | | |
| AD-001 | L21-01-TW-23 | Process Column L1 |
| | L21-01-RR-18 | Primary Esterifier L1 |
| | L21-01-RR-21 | Secondary Esterifier L1 |
| | L31-01-HX-02 | Low Polymerization Spray Condenser L1 (PP1 Scraper Condenser) |
| | L31-01-PK-51 | 3-Stage EG Intercondenser L1 |
| | L31-02-RR-01 | LP Vacuum Pump Vent L1 |
| | L31-01-HX-16 | Intermediate Polymerization Spray Condenser L1 (PP2 Scraper Condenser) |
| | L31-01-HX-33 | High Polymerization Spray Condenser L1 (DRR Scraper Condenser) |
| | L31-01-RR-11 | IP Vacuum Pump Vent L1 |
| | L31-01-RR-31 | HP Vacuum Pump Vent L1 |
| LINE III SOLID STATE POLYMERIZATION (P3) | | |
| AD-002 | L32-03-SL-12 | Chip Receiving Hopper L1 |
| AD-003 | F22-03-SL-10 (A-B) | Two (2) Amorphous Pre-Storage Bins used for Line P3 uses a particulate filter (F22-03-FL-13(A-B)) |
| AD-004 | F22-03-SL-17 | Amorphous Chip Waste Bin for Line P3 uses a particulate filter (F22-03-FL-32) |
| AD-005 | P43-03-SL-01 | Pre-Crystallizer Feed Silo for Line P3 that meters chips into the crystallization process from the feed silo. Emissions are controlled by a particulate filter (F22-03-FL-134) |
| AD-006 | P43-03-CZ-11 (A-B) | Pre-Crystallizer P3 equipped with two (2) baghouses. Three inherent baghouses used to remove PET fines from air that recirculates through the crystallization process. |
| | P43-3-CZ-38 | Crystallizer P3 equipped with a baghouse. Three inherent baghouses used to remove PET fines from air that recirculates through the crystallization process. |
| AD-007 | P44-03-HX-60 | Product Cooler H2 equipped with a cyclone for SSP cooling of polymerized chips from pre-heater. |
| AD-008 | P43-03-HO-137 | Chip Surge Control Vessel P3 |

| Emission Point ID | Equipment ID | Description |
|--|--|--|
| ETHYLENE GLYCOL RECOVERY UNIT | | |
| AE-001 | R34-01-PK-01 | Ethylene Glycol Recovery Unit. Emissions from this process are vented to AA-001 through AA-004 for destruction. (Emissions are routed to the Boiler or Heaters for 99.5% destruction.) |
| RAW MATERIAL HANDLING | | |
| AF-001 | H48-01-PK-10 | Additive Dump Station No. 1 |
| AF-002 | H48-01-PK-14 | Additive Dump Station No. 2 |
| AF-003 | H48-01-PK-A | Additive Dump Station No. 3 |
| AF-004 | H48-01-PK-B | Additive Dump Station No. 4 |
| AF-005 | H21-01-SL-07, H21-02-SL-07, L21-01-SL-07, H21-01-SL-01, H21-02-SL-01, P45-01-BH-30, P45-02-BH-30, L21-01-SL-01, R21-00-BH-11, R21-00-BH-12, and R21-00-BH-13 | Railcar, Truck, and Sea Bulk Container Unloading System is a “closed loop” system comprised of three (3) Terephthalic Acid (TPA) Feed Storage Silos, two (2) Isophthalic Acid (PIA) Feed Storage Silos, an Isophthalic Acid (PIA) Feed Storage Silo, and five (5) baghouses. |
| WASTEWATER TREATMENT (Fugitive Emissions) | | |
| AG-001 | | Wastewater Treatment |
| STAPLE FIBER PRODUCTION | | |
| AH-001 | EP-K01 | Exhaust fan for Staple Fiber Production Lines #1 and #2 |
| AH-002 | EP-K02 | Exhaust fan for Staple Fiber Production Lines #3 and #4 |
| AH-003 | | Quench air spinning machine for Staple Fiber spin line #1 |
| AH-004 | | Quench air spinning machine for Staple Fiber spin line #2 |
| AH-005 | | Quench air spinning machine for Staple Fiber spin line #3 |
| AH-006 | | Quench air spinning machine for Staple Fiber spin line #4 |

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.)

3.A.3 For the entire facility, the permittee shall not cause, permit, or allow the emission of particles or any contaminants in sufficient amounts or of such duration from any process as to be injurious to humans, animals, plants, or property, or to be a public nuisance, or create a condition of air pollution.

- (a) The permittee shall not cause or permit the handling, transporting, or storage of any material in a manner which allows or may allow unnecessary amounts of particulate matter to become airborne.
- (b) When dust, fumes, gases, mist, odorous matter, vapors, or any combination thereof escape from a building or equipment in such a manner and amount as to cause a nuisance to property other than that from which it originated or to violate any other provision of 11 Miss. Admin. Code Pt. 2, Ch. 1, the Commission may order such corrected in a way that all air and gases or air and gasborne material leaving the building or equipment are controlled or removed prior to discharge to the open air.

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

B. Emission Point Specific Emission Limitations & Standards

| Emission Point(s) | Applicable Requirement | Condition Number(s) | Pollutant/Parameter | Limit/Standard |
|--|---|---------------------|----------------------|--|
| AA-001 AA-002 AA-003 AA-004 AA-005 AA-006 | 11 Miss. Admin. Code Pt. 2, R. 1.3(D)(1)(b). | 3.B.1 | PM (filterable only) | $E = 0.8808 * T^{-0.1667}$ |
| AA-001 AA-002 AA-003 AA-004 AA-005 AA-006 AA-011 AA-012 AA-013 | 11 Miss. Admin. Code Pt. 2, R. 1.4(A)(1) | 3.B.2 | SO ₂ | 4.8 lbs/MMBTU |
| AA-001 AA-002 AA-003 | 11 Miss. Admin. Code Pt. 2, R. 2.2.B(10), as established in Federally Enforceable Construction Permit issued on October 8, 1996, and modified on October 11, 2004 | 3.B.3 | NO _x | 9.90 lbs/hr (maximum hourly) and 36.25 tpy (The tpy limit is the total combined allowable emission limit for Emission Points AA-001, AA-002, and AA-003) |
| | | 3.B.4 | CO | 9.90 lbs/hr (maximum hourly) and 36.25 tpy (The tpy limit is the total combined allowable emission limit for Emission Points AA-001, AA-002, and AA-003) |
| | | 3.B.5 | Fuel Restriction | Natural Gas (primary fuel) or Process Vent Streams from the Esterification (H1, H2, or L1) process and the Glycol Recovery Unit. Total combined natural gas fuel usage for AA-001, AA-002, and AA-003 shall not exceed 1,450 MMcf/yr. |
| AA-001 AA-002 AA-003 AA-004 AA-005 AA-006 | New Source Performance Standard for Small Industrial-Commercial-Institutional Steam Generating Units (40 CFR 60, Subpart Dc) and General Provisions (40 CFR 60, Subpart A); 40 CFR 60.42c | 3.B.6 | | Applicability |

| Emission Point(s) | Applicable Requirement | Condition Number(s) | Pollutant/Parameter | Limit/Standard |
|--|---|---------------------|--------------------------------------|--|
| AA-004 AA-005 AA-006 | 11 Miss. Admin. Code Pt. 2, R. 2.2.B(10), as established in Federally Enforceable Construction Permit issued on October 8, 1996, and modified on October 11, 2004 | 3.B.7 | NO _x | 14.56 lb/hr (maximum hourly) and 50.0 tpy (The tpy limit is the total combined allowable emission limit for Emission Points AA-004, AA-005, and AA-006.) |
| | | 3.B.8 | CO | 14.56 lb/hr (maximum hourly) and 50.0 tpy (The tpy limit is the total combined allowable emission limit for Emission Points AA-004, AA-005, and AA-006.) |
| | | 3.B.9 | Fuel Restriction | Natural Gas (primary fuel) or Process Vent Streams from the Esterification (H1, H2, or L1) process and the Glycol Recovery Unit. Total combined natural gas fuel usage for AA-004, AA-005, and AA-006 shall not exceed 2,000 MMcf/yr. |
| AA-007 AA-009 AA-010 AA-011 AA-012 AA-013 AA-021 | 11 Miss. Admin. Code Pt. 2, R. 1.3(D)(1)(a) | 3.B.10 | PM (filterable only) | 0.6 lbs/MMBTU |
| AA-007 AA-009 AA-010 AA-021 | National Emission Standard for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (40 CFR 63, Subpart ZZZZ) and General Provisions (40 CFR 63, Subpart A); 40 CFR 63.6580, 63.6585(a) and (b), and 63.6590(a)(1) | 3.B.11 | HAP | Applicability |
| AA-007 AA-021 | 40 CFR 63.6605, Subpart ZZZZ | 3.B.12 | General Requirements | Compliance at all times |
| | | | 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. |
| AA-007 AA-021 | 40 CFR 63.6625(e)(3), Subpart ZZZZ | 3.B.13 | General Requirements | Operate according to manufacturer's emission-related written instructions or develop maintenance plan |
| AA-007 AA-009 AA-010 AA-021 | 40 CFR 63.6625(f), Subpart ZZZZ and 11 Miss. Admin. Code Pt. 2, R. 2.2.B(10). | 3.B.14 | Hours of Operation | Install a non-resettable hour meter |

| Emission Point(s) | Applicable Requirement | Condition Number(s) | Pollutant/Parameter | Limit/Standard |
|-------------------|---|---------------------|---------------------------------------|---|
| AA-007 AA-021 | 40 CFR 63.6625(h), Subpart ZZZZ | 3.B.15 | General Requirements | Minimize the engine's time spent at idle |
| | 40 CFR 63.6640(f)(1), (2), and (4), Subpart ZZZZ | 3.B.16 | Operating Time | Emergency Operation Requirements |
| AB-002 AB-003 | 11 Miss. Admin. Code Pt. 2, R. 2.2.B(10), as established in Federally Enforceable Construction Permit issued on October 8, 1996, and modified on October 11, 2004 | 3.B.17 | PM/PM ₁₀ (filterable only) | 0.21 lbs/hr and 0.94 tpy (Emission limitations applicable to each emission point.) |
| AB-004 | 11 Miss. Admin. Code Pt. 2, R. 2.2.B(10), as established in Federally Enforceable Construction Permit issued on October 8, 1996, and modified on October 11, 2004 | 3.B.18 | PM/PM ₁₀ (filterable only) | 0.65 lbs/hr and 2.83 tpy |
| AB-005 | 11 Miss. Admin. Code Pt. 2, R. 2.2.B(10), as established in Federally Enforceable Construction Permit issued on October 8, 1996, and modified on October 11, 2004 | 3.B.19 | PM/PM ₁₀ (filterable only) | 0.07 lbs/hr and 0.30 tpy |
| AB-006 | 11 Miss. Admin. Code Pt. 2, R. 2.2.B(10), as established in Federally Enforceable Construction Permit issued on October 8, 1996, and modified on October 11, 2004 | 3.B.20 | PM/PM ₁₀ (filterable only) | 0.12 lbs/hr and 0.51 tpy |
| AB-007 | 11 Miss. Admin. Code Pt. 2, R. 2.2.B(10), as established in Federally Enforceable Construction Permit issued on October 8, 1996, and modified on October 11, 2004 | 3.B.21 | PM/PM ₁₀ (filterable only) | 0.10 lbs/hr and 0.44 tpy |
| AB-008 | 11 Miss. Admin. Code Pt. 2, R. 2.2.B(10), as established in Federally Enforceable Construction Permit issued on October 8, 1996, and modified on October 11, 2004 | 3.B.22 | PM/PM ₁₀ (filterable only) | 0.90 lbs/hr and 3.94 tpy |
| AB-009 | 11 Miss. Admin. Code Pt. 2, R. 2.2.B(10), as established in Federally Enforceable Construction Permit issued on October 8, 1996, and modified on October 11, 2004 | 3.B.23 | PM/PM ₁₀ (filterable only) | 0.05 lbs/hr and 0.23 tpy |

| Emission Point(s) | Applicable Requirement | Condition Number(s) | Pollutant/Parameter | Limit/Standard |
|-------------------|---|---------------------|---------------------------------------|---|
| AB-010 | 11 Miss. Admin. Code Pt. 2, R. 2.2.B(10), as established in Federally Enforceable Construction Permit issued on October 8, 1996, and modified on October 11, 2004 | 3.B.24 | PM/PM ₁₀ (filterable only) | 0.10 lbs/hr and 0.44 tpy |
| Facility Wide | 11 Miss. Admin. Code Pt. 2, R. 1.3(F)(1) | 3.B.25 | PM/PM ₁₀ (filterable only) | $E = 4.1(p)^{0.67}$ |
| AC-002 AC-003 | 11 Miss. Admin. Code Pt. 2, R. 2.2.B(10), as established in Federally Enforceable Construction Permit issued on October 8, 1996, and modified on October 11, 2004 | 3.B.26 | PM/PM ₁₀ (filterable only) | 0.21 lbs/hr and 0.94 tpy (Emission limitations applicable to each emission point.) |
| AC-004 | 11 Miss. Admin. Code Pt. 2, R. 2.2.B(10), as established in Federally Enforceable Construction Permit issued on October 8, 1996, and modified on October 11, 2004 | 3.B.27 | PM/PM ₁₀ (filterable only) | 0.65 lbs/hr and 2.83 tpy |
| AC-005 | 11 Miss. Admin. Code Pt. 2, R. 2.2.B(10), as established in Federally Enforceable Construction Permit issued on October 8, 1996, and modified on October 11, 2004 | 3.B.28 | PM/PM ₁₀ (filterable only) | 0.07 lbs/hr and 0.30 tpy |
| AC-006 | 11 Miss. Admin. Code Pt. 2, R. 2.2.B(10), as established in Federally Enforceable Construction Permit issued on October 8, 1996, and modified on October 11, 2004 | 3.B.29 | PM/PM ₁₀ (filterable only) | 0.12 lbs/hr and 0.52 tpy |
| AC-007 | 11 Miss. Admin. Code Pt. 2, R. 2.2.B(10), as established in Federally Enforceable Construction Permit issued on October 8, 1996, and modified on October 11, 2004 | 3.B.30 | PM/PM ₁₀ (filterable only) | 0.10 lbs/hr and 0.44 tpy |
| AC-008 | 11 Miss. Admin. Code Pt. 2, R. 2.2.B(10), as established in Federally Enforceable Construction Permit issued on October 8, 1996, and modified on October 11, 2004 | 3.B.31 | PM/PM ₁₀ (filterable only) | 0.90 lbs/hr and 3.94 tpy |
| AC-009 | 11 Miss. Admin. Code Pt. 2, R. 2.2.B(10), as established in Federally Enforceable | 3.B.32 | PM/PM ₁₀ (filterable) | 0.05 lbs/hr and 0.23 tpy |

| Emission Point(s) | Applicable Requirement | Condition Number(s) | Pollutant/Parameter | Limit/Standard |
|-------------------|--|---------------------|---------------------------------------|----------------------------|
| | Construction Permit issued on October 8, 1996, and modified on October 11, 2004 | | only) | |
| AC-010 | 11 Miss. Admin. Code Pt. 2, R. 2.2.B(10)., as established in Federally Enforceable Construction Permit issued on October 8, 1996, and modified on October 11, 2004 | 3.B.33 | PM/PM ₁₀ (filterable only) | 0.10 lbs/hr and 0.44 tpy |
| AD-002 | 11 Miss. Admin. Code Pt. 2, R. 2.2.B(10)., as established in Federally Enforceable Construction Permit issued on October 8, 1996, and modified on October 11, 2004 | 3.B.34 | PM/PM ₁₀ (filterable only) | 0.027 lbs/hr and 0.118 tpy |
| AD-003 | 11 Miss. Admin. Code Pt. 2, R. 2.2.B(10)., as established in Federally Enforceable Construction Permit issued on October 8, 1996, and modified on October 11, 2004 | 3.B.35 | PM/PM ₁₀ (filterable only) | 1.07 lbs/hr and 4.69 tpy |
| AD-004 | 11 Miss. Admin. Code Pt. 2, R. 2.2.B(10)., as established in Federally Enforceable Construction Permit issued on October 8, 1996, and modified on October 11, 2004 | 3.B.36 | PM/PM ₁₀ (filterable only) | 0.54 lbs/hr and 2.35 tpy |
| AD-005 | 11 Miss. Admin. Code Pt. 2, R. 2.2.B(10)., as established in Federally Enforceable Construction Permit issued on October 8, 1996, and modified on October 11, 2004 | 3.B.37 | PM/PM ₁₀ (filterable only) | 0.12 lbs/hr and 0.51 tpy |
| AD-006 | 11 Miss. Admin. Code Pt. 2, R. 2.2.B(10)., as established in Federally Enforceable Construction Permit issued on October 8, 1996, and modified on October 11, 2004 | 3.B.38 | PM/PM ₁₀ (filterable only) | 0.46 lbs/hr and 2.01 tpy |
| AD-007 | 11 Miss. Admin. Code Pt. 2, R. 2.2.B(10)., as established in Federally Enforceable Construction Permit issued on October 8, 1996, and modified on October 11, 2004 | 3.B.39 | PM/PM ₁₀ (filterable only) | 0.21 lbs/hr and 0.91 tpy |

| Emission Point(s) | Applicable Requirement | Condition Number(s) | Pollutant/Parameter | Limit/Standard |
|--|---|---------------------|---------------------------------------|--|
| AD-008 | 11 Miss. Admin. Code Pt. 2, R. 2.2.B(10), as established in Federally Enforceable Construction Permit issued on October 8, 1996, and modified on October 11, 2004 | 3.B.40 | PM/PM ₁₀ (filterable only) | 0.27 lbs/hr and 1.18 tpy |
| AB-001 AC-001 AD-001 AE-001 AG-001 | 40 CFR 63.1310 and 63.1311(a) and (c) -- National Emission Standards for Hazardous Air Pollutant Emissions: Group IV Polymers and Resins, 40 CFR 63, Subpart JJJ | 3.B.41 | HAP | Applicability |
| | 11 Miss. Admin. Code Pt. 2, R. 2.15.C., as established in Title V Operating Permit issued September 21, 2022 | 3.B.42 | | Route all emissions to Emission Points AA-001 through AA-004 |
| AB-001 AC-001 AD-001 AE-001 | 40 CFR 63.1316(b)(2)(v)(a), Subpart JJJ | 3.B.43 | HAP | Reduce emissions of total organic HAP in a combustion device by 98 weight-percent or to a concentration of 20 ppmv, whichever is less stringent. |
| | 40 CFR 63.1331(a), Subpart JJJ | 3.B.44 | HAP | Comply with the equipment leak provisions of Subpart JJJ by complying with Subpart H with the noted differences. |
| | 40 CFR 63.1331(a)(9)(iii), Subpart JJJ | 3.B.45 | HAP | Requirements for Pressure Relief Devices |
| AG-001 | 40 CFR 63.1330(b), Subpart JJJ | 3.B.46 | HAP | Comply with the wastewater provisions of Subpart JJJ by complying with 40 CFR 63.132 through 63.149 of Subpart G, with the noted differences. Recordkeeping requirements only for Group 2 wastewater streams |
| AG-001 | 40 CFR 63.1330(c), Subpart JJJ | 3.B.47 | HAP | Comply with the maintenance wastewater provisions of Subpart JJJ by complying with 40 CFR 63.105 of Subpart F, with the noted differences. |
| AB-007 AC-007 AD-006 | 11 Miss. Admin. Code Pt. 2, R. 2.2.B(10), as established in Title V Operating Permit issued September 30, 2016 | 3.B.48 | | Vents shall remain closed during normal operation. |
| AA-004 AA-005 AA-006 AA-011 AA-012 AA-013 | 40 CFR 63.7485 -- National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters, 40 CFR 63, Subpart DDDDD | 3.B.49 | HAP | Applicability |

| Emission Point(s) | Applicable Requirement | Condition Number(s) | Pollutant/Parameter | Limit/Standard |
|--|-------------------------------------|---------------------|---------------------|--|
| AA-004 AA-005 AA-006 AA-011 AA-012 AA-013 | 40 CFR 63.7500(a)(3), Subpart DDDDD | 3.B.50 | HAP | Operate in such a manner to minimize emissions using good air pollution control practices. |

3.B.1 For Emission Points AA-001, AA-002, AA-003, AA-004, AA-005, and AA-006, the maximum permissible emissions of ash and/or particulate matter from fossil fuel burning installations greater than 10 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.2 For Emission Points AA-001, AA-002, AA-003, AA-004, AA-005, AA-006, AA-010, AA-011, AA-012, and AA-013, the maximum discharge of sulfur dioxides 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).)

3.B.3 For Emission Points AA-001, AA-002, and AA-003, Nitrogen Oxide (NOx) emissions shall not exceed 9.9. lb/hr (maximum hourly) and 36.25 tpy. The tons per year (tpy) limit is the total combined allowable emission limit for Emission Points AA-001, AA-002, and AA-003.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.2.B(10)., as established in the Federally Enforceable Construction Permit issued on October 8, 1996, and modified on October 11, 2004)

3.B.4 For Emission Points AA-001, AA-002, and AA-003, Carbon Monoxide (CO) emissions shall not exceed 9.9. lb/hr (maximum hourly) and 36.25 tpy. The tons per year (tpy) limit is the total combined allowable emission limit for Emission Points AA-001, AA-002, and AA-003.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.2.B(10)., as established in the Federally Enforceable Construction Permit issued on October 8, 1996, and modified on October 11, 2004)

- 3.B.5 For Emission Points AA-001, AA-002, and AA-003, the permittee shall use natural gas (primary fuel) or process vent streams from the Esterification (H1, H2, or L1) process and the Glycol Recovery Unit. Any process vent streams combusted in the boilers must be introduced simultaneously with the primary fuel.

The total combined natural gas fuel usage for AA-001, AA-002, and AA-003 shall not exceed 1,450 MMcf/year.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.2.B(10)., as established in the Federally Enforceable Construction Permit issued October 8, 1996, and modified October 11, 2004)

- 3.B.6 For Emission Points AA-001 through AA-006, the permittee is subject to the New Source Performance Standard for Small Industrial-Commercial-Institutional Steam Generating Units (40 CFR 60, Subpart Dc) and General Provisions (40 CFR 60, Subpart A).

These units only have to comply with daily fuel combustion records requirement for monitoring.

(Ref.: 40 CFR 60.42c, Subpart Dc)

- 3.B.7 For Emission Points AA-004, AA-005, and AA-006, Nitrogen Oxide (NO_x) emissions shall not exceed 14.56 lb/hr (maximum hourly) and 50 tpy. The tons per year (tpy) limit is the total combined allowable emission limit for Emission Points AA-004, AA-005, and AA-006.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.2.B(10)., as established in the Federally Enforceable Construction Permit issued on October 8, 1996, and modified on October 11, 2004)

- 3.B.8 For Emission Points AA-004, AA-005, and AA-006, Carbon Monoxide (CO) emissions shall not exceed 14.56 lb/hr (maximum hourly) and 50 tpy. The tons per year (tpy) limit is the total combined allowable emission limit for Emission Points AA-004, AA-005, and AA-006.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.2.B(10)., as established in the Federally Enforceable Construction Permit issued on October 8, 1996, and modified on October 11, 2004)

- 3.B.9 For Emission Points AA-004, AA-005, and AA-006, the permittee shall use natural gas (primary fuel) or process vent streams from the Esterification (H1, H2, or L1) process and

the Glycol Recovery Unit. Any process vent streams combusted in the boilers must be introduced simultaneously with the primary fuel.

The total combined natural gas fuel usage for AA-004, AA-005, and AA-006 shall not exceed 2,000 MMcf/year.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.2.B(10)., as established in the Federally Enforceable Construction Permit issued October 8, 1996, and modified October 11, 2004)

- 3.B.10 For Emission Points AA-007, AA-009, AA-010, AA-011, AA-012, AA-013, and AA-021, 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.B.11 For Emission Points AA-007, AA-009, AA-010, and AA-021, the permittee is subject to and shall comply with all applicable requirements of National Emission Standards for Hazardous Air Pollutants from Reciprocating Internal Combustion Engines (40 CFR 63, Subpart ZZZZ) and the General Provisions (40 CFR 63, Subpart A).

Emission Point AA-007 is an existing Diesel Fired (Combustion Ignition) Firewater Pump < 500 hp located at a major source of Hazardous Air Pollutants (HAPs).

Emission Point AA-009 is an existing Diesel Fired (CI) Emergency Generator > 500 hp located at a major source of HAP.

Emission Point AA-010 is an existing Diesel Fired (CI) Emergency Generator > 500 hp located at a major source of HAP.

Emission Point AA-021 is an existing Diesel Fired (CI) Emergency Generator < 500 hp located at a major source of HAP.

Emission Points AA-009 and AA-010 do not have to meet the requirements of 40 CFR 63 Subpart ZZZZ and Subpart A including the initial notification requirements as long as these engines meet the definition of an emergency engines as specified in Subpart ZZZZ.

(Ref.: 40 CFR 63.6585(a) and (b), 63.6590(a)(1) and (b)(3)(iii), and 63.6595 Subpart ZZZZ)

- 3.B.12 For Emission Points AA-007 and AA-021, the permittee shall comply with the following:
- (a) Be in compliance with the emission limitations, operating limitation, and other requirements in Subpart ZZZZ that apply at all times.

- (b) Operate and maintain the engine in a manner consistent with safety and good air pollution control practices for minimizing emissions. The general duty to minimize emissions does not require you to make any further efforts to reduce emissions if levels required by this standard have been achieved. Determination of whether such operation and maintenance procedures are being used will be based on information available to the DEQ 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 63.6605, Subpart ZZZZ)

- 3.B.13 For Emission Points AA-007 and AA-021, the permittee shall operate and maintain the stationary RICE and after-treatment control device (if any) according to the manufacturer's emission-related written instructions or develop your own maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions.

(Ref.: 40 CFR 63.6625(e)(3), Subpart ZZZZ)

- 3.B.14 For Emission Points AA-007, AA-009, AA-010, and AA-021, the permittee shall install a non-resettable hour meter if one is not already installed.

(Ref.: 40 CFR 63.6625(f), Subpart ZZZZ and 11 Miss. Admin. Code Pt. 2, R. 2.2.B(10).)

- 3.B.15 For Emission Points AA-007 and AA-021, 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.

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

- 3.B.16 For Emission Points AA-007, AA-009, AA-010, and AA-021, the permittee shall operate the emergency stationary RICE according to the requirements in (a) through (c) below. In order for the engine to be considered an emergency stationary RICE under this subpart, any operation other than emergency operation, maintenance and testing, emergency demand response, and operation in non-emergency situations for 50 hours per year is prohibited. If you do not operate the engine according to the requirements below, the engine will not be considered an emergency engine under this subpart and must meet all requirements for non-emergency engines.

- (a) There is no time limit on the use of emergency stationary RICE in emergency situations.
- (b) The permittee shall operate the emergency stationary RICE 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 DEQ 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.

- (c) Emergency stationary RICE located at area sources of HAP 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 and emergency demand response. 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 an electric grid or otherwise supply power as part of a financial arrangement with another entity.

(Ref.: 40 CFR 63.6640(f)(1), (2), and (4), Subpart ZZZZ)

- 3.B.17 For Emission Points AB-002 and AB-003, the Particulate Matter (PM/PM₁₀) (filterable only) emissions shall not exceed 0.21 lbs/hr and 0.94 tpy. Emission limitations applicable to each emission point.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.2.B(10)., as established in the Federally Enforceable Construction Permit issued on October 8, 1996, and modified October 11, 2004)

- 3.B.18 For Emission Point AB-004, the Particulate Matter (PM/PM₁₀) (filterable only) emissions shall not exceed 0.65 lbs/hr and 2.83 tpy.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.2.B(10)., as established in the Federally Enforceable Construction Permit issued on October 8, 1996, and modified October 11, 2004)

- 3.B.19 For Emission Point AB-005, the Particulate Matter (PM/PM₁₀) (filterable only) emissions shall not exceed 0.07 lbs/hr and 0.30 tpy.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.2B(10)., as established in the Federally Enforceable Construction Permit issued on October 8, 1996, and modified October 11, 2004)

- 3.B.20 For Emission Point AB-006, the Particulate Matter (PM/PM₁₀) (filterable only) emissions shall not exceed 0.12 lbs/hr and 0.51 tpy.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.2.B(10)., as established in the Federally Enforceable Construction Permit issued on October 8, 1996, and modified October 11, 2004)

3.B.21 For Emission Point AB-007, the Particulate Matter (PM/PM₁₀) (filterable only) emissions shall not exceed 0.10 lbs/hr and 0.44 tpy.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.2.B(10)., as established in the Federally Enforceable Construction Permit issued on October 8, 1996, and modified October 11, 2004)

3.B.22 For Emission Point AB-008, the Particulate Matter (PM/PM₁₀) (filterable only) emissions shall not exceed 0.90 lbs/hr and 3.94 tpy.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.2.B(10)., as established in the Federally Enforceable Construction Permit issued on October 8, 1996, and modified October 11, 2004)

3.B.23 For Emission Point AB-009, the Particulate Matter (PM/PM₁₀) (filterable only) emissions shall not exceed 0.05 lbs/hr and 0.23 tpy.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.2.B(10)., as established in the Federally Enforceable Construction Permit issued on October 8, 1996, and modified October 11, 2004)

3.B.24 For Emission Point AB-010, the Particulate Matter (PM/PM₁₀) (filterable only) emissions shall not exceed 0.10 lbs/hr and 0.23 tpy.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.2.B(10)., as established in the Federally Enforceable Construction Permit issued on October 8, 1996, and modified October 11, 2004)

3.B.25 For the Entire Facility, the permittee shall not cause, permit, or allow the emissions of particulate matter in total quantities in any one hour from any manufacturing process, which includes any associated stacks, vents, outlets, or combination thereof, to exceed the amount determined by the relationship

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

where E is the emission rate in pounds per hour and p is the process weight input rate in tons per hour.

Conveyor discharge of coarse solid matter may be allowed if no nuisance is created beyond the property boundary where the discharge occurs.

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

- 3.B.26 For Emission Points AC-002 and AC-003, the Particulate Matter (PM/PM₁₀) (filterable only) emissions shall not exceed 0.21 lbs/hr and 0.94 tpy. Emission limitations applicable to each emission point.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.2.B(10)., as established in the Federally Enforceable Construction Permit issued on October 8, 1996, and modified October 11, 2004)

- 3.B.27 For Emission Point AC-004, the Particulate Matter (PM/PM₁₀) (filterable only) emissions shall not exceed 0.65 lbs/hr and 2.83 tpy.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.2.B(10)., as established in the Federally Enforceable Construction Permit issued on October 8, 1996, and modified October 11, 2004)

- 3.B.28 For Emission Point AC-005, the Particulate Matter (PM/PM₁₀) (filterable only) emissions shall not exceed 0.07 lbs/hr and 0.30 tpy.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.2.B(10)., as established in the Federally Enforceable Construction Permit issued on October 8, 1996, and modified October 11, 2004)

- 3.B.29 For Emission Point AC-006, the Particulate Matter (PM/PM₁₀) (filterable only) emissions shall not exceed 0.12 lbs/hr and 0.52 tpy.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.2.B(10)., as established in the Federally Enforceable Construction Permit issued on October 8, 1996, and modified October 11, 2004)

- 3.B.30 For Emission Point AC-007, the Particulate Matter (PM/PM₁₀) (filterable only) emissions shall not exceed 0.10 lbs/hr and 0.44 tpy.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.2.B(10)., as established in the Federally Enforceable Construction Permit issued on October 8, 1996, and modified October 11, 2004)

- 3.B.31 For Emission Point AC-008, the Particulate Matter (PM/PM₁₀) (filterable only) emissions shall not exceed 0.90 lbs/hr and 3.94 tpy.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.2.B(10)., as established in the Federally Enforceable Construction Permit issued on October 8, 1996, and modified October 11, 2004)

- 3.B.32 For Emission Point AC-009, the Particulate Matter (PM/PM₁₀) (filterable only) emissions shall not exceed 0.05 lbs/hr and 0.23 tpy.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.2.B(10)., as established in the Federally Enforceable Construction Permit issued on October 8, 1996, and modified October 11, 2004)

- 3.B.33 For Emission Point AC-010, the Particulate Matter (PM/PM₁₀) (filterable only) emissions shall not exceed 0.10 lbs/hr and 0.44 tpy.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.2.B(10)., as established in the Federally Enforceable Construction Permit issued on October 8, 1996, and modified October 11, 2004)

- 3.B.34 For Emission Point AD-002, the Particulate Matter (PM/PM₁₀) (filterable only) emissions shall not exceed 0.027 lbs/hr and 0.118 tpy.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.2.B(10)., as established in the Federally Enforceable Construction Permit issued on October 8, 1996, and modified October 11, 2004)

- 3.B.35 For Emission Point AD-003, the Particulate Matter (PM/PM₁₀) (filterable only) emissions shall not exceed 1.07 lbs/hr and 4.69 tpy.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.2.B(10)., as established in the Federally Enforceable Construction Permit issued on October 8, 1996, and modified October 11, 2004)

- 3.B.36 For Emission Point AD-004, the Particulate Matter (PM/PM₁₀) (filterable only) emissions shall not exceed 0.54 lbs/hr and 2.35 tpy.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.2.B(10)., as established in the Federally Enforceable Construction Permit issued on October 8, 1996, and modified October 11, 2004)

- 3.B.37 For Emission Point AD-005, the Particulate Matter (PM/PM₁₀) (filterable only) emissions shall not exceed 0.12 lbs/hr and 0.51 tpy.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.2.B(10)., as established in the Federally Enforceable Construction Permit issued on October 8, 1996, and modified October 11, 2004)

- 3.B.38 For Emission Point AD-006, the Particulate Matter (PM/PM₁₀) (filterable only) emissions shall not exceed 0.46 lbs/hr and 2.01 tpy.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.2.B(10)., as established in the Federally Enforceable Construction Permit issued on October 8, 1996, and modified October 11, 2004)

- 3.B.39 For Emission Point AD-007, the Particulate Matter (PM/PM₁₀) (filterable only) emissions shall not exceed 0.21 lbs/hr and 0.91 tpy.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.2.B(10)., as established in the Federally Enforceable Construction Permit issued on October 8, 1996, and modified October 11, 2004)

- 3.B.40 For Emission Point AD-008, the Particulate Matter (PM/PM₁₀) (filterable only) emissions shall not exceed 0.27 lbs/hr and 1.18 tpy.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.2.B(10)., as established in the Federally Enforceable Construction Permit issued on October 8, 1996, and modified October 11, 2004)

- 3.B.41 For Emission Points AB-001, AC-001, AD-001, AE-001, and AG-001, the permittee is subject to and shall comply with all applicable requirements of the National Emission Standards for Hazardous Air Pollutant Emissions: Group IV Polymers and Resins (40 CFR 63, Subpart JJJ) and the General Provisions for National Emission Standards for Hazardous Air Pollutants (NESHAP) Source Categories (40 CFR 63, Subpart A).

(Ref.: 40 CFR 63.1310 and 63.1311(a) and (c), Subpart JJJ)

- 3.B.42 For Emission Points AB-001, AC-001, AD-001, and AE-001, the permittee shall route all emissions to Emission Points AA-001 through AA-004.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.2.B(10)., as established in Title V Operating Permit issued September 21, 2022)

- 3.B.43 For Emission Points AB-001, AC-001, AD-001, and AE-001, the permittee using a continuous terephthalic acid process shall reduce the emissions in a combustion device to achieve 98 weight percent reduction or to achieve a concentration of 20 parts per million by volume (ppmv) on a dry basis, whichever is less stringent, If the permittee comply with the 20 ppmv standard, the concentration shall include a correction to 3 percent oxygen only when supplemental combustion air is used to combust the emissions.

(Ref.: 40 CFR 63.1316(b)(2)(v)(a), Subpart JJJ)

- 3.B.44 For Emission Points AB-001, AC-001, AD-001, and AE-001, the permittee shall comply with the Equipment Leak Provisions of the National Emission Standards for Hazardous Air Pollutants Emissions: Group IV Polymers and Resins, Subpart JJJ, 40 CFR 63.1331. More specifically, the permittee shall comply with the requirements of the National Emission Standards for Organic Hazardous Air Pollutants for Equipment Leaks (40 CFR 63, Subpart H), with the differences noted in paragraphs 63.1331(a)(1) through (a)(13).

(Ref.: 40 CFR 63.1331(a), Subpart JJJ)

3.B.45 For Emission Points AB-001, AC-001, AD-001, and AE-001, except as specified in 40 CFR 63.1331(a)(9)(iv), the permittee shall comply with the operating and pressure release requirements specified in 40 CFR 63.1331(a)(9)(i) and (ii) for pressure relief devices in organic HAP gas or vapor service. Except as specified in 40 CFR 63.1331(a)(9)(iv), the permittee shall also comply with the pressure release management requirements specified in 40 CFR 63.1331(a)(9)(iii) for all pressure relief devices in organic HAP service.

(Ref.: 40 CFR 63.1331(a)(9), Subpart JJJ)

3.B.46 For Emission Point AG-001, the permittee shall comply with the Wastewater Provisions of the National Emission Standards for Hazardous Air Pollutants Emissions: Group IV Polymers and Resins, Subpart JJJ, 40 CFR 63.1330. More specifically, the permittee shall comply with the requirements of the National Emission Standards for Organic Hazardous Air Pollutants from the Synthetic Organic Chemical Manufacturing Industry for Process Vents, Storage Vessels, Transfer Operations, and Wastewater (40 CFR 63, Subpart G) 40 CFR 63.132 through 63.149, with the differences noted in 40 CFR 63.1330(b)(1) through (b)(22).

(Ref.: 40 CFR 63.1330(b), Subpart JJJ)

3.B.47 For Emission Point AG-001, the permittee shall comply with the requirements of the National Emission Standards for Organic Hazardous Air Pollutants from the Synthetic Organic Chemical Manufacturing Industry (40 CFR 63, Subpart F) for maintenance wastewater in 40 CFR 63.105, except that when 40 CFR 63.105(a) refers to “organic HAPs listed in Table 9 of Subpart G of 40 CFR 63 Subpart JJJ,” the permittee is only required to consider compounds that meet the definition of organic HAP in 40 CFR 63.1312 and that are listed in Table 9 of 40 CFR 63, Subpart G, except for ethylene glycol which need not be considered, for the purposes of 40 CFR 63, Subpart JJJ.

(Ref.: 40 CFR 63.1330(c), Subpart JJJ)

3.B.48 For Emission Points AB-007, AC-007, and AD-006, the vents shall remain closed during normal operation.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.15.C., as established in the Title V Operating Permit issued September 30, 2016)

3.B.49 For Emission Points AA-004, AA-005, AA-006, AA-011, AA-012, and AA-013, the permittee is subject to and shall comply with all applicable requirements of National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters (40 CFR 63, Subpart DDDDD) and the General Provisions (40 CFR 63, Subpart A).

(Ref. 40 CFR 63.7485, Subpart DDDDD)

3.B.50 For Emission Points AA-004, AA-005, AA-006, AA-011, AA-012, and AA-013, the permittee shall operate and maintain any affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. Determination of whether such operation and maintenance procedures are being used will be based on information available to the MDEQ that 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 63.7500(a)(3), Subpart DDDDD)

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 |
| 11 Miss. Admin. Code Pt. 2, R.1.3.F(1) | 3.C.3 | PM | $E = 4.1(p)^{0.67}$ |

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).)

3.C.3 The permittee shall not cause, permit, or allow the emissions of particulate matter in total quantities in any one hour from any manufacturing process, which includes any associated stacks, vents, outlets, or combination thereof, to exceed the amount determined by the relationship

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

where E is the emission rate in pounds per hour and p is the process weight input rate in

tons per hour.

Conveyor discharge of coarse solid matter may be allowed if no nuisance is created beyond the property boundary where the discharge occurs.

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

D. Work Practice Standards

| Emission Point(s) | Applicable Requirement | Condition Number(s) | Pollutant/Parameter | Limit/Standard |
|--|--|---------------------|----------------------------|---|
| AA-001 AA-002 AA-003 AA-004 AA-005 | 40 CFR 63.6(e) | 3.D.1 | Operations and Maintenance | The permittee shall operate and maintain equipment, including associated pollution control equipment and monitoring equipment, in a manner to minimize emissions. |
| AA-006 AB-001 AC-001 AD-001 AE-001 | 40 CFR 63.6(e) | 3.D.2 | Corrective Action | The permittee shall correct malfunctions as soon as practicable after their occurrence in accordance with the startup, shutdown, and malfunction plan. |
| AA-007 AA-021 | 40 CFR 63.6602, 63.6625(i), and Item 1 and Footnotes 1 and 2 of Table 2c of Subpart ZZZZ | 3.D.3 | HAP | Scheduled Maintenance Requirements |
| | 40 CFR 63.6625(e) and (h), 63.6640(a), and Table 6 of Subpart ZZZZ | 3.D.4 | | Operating Requirements |
| AA-004 AA-005 AA-006 | 40 CFR 63.7500(a)(1) and Table 3, Item 3, Subpart DDDDD | 3.D.5 | HAP | Conduct annual tune-up |
| AA-011 AA-012 AA-013 | 40 CFR 63.7500(a)(1) and Table 3, Item 1, Subpart DDDDD | 3.D.6 | HAP | Conduct tune-up every 5 years |
| AA-004 AA-005 AA-006 AA-011 AA-012 AA-013 | 40 CFR 63.7540(a)(10)(i)-(iv), Subpart DDDDD | 3.D.7 | HAP | Tune-up Requirements |

3.D.1 For Emission Points AA-001, AA-002, AA-003, AA-004, AA-005, AA-006, AB-001, AC-001, AD-001, and AE-001, the permittee shall at all times, including periods of startup,

shutdown, and malfunction, shall operate and maintain each effected source, including associated pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. During a period of startup, shutdown, or malfunction, this general duty to minimize emissions requires that the permittee reduce emissions to the greatest extent which is consistent with safety and good air pollution control practices.

(Ref.: 40 CFR 63.6(e)(1)(i))

- 3.D.2 For Emission Points AA-001, AA-002, AA-003, AA-004, AA-005, AA-006, AB-001, AC-001, AD-001, and AE-001, the permittee shall correct malfunctions as soon as practicable after their occurrence with the startup, shutdown, and malfunction plan required in 40 CFR 63.6(e)(3).

(Ref.: 40 CFR 63.6(e)(1)(ii))

- 3.D.3 For Emission Points AA-007 and AA-021, 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 an oil analysis in an effort to extend the oil/filter change requirement, the results of the analysis must verify the oil has not exceeded the condemning 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.
 - (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 63.6602; 63.6625(i); and Item 1 and Footnotes 1 and 2 of Table 2c of Subpart ZZZZ)

- 3.D.4 For Emission Points AA-007 and AA-021, the permittee shall operate and maintain the engines according to the manufacturer's emission-related written instructions or develop your own maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practices for minimizing emissions. The permittee shall minimize each engine's time spent at idle during startup and minimize each engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes.

(Ref.: 40 CFR 63.6625(e) and (h), 63.6640(a), and Table 6, Subpart ZZZZ)

- 3.D.5 For Emission Points AA-004, AA-005, and AA-006, the permittee shall conduct a tune-up of the boiler or process heater annually as specified in 40 CFR 63.7540. Each tune-up shall be conducted within 13 months after the previous tune-up.

(Ref. 40 CFR 63.7500(a)(1) and Table 3, Item 3, Subpart DDDDD)

- 3.D.6 For Emission Points AA-011, AA-012, and AA-013, the permittee shall conduct a tune-up of the boiler or process heater every five (5) years as specified in 40 CFR 63.7540. Each tune-up shall be conducted within 61 months after the previous tune-up.

(Ref. 40 CFR 63.7500(a)(1) and Table 3, Item 1 Subpart DDDDD)

- 3.D.7 For Emission Points AA-004, AA-005, AA-006, AA-011, AA-012, and AA-013, each tune-up shall consist of the following:

- (a) As applicable, inspect the burner, and clean or replace any components of the burner, as necessary (the burner inspection may be completed any time prior to the tune-up or can be delayed until the next scheduled unit shutdown).
- (b) Inspect the flame pattern, as applicable, and adjust the burner as necessary to optimize the flame pattern. The adjustment should be consistent with the manufacturer's specifications, if available.
- (c) Inspect the system controlling the air-to-fuel ratio, as applicable, and ensure that it is correctly calibrated and functioning properly (inspection may be delayed until the next scheduled unit shutdown).
- (d) Optimize total emission of Carbon Monoxide (CO). This optimization should be consistent with the manufacturer's specifications, if available, and with any NO_x requirement to which the unit is subject.

- (e) Measure the concentrations from the effluent stream of CO in parts per million, by volume, and oxygen in volume percent, before and after the adjustments are made (measurements may be either on a dry or wet basis, as long as it is the same basis before and after the adjustments are made). Measurements may be taken using a portable CO analyzer.
- (f) Maintain on-site and submit, if requested by DEQ, a report containing the information in (1) and (2) below:
 - (1) The concentrations of CO in the effluent stream in parts per million by volume, and oxygen in volume percent, measured at high fire or typical operating load, before and after the tune-up of the boiler or process heater.
 - (2) A description of any corrective actions taken as part of the tune-up.

(Ref.: 40 CFR 63.7540(a)(10)(i)-(vi), Subpart DDDDD)

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. If the permit was reissued or modified during the course of the preceding calendar year, the compliance certification shall address each version of the permit. 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.

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

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

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

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

5.A.3 Except 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. For applicable periodic reporting requirements in 40 CFR Parts 60, 61, and 63, the permittee shall comply with the deadlines in this condition for reporting conducted on a semiannual basis. Additionally, any required quarterly reports shall be submitted by the end of the month following each calendar quarter (i.e., April 30th, July

31st, October 31st, and January 31st), and any required annual reports shall be submitted by January 31st following each calendar year.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)(c)(1)., 40 CFR 60.19(c), 61.10(g), and 63.10(a)(5))

- 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) working days of the time the deviation began.

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

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

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

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

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

- 5.A.8 Unless otherwise specified in Section 4, upon permit issuance, the monitoring, testing, recordkeeping, and reporting requirements of Section 5 herein supersede the requirements of any preceding permit to construct and/or operate.

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

B. Specific Monitoring and Recordkeeping Requirements

| Emission Point(s) | Applicable Requirement | Condition Number | Pollutant/Parameter Monitored | Monitoring/Recordkeeping Requirement |
|--|--|------------------|----------------------------------|---|
| AA-001 AA-002 AA-003 AA-004 AA-005 AA-006 AA-007 AA-009 AA-010 AA-011 AA-012 AA-013 | 40 CFR 60.48c(g), Subpart Dc and 11 Miss. Admin. Code Pt. 2, R. 6.3.A(3). | 5.B.1 | Fuel Usage | Record and maintain the amount of fuel combusted during each day and in any 12- month rolling period. |
| AA-007 AA-021 | 40 CFR 63.6655(a), Subpart ZZZZ | 5.B.2 | HAP | Recordkeeping |
| | 40 CFR 63.6655(e), Subpart ZZZZ | 5.B.3 | | |
| AA-007 AA-009 AA-010 AA-021 | 40 CFR 63.6655(f), Subpart ZZZZ and 11 Miss. Admin. Code Pt. 2, R. 6.3.A(3). | 5.B.4 | Hours of Operation | |
| AB-001 AC-001 AD-001 AE-001 AG-001 | 40 CFR 63.1317 and 63.1318(a), Subpart JJJ and 63.114(a)(3) and 63.116(b)(2), Subpart G | 5.B.5 | HAP | Testing and Compliance Demonstration |
| | 40 CFR 63.1615(a) and 63.1319, Subpart J and 63.117(a)(4)(iii), Subpart G | 5.B.6 | | Recordkeeping |
| AB-001 AC-001 AD-001 AE-001 AG-001 | 40 CFR 63.1331, Subpart JJJ | 5.B.7 | HAP | LDAR Program for Applicable Components |
| AB-002 AB-003 AB-004 AB-005 AB-006 AB-007 AB-008 AB-009 AB-010 AB-011 AC-002 AC-003 | 11 Miss. Admin. Code Pt. 2, R. 6.3.A(3). | 5.B.8 | Control Equipment Maintenance | Monitoring and Recordkeeping Requirements |

| Emission Point(s) | Applicable Requirement | Condition Number | Pollutant/Parameter Monitored | Monitoring/Recordkeeping Requirement |
|--|---|------------------|-------------------------------|---|
| AC-004 AC-005 AC-006 AC-007 AC-008 AC-009 AC-010 AC-011 AD-002 AD-003 AD-004 AD-005 AD-006 AD-007 AD-008 AF-001 AF-002 AF-003 AF-004 | | | | |
| AB-002 AB-003 AB-004 AB-005 AB-006 AB-007 AB-008 AB-009 AB-010 AB-011 AC-002 AC-003 AC-004 AC-005 AC-006 AC-007 AC-008 AC-009 AC-010 AC-011 AD-002 AD-003 AD-004 AD-005 AD-006 AD-007 AD-008 AF-001 AF-002 AF-003 AF-004 AH-001 AH-002 AH-003 AH-004 AH-005 AH-006 | 11 Miss. Admin. Code Pt. 2, R. 6.3.A(3). | 5.B.9 | Visible Emissions/Opacity | Weekly Monitoring and Recordkeeping of Visible Emissions |

| Emission Point(s) | Applicable Requirement | Condition Number | Pollutant/Parameter Monitored | Monitoring/Recordkeeping Requirement |
|--|---|------------------|---------------------------------------|--|
| AA-001 AA-002 AA-003 AA-004 AA-005 AA-006 | 11 Miss. Admin. Code Pt. 2, R.6.3.A(3)(a)(2). | 5.B.10 | NO _x and CO | Stack test in accordance with EPA Test Methods 7 and 10A. |
| AB-002 AB-003 AB-004 AB-005 AB-006 AB-007 AB-008 AB-009 AB-010 AC-002 AC-003 AC-004 AC-005 AC-006 AC-007 AC-008 AC-009 AC-010 AD-002 AD-003 AD-004 AD-005 AD-006 AD-007 AD-008 | 11 Miss. Admin. Code Pt. 2, R.6.3.A(3)(a)(2). | 5.B.11 | PM/PM ₁₀ (filterable only) | Stack test in accordance with EPA Test Methods 1 – 5. |
| AA-001 AA-002 AA-003 AA-004 AA-005 AA-006 | 11 Miss. Admin. Code Pt. 2, R.6.3.A(3)(a)(2). | 5.B.12 | NO _x and CO | Calculate and record the monthly NO _x and CO emissions. |
| AA-004 AA-005 AA-006 AA-011 AA-012 AA-013 | 40 CFR 63.7505(a), Subpart DDDDD | 5.B.13 | HAP | Demonstrate Compliance |

5.B.1 For Emission Points AA-001, AA-002, AA-003, AA-004, AA-005, and AA-006, the permittee shall record and maintain records of the amount of natural gas combusted during each day and 12-month rolling basis.

(Ref.: 40 CFR 60.48c(g), Subpart Dc and 11 Miss. Admin. Code Pt. 2, R. 6.3.A(3).)

5.B.2 For Emission Points AA-007 and AA-021, the permittee shall keep the following records:

- (a) A copy of each notification and report submitted to comply with this subpart, including all documentation supporting any Initial Notification or Notification of Compliance Status that you submitted, according to the requirement in 40 CFR 63.11(b)(2)(xiv).
- (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 all required maintenance performed on the air pollution control and monitoring equipment.
- (d) Records of actions taken during periods of malfunction to minimize emissions in accordance with Condition 3.B.16, including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation.

(Ref.: 40 CFR 63.6655(a), Subpart ZZZZ)

- 5.B.3 For Emission Points AA-007 and AA-021, the permittee shall keep records of the maintenance conducted on the stationary RICE in order to demonstrate that you operated and maintained the stationary RICE and after-treatment control device (if any) according to your own maintenance plan.

(Ref.: 40 CFR 63.6655(e), Subpart ZZZZ)

- 5.B.4 For Emission Points AA-007, AA-009, AA-010, and AA-021, the permittee shall keep records of the hours of operation of the engine that is recorded through the non-resettable hour meter. The permittee must document how many hours are spent for emergency operation, including what classified the operation as emergency and how many hours are spent for non-emergency operation.

(Ref.: 40 CFR 63.6655(f), Subpart ZZZZ and 11 Miss. Admin. Code Pt. 2, R. 6.3.A(3).)

- 5.B.5 There are no continuous process vent testing, compliance demonstration, or monitoring requirements for Emission Points AB-001, AC-001, AD-001, AE-001, and AG-001, since the continuous process vents are vented directly into the flame zone with the primary fuel.

(Ref.: 40 CFR 63.1317 and 63.1318(a), Subpart JJJ and 63.114(a)(3) and 63.116(b)(2), Subpart G)

- 5.B.6 For Emission Points AB-001, AC-001, AD-001, AE-001, and AG-001, the facility shall maintain a record of the description of the location at which the vent stream is introduced into the flame zone of each boiler or process heater.

(Ref.: 40 CFR, 63.1315(a), and 63.1319, Subpart JJJ and 63.117(a)(4)(iii), Subpart G)

5.B.7 For Emission Points AB-001, AC-001, AD-001, AE-001, and AG-001, the permittee shall comply with the recordkeeping requirements of 40 CFR 63.1331 by complying with 40 CFR 63.181. Subpart G, with the differences noted in 40 CFR 63.1331(a).

(Ref.: 40 CFR 63.1331, Subpart JJJ)

5.B.8 For Emission Points AB-002 through AB-011, AC-002 through AC-011, AD-002 through AD-008, and AF-001 through AF-004, the permittee shall perform regular inspections for any required maintenance each week or more often if necessary to maintain proper operation of the pollution control equipment.

The permittee shall also maintain on hand at all times sufficient equipment as is necessary to repair and/or replace the pollution control equipment.

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

5.B.9 For Emission Points AB-002 through AB-010, AC-002 through AC-010, AD-002 through AD-008, AF-001 through AF-004, and AH-001 through AH-006, the permittee shall conduct weekly inspection for visible emissions (VE) (five-minute interval). The permittee shall maintain a log noting the following:

- (a) Whether any air emissions (except water vapor) were visible from the emission point'
- (b) All emission points from which visible emissions occurred. If no VE are observed then no further observation are required.

For emission points with VE, the permittee shall record the following:

- (a) The color of the emissions,
- (b) Whether the emissions were light or heavy
- (c) The cause of the emissions
- (d) Any corrective action taken.

Upon observation of VE from any emission point, the frequency of observation for that emission point shall become daily until no VE is observed for three consecutive days. After three consecutive days of no VE, the inspection frequency may be reduced to weekly. If no VE are observed for three consecutive months of weekly observations, the frequency may be reduced to monthly. However, if VE are observed during a monthly inspection, the frequency of inspection shall revert to the daily then weekly schedule as specified above.

Upon detecting VE, the permittee shall immediately inspect the control device and take appropriate corrective action. Records of VE inspections and any corrective action taken shall be kept in log form and made available for review upon request.

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

- 5.B.10 For Emission Points AA-001, AA-002, and AA-003, the permittee shall demonstrate compliance with the NO_x and CO emission limits set forth in Section 3.B of this permit by stack testing one of the three heaters in accordance with EPA Test Methods 7 and 10A, or another EPA approved test method.

For Emission Points AA-004, AA-005, and AA-006, the permittee shall demonstrate compliance with the NO_x and CO emission limits set forth in Section 3.B of this permit by stack testing one of the three boilers in accordance with EPA Test Methods 7 and 10A, or other EPA approved test methods.

All test methods shall be those versions which are in effect upon permit issuance. The stack testing shall be performed with the emission units are operating as close to their maximum capacity as operating conditions allow. For purposes of demonstrating compliance with the opacity limit, the permittee shall conduct opacity observations concurrently with the performance tests.

The stack tests shall be performed every five years not to exceed 61 months from the previous test. The stack test shall alternate between emissions points until all emissions points have been tested.

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

- 5.B.11 For Emission Points AB-002 through AB-010, AC-002 through AC-010, and AD-002 through AD-008, the permittee shall demonstrate compliance with the PM emission limits set forth in Section 3.B of this permit by stack testing one of the two polymerization lines(AB-002 through AB-010, AC-002 through AC-010, or AD-002 through AD-008) in accordance with EPA Test Methods 1 through 5, or another EPA approved test method.

For Emission Points AD-002 through AD-008, the permittee shall demonstrate compliance with the PM emission limits set forth in Section 3.B of this permit by stack testing in accordance with EPA Test Methods 1 through 5, or other EPA approved test methods.

All test methods shall be those versions which are in effect upon permit issuance. The stack testing shall be performed with the emission units are operating as close to their maximum capacity as operating conditions allow. For purposes of demonstrating compliance with the opacity limit, the permittee shall conduct opacity observations concurrently with the performance tests.

The stack tests shall be performed every five years not to exceed 61 months from the

previous test. The stack tests shall alternate between emissions points until all emissions points have been tested.

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

- 5.B.12 For Emission Points AA-001 through AA-006, the permittee shall calculate and record the emissions in tons of NO_x and CO from each heater and boiler monthly and for each consecutive 12-month period on a rolling basis. The emissions shall be calculated using the monthly fuel usage for each heater and boiler and the results of the most recent stack test (as expressed in lb/MMBtu, lb/dscf, etc.). If there are no stack test results available, the permittee shall use the manufacturer's guarantee. The monthly emissions shall be used to demonstrate compliance with the combined tons/year emission limits in Section 3.B for each consecutive 12-month period on a rolling basis.

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

- 5.B.13 For Emission Points AA-004, AA-005, AA-006, AA-011, AA-012, and AA-013, the permittee shall be in compliance with the work practice standards at all times when unit is operating.

(Ref.: 40 CFR 63.7505(a), Subpart DDDDD)

C. Specific Reporting Requirements

| Emission Point(s) | Applicable Requirement | Condition Number | Pollutant/Parameter Monitored | Reporting Requirement |
|--|--|------------------|---------------------------------------|---|
| AA-001 AA-002 AA-003 AA-005 AA-006 AA-007 AA-009 AA-010 AA-011 AA-012 AA-013 | 11 Miss. Admin. Code Pt. 2, R. 6.3.A(3). | 5.C.1 | Fuel | Semiannual Reports of Fuel Usage |
| AB-001 AC-001 AD-001 AE-001 | 40 CFR 63.1335(e)(6), Subpart, Subpart JJJ | 5.C.2 | HAP | Semiannual Reports |
| AA-001 AA-002 AA-003 AA-004 AA-005 AA-006 | 11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)(c)(1). | 5.C.3 | NOx and CO | Submit a stack test report within 60 days of conducting the stack test. |
| AB-002 AB-003 AB-004 AB-005 AB-006 AB-007 AB-008 AB-009 AB-010 AC-002 AC-003 AC-004 AC-005 AC-006 AC-007 AC-008 AC-009 AC-010 AD-002 AD-003 AD-004 AD-005 AD-006 AD-007 AD-008 | 11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)(c)(1). | 5.C.3 | PM/PM ₁₀ (filterable only) | Submit a stack test report within 60 days of conducting the stack test. |

| Emission Point(s) | Applicable Requirement | Condition Number | Pollutant/Parameter Monitored | Reporting Requirement |
|--|---|------------------|-------------------------------|---|
| AA-001 AA-002 AA-003 AA-004 AA-005 AA-006 | 11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)(c)(1). | 5.C.4 | NO _x and CO | Semiannual Emissions Reports |
| AA-007 AA-009 AA-010 AA-021 | 11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)(c)(1). | 5.C.5 | HAP | Semiannual Report of Hours of Operation |
| AA-004 AA-005 AA-006 | 40 CFR 63.7545(a), Subpart DDDDD | 5.C.6 | HAP | General Notifications |
| AA-011 AA-012 AA-013 | 40 CFR 63.7545(f), Subpart DDDDD | 5.C.7 | | Other Fuel Notification |
| | 40 CFR 63.7545(h), Subpart DDDDD | 5.C.8 | | Change Notification |
| | 40 CFR 63.7540(b), 63.7550(a), (b)(5), (c)(1), and (5), (d), (h)(3), and Table 9 of Subpart DDDDD | 5.C.9 | | Compliance Reports |
| AA-007 AA-021 | 40 CFR 63.6640(b), 63.6650(a) through (d), and Footnote 2 to Table 2d of Subpart ZZZZ | 5.C.10 | HAP | Reporting |

5.C.1 For Emission Points AA-001, AA-002, AA-003, AA-004, AA-005, AA-006, AA-007, AA-009, AA-010, AA-011, AA-012, and AA-013, the permittee shall submit semiannual reports in accordance with Condition 5.A.4 providing the fuel usage for each consecutive 12-month period on a rolling basis.

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

5.C.2 For Emission Points AB-001, AC-001, AD-001, and AE-001, the permittee shall submit the following semiannual reports in accordance with Condition 5.A.4 which contain all applicable information in 40 CFR 63.1335(e)(6) including:

- (a) A description of the location at which the vent stream is introduced into the flame zone of the boiler or process heater.
- (b) The reporting requirements outlined in 40 CFR 63.182(d), with the differences noted in 40 CFR 63.1131(a)(5).

- (c) All information specified in 40 CFR 63.1335(b)(1) regarding start-up, shutdown, and malfunctions.

(Ref.: 40 CFR 63.1335(e)(6), Subpart JJJ)

- 5.C.3 For Emission Points AA-001, AA-002, AA-003, AA-004, AA-005, AA-006, AB-002 through AB-010, AC-002 through AC-010, and AD-002 through AD-008, the permittee shall submit a test protocol at least thirty (30) days prior to the scheduled test date to ensure that all test methods and procedures are acceptable to the DEQ. If the initial stack test protocol is acceptable, subsequent test protocols may be waived if these protocols contain no significant changes. Also, the DEQ must be notified at least ten (10) days prior to the scheduled test date so that an observer may be scheduled to witness the test(s).

The permittee shall submit a report of any stack test results within sixty (60) days of conducting the respective stack test.

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

- 5.C.4 For Emission Points AA-001, AA-002, AA-003, AA-004, AA-005, and AA-006, the permittee shall submit a semiannual report in accordance with Condition 5.A.4 of the monthly NO_x and CO emissions in tons from each emission point and the total NO_x and CO emissions for each consecutive 12-month period on a rolling basis, in tons/year. The report shall show the combined NO_x and CO emissions from AA-001 through AA-003 and AA-004 through AA-006, in tons/year, for each consecutive 12-month period on a rolling basis.

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

- 5.C.5 For Emission Points AA-007, AA-009, AA-010, and AA-021, the permittee shall submit semi-annual reports, in accordance with Condition 5.A.4, of the hours of operation recorded through the non-resettable hour meter. The report shall detail how many hours are spent for emergency operation, including what classified the operation as emergency and how many hours are spent for non-emergency operation.

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

- 5.C.6 For Emission Points AA-004, AA-005, AA-006, AA-011, AA-012, and AA-013, the permittee shall submit to DEQ all the notifications in 40 CFR 63.7(b) and (c), 63.8(e), (f)(4) and (6), and 63.9(b) through (h) that apply by the dates specified.

(Ref.: 40 CFR 63.7545(a), Subpart DDDDD)

- 5.C.7 For Emission Points AA-004, AA-005, AA-006, AA-011, AA-012, and AA-013, if the permittee operates a unit designed to burn natural gas, refinery gas, or other gas 1 fuels that is subject to this subpart, and intends to use a fuel other than natural gas, refinery gas, gaseous fuel subject to another subpart of part 60, 61, 63, or 65, or other gas 1 fuel to fire

the affected unit during a period of natural gas curtailment or supply interruption, as defined in 40 CFR 63.7575, the permittee shall submit a notification of alternative fuel use within 48 hours of the declaration of each period of natural gas curtailment or supply interruption, as defined in 40 CFR 63.7575. The notification must include the information specified in 40 CFR 63.7545(f)(1) through (5).

(Ref.: 40 CFR 63.7545(f), Subpart DDDDD)

5.C.8 For Emission Points AA-004, AA-005, AA-006, AA-011, AA-012, and AA-013, if the permittee has switched fuels or made a physical change to the boiler or process heater and the fuel switch or physical change resulted in the applicability of a different subcategory, the permittee shall provide notice of the date upon which you switched fuels or made the physical change within 30 days of the switch/change. The notification must identify:

- (a) The name of the owner or operator of the affected source, as defined in 40CFR 63.7490, the location of the source, the boiler(s) and process heater(s) that have switched fuels, were physically changed, and the date of the notice.
- (b) The currently applicable subcategory under this subpart.
- (c) The date upon which the fuel switch or physical change occurred.

(Ref.: 40 CFR 63.7545(h), Subpart DDDDD)

5.C.9 For Emission Points AA-004, AA-005, AA-006, AA-011, AA-012, and AA-013, the permittee shall submit a compliance report annually, biennially, or every 5 years as applicable. This reporting period corresponds with the requirement to conduct a tune-up on each boiler. The compliance report shall contain the following:

- (a) Company and Facility name and address.
- (b) Process unit information, emissions limitations, and operating parameter limitations.
- (c) Date of report and beginning and ending dates of the reporting period.
- (d) Include the date of the most recent tune-up for each unit subject to only the requirement to conduct a tune-up. Include the date of the most recent burner inspection if it was not done during the tune-up time period and was delayed until the next scheduled or unscheduled unit shutdown.
- (e) A statement by a responsible official with that official's name, title, and signature, certifying the truth, accuracy, and completeness of the content of the report.

In addition to the information required above, if there are no deviations from the operating limits or work practice standards for periods of startup and shutdown from Table 3 of Subpart DDDDD, the report shall also include a statement that there were no deviations from the standards during the reporting period. If there is a deviation from an operating limit or work practice standard for periods of startup and shutdown, the report must also contain the following information:

- (a) A description of the deviation and which emission limit, operating limit, or work practice standard from which you deviated.
- (b) Information on the number, duration, and cause of deviations (including unknown cause), as applicable, and the corrective action taken.

The permittee must submit all reports required by Table 9 of Subpart DDDDD electronically to the EPA via the CEDRI (CEDRI can be accessed through the EPA's CDX.) You must use the appropriate electronic report in CEDRI for this subpart. Instead of using the electronic report in CEDRI for this subpart, you may submit an alternate electronic file consistent with the XML schema listed on the CEDRI Web site (<http://www.epa.gov/ttn/chief/cedri/index.html>), once the XML schema is available. 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 MDEQ. You must begin submitting reports via CEDRI no later than 90 days after the form becomes available in CEDRI.

(Ref.: 40 CFR 63.7540(b), 63.7550(a), (b)(5), (c)(1) and (5), (d), (h)(3), and Table 9 of Subpart DDDDD)

5.C.10 For Emission Points AA-007 and AA-021, the permittee shall report in accordance with Condition 5.A.4 each instance in which the work practices listed in Conditions 3.D.3 and 3.D.4 were not met. These deviations shall be reported according to the following requirements:

- (a) If there were no deviations from any applicable emission limitations or operating limitations, a statement shall be included that there were no deviations from the emission limitations or operating limitations during the reporting period; or
- (b) If there was a deviation from any emission limitation or operating limitation during the reporting period, then the compliance report shall contain the following information:
 - (1) Company name and address.
 - (2) Statement by a responsible official, with that official's name, title, and signature, certifying the accuracy of the content of the report.
 - (3) Date of report and beginning and ending dates of the reporting period.
 - (4) The total operating time of the stationary RICE at which the deviation occurred during the reporting period.
 - (5) Information on the number, duration, and cause of deviations (including unknown cause, if applicable), as applicable, and the corrective action taken.
- (c) If there was a malfunction during the reporting period, the compliance report shall include the number, duration, and a brief description for each type of malfunction which occurred during the reporting period and which caused or may have caused any applicable emission limitation to be exceeded. The report shall also include a description of actions taken by the permittee during a malfunction of an affected source to minimize emissions in accordance with Condition 3.B.16, including actions taken to correct a malfunction.

(Ref.: 40 CFR 63.6640(b), 63.6650(a) through (d), and Footnote 2 to Table 2d of Subpart ZZZZ, Subpart ZZZZ)

SECTION 6. ALTERNATIVE OPERATING SCENARIOS

6.1 None permitted.

SECTION 7. TITLE VI REQUIREMENTS

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

- 7.1 If the permittee produces, transforms, destroys, imports or exports a controlled substance or imports or exports a controlled product, the permittee shall comply with the applicable requirements of 40 CFR 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 containing class I, class II or non-exempt substitute refrigerants;
 - (b) Disposing of appliances, including small appliances and motor vehicle air conditioners; or
 - (c) Refrigerant reclaimers, technician certifying programs, appliance owners and operators, manufacturers of appliances, manufacturers of recycling and recovery equipment, approved recycling and recovery equipment testing organizations, as well

as persons selling, offering for sale, and/or purchasing class I, class II, or non-exempt substitute refrigerants.

- 7.5 The permittee shall be allowed to switch from any ozone-depleting substance to any acceptable alternative that is listed in the Significant New Alternatives Policy (SNAP) program promulgated pursuant to 40 CFR 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

| | |
|-------------------|--|
| 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 |
| lb/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 |
| PM _{2.5} | Particulate Matter less than 2.5 µm in diameter |
| ppm | Parts per Million |
| PSD | Prevention of Significant Deterioration |
| SIP | State Implementation Plan |
| SO ₂ | Sulfur Dioxide |
| SSM | Startup, Shutdown, and Malfunction |
| TPY | Tons per Year |
| TRS | Total Reduced Sulfur |
| VEE | Visible Emissions Evaluation |
| VHAP | Volatile Hazardous Air Pollutant |
| VOHAP | Volatile Organic Hazardous Air Pollutant |
| VOC | Volatile Organic Compound |