STATE OF MISSISSIPPI
AIR POLLUTION CONTROL
TITLE V PERMIT

TO OPERATE AIR EMISSIONS EQUIPMENT

THIS CERTIFIES THAT

Tronox LLC, Hamilton Facility
40034 Tronox Road
Hamilton, Monroe County, Mississippi

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: October 9, 2023

Effective Date: As specified herein.

MISSISSIPPI ENVIRONMENTAL QUALITY PERMIT BOARD

Krystal Rudolph

AUTHORIZED SIGNATURE
MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY

Expires: September 30, 2028 **Permit No.: 1840-00035**

8587 PER20120001

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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 MDEQ 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 MDEQ within a reasonable time any information the MDEQ 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 MDEQ copies of records required to be kept by the permittee or, for information to be confidential, the permittee shall furnish such records to MDEQ 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 MDEQ 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 MDEQ 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 MDEQ 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 MDEQ, 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 MDEQ 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 MDEQ within 2 working days of the time when emission limitations were exceeded due to the emergency. This notice must contain a description of the emergency, any steps taken to mitigate emissions, and corrective actions taken.

(d) In any enforcement proceeding, the permittee seeking to establish the occurrence of an emergency has the burden of proof.

(e) This provision is in addition to any emergency or upset provision contained in any applicable requirement specified elsewhere herein.

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

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

(a) Upsets (as defined in 11 Miss. Admin. Code Pt. 2, R. 1.2.)

(1) For an upset, the Commission may pursue an enforcement action for noncompliance with an emission standard or other requirement of an applicable rule, regulation, or permit. In determining whether to pursue enforcement action, and/or the appropriate enforcement action to take, the Commission may consider whether the source has demonstrated through properly signed contemporaneous operating logs or other relevant evidence the following:

(i) An upset occurred and that the source can identify the cause(s) of the upset;

(ii) The source was at the time being properly operated;

(iii) During the upset the source took all reasonable steps to minimize levels of emissions that exceeded the emission standard or other requirement of an applicable rule, regulation, or permit;

(iv) That within 5 working days of the time the upset began, the source submitted a written report to the Department describing the upset, the steps taken to mitigate excess emissions or any other noncompliance, and the corrective actions taken and;

(v) That as soon as practicable but no later than 24 hours of becoming aware of an upset that caused an immediate adverse impact to human health or the environment beyond the source boundary or caused a general nuisance to the public, the source provided notification to the Department.

(2) In any enforcement proceeding by the Commission, the source seeking to establish the occurrence of an upset has the burden of proof.

(3) This provision is in addition to any upset provision contained in any applicable requirement.

(4) These upset provisions apply only to enforcement actions by the Commission and are not intended to prohibit EPA or third party enforcement actions.

(b) Startups and Shutdowns (as defined in 11 Miss. Admin. Code Pt. 2, R. 1.2.)

(1) Startups and shutdowns are part of normal source operation. Emission limitations apply during startups and shutdowns unless source specific emission limitations or work practice standards for startups and shutdowns are defined by an applicable rule, regulation, or permit.

(2) Where the source is unable to comply with existing emission limitations established under the State Implementation Plan (SIP) and defined in this regulation, 11 Mississippi Administrative Code, Part 2, Chapter 1, the Department will consider establishing source specific emission limitations or work practice standards for startups and shutdowns. Source specific emission limitations or work practice standards established for startups and shutdowns are subject to the requirements prescribed in 11 Miss. Admin. Code Pt. 2, R. 1.10.B(2)(a) through (e).

(3) Where an upset as defined in Rule 1.2 occurs during startup or shutdown, see the upset requirements above.

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

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

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

SECTION 2. EMISSION POINTS & POLLUTION CONTROL DEVICES

Emission Point	Description
000	Facility wide
Reciprocating Internal Combustion Engines	
100	210 hp Diesel Fired Emergency Engine. Installed in 1976.
110	210 hp Diesel Fired Emergency Engine. Installed in 1975.
120	210 hp Diesel Fired Emergency Engine. Installed in 1993.
121	150 hp Diesel Fired Emergency Engine. Installed in 1996.
122	150 hp Diesel Fired Emergency Engine. Installed in 1985.
123	150 hp Diesel Fired Emergency Engine. Installed in 1997.
125	25 kW, 0.62 MMBTU/hr Natural Gas Fired Emergency Generator for Plant Network. Installed in 2011
180	15 kW (24 hp) Diesel Fired Emergency Generator. Installed in 2023
510	607 hp, 5.4 MMBTU/hr, Natural Gas Fired Emergency Generator. Installed in 1998.
511	607 hp, 5.4 MMBTU/hr, Natural Gas Fired Emergency Generator. Installed in 1998.
513	909 hp Diesel-Fired Emergency Generator Engine installed in 2020. .
514	909 hp Diesel-Fired Emergency Generator Engine installed in 2020. .
515	909 hp Diesel-Fired Emergency Generator Engine installed in 2020. .
Ore and Coke Handling and Wastewater Pretreatment	
101	Coke Storage Silo equipped with a baghouse
102	Raw Ore Transfer System and Storage Silo equipped with a baghouse
104	Ore Conveying Baghouse
105	Coke Unloading and Conveying Baghouse
1020, 1030, 1032, 1040, 1050, 1060, 1070, 1080, 1081, 1090, 1120, 3090,	Fugitive Emissions from Raw Material Handing Operations
Chlorination Section	
201	Chlorination Snake Scrubber

Emission Point	Description
202	Chlorination Section Waste Gas System Emergency Vent Stack
205	Lime Storage Silo equipped with a baghouse
207	33 MMBTU/hr Waste Gas Incinerator #1 with SO_2 Scrubber
208	33 MMBTU/hr Waste Gas Incinerator #2 with SO_2 Scrubber
209	33 MMBTU/hr Waste Gas Incinerator #3 with SO_2 Scrubber
210	Chlorinator Sump Scrubber
2110	Hydrogen Chloride Railcar Loading
2120	Titanium Tetrachloride ($TiCl_4$) Handling and Storage
2140	Lime Sump (F-561), emissions routed to baffle spray scrubber, Emission Point 201
2141	Lime Sump (F-1571), emissions routed to baffle spray scrubber, Emission Point 201
Oxidation Section (Unit 300)	
302	Two (2) Baffle Tray Scrubbers operated in series Snake Scrubbers
303	4.0 MMBTU/hr Natural Gas Fired A-line Oxygen Preheater
304	4.0 MMBTU/hr Natural Gas Fired B-line Oxygen Preheater
305	4.0 MMBTU/hr Natural Gas Fired C-line Oxygen Preheater
306	8.0 MMBTU/hr Natural Gas Fired D-line Oxygen Preheater
307	8.0 MMBTU/hr Natural Gas Fired A-line Titanium Tetrachloride ($TiCl_4$) Preheater
308	8.0 MMBTU/hr Natural Gas Fired B-line Titanium Tetrachloride ($TiCl_4$) Preheater
309	8.0 MMBTU/hr Natural Gas Fired C-line Titanium Tetrachloride ($TiCl_4$) Preheater
310	9.2 MMBTU/hr Natural Gas Fired D-line Titanium Tetrachloride ($TiCl_4$) Preheater
318	8.0 MMBTU/hr Natural Gas Fired E-line Titanium Tetrachloride ($TiCl_4$) Preheater
319	4.0 MMBTU/hr Natural Gas Fired E-line Oxygen Preheater
321	$TiCl_4$ Vaporizer Fugitive Emission Capture System equipped with a venturi type scrubber and packed column caustic scrubber
322	Pneumatic Bulk Sand System equipped with a Baghouse
323	8.0 MMBTU/hr Natural Gas Fired F-line Titanium Tetrachloride ($TiCl_4$) Preheater
324	4.0 MMBTU/hr Natural Gas Fired F-line Oxygen Preheater

Emission Point	Description
336	Vibrating Fluid Bed Dryer with a 2 MMBTU/hr Natural Gas-Fired burner equipped with a baghouse
3170	Chlorine Samples
3180	Calgon Tank Batch Mixing
3120, 3140, 3190	Fugitive Emissions from the Oxidation Section
Finishing Section (Unit 400)	
403	Macaroni Bin equipped with a Baghouse which is vented to Emission Point 422
404	Micronizers Vacuum System equipped with Scrubbers
405	Micronizers Vacuum System equipped with Scrubbers
406	Finishing Section Treatment Tank Scrubbing System controlling emissions from three (3) treatment tanks
409	29.7 MMBTU/hr Natural Gas Fired Tunnel Dryer
410	8.3 MMBTU/hr Natural Gas Fired Steam Super heater
415	Reclaim System Baghouse vented to Emission Point 433
420	8.3 MMBTU/hr Natural Gas Fired Steam Superheater
421	Process Guard Baghouse vented to Emission Point 422
422	Train 1 Dust Collection System equipped with Baghouses
423	Pigment Bulk Packaging System vented to Emission Point 422
424	Micronizer Vacuum System equipped with a Scrubber
425	Micronizer Vacuum System equipped with a Scrubber
426	50 MMBTU/hr Natural Gas Fired Spray Dryer equipped with a Baghouse.
430	8.3 MMBTU/hr Natural Gas Fired Steam Super heater
433	Train 2 Dust Collection System equipped with Baghouses
436	Treatment Tank Scrubber
440	8.3 MMBTU/hr Natural Gas Fired Steam Super heater
441	Finishing Section Slurry System including High Speed Disperser Tank System, super sack unloading and surge drum with emissions routed to Pulse Jet Baghouse
442	Swirl fluidized Bed Dryer with natural Gas-fired 34 MM Btu low-NOx burner and equipped with two (2) baghouses in parallel for product capture

Emission Point	Description
Miscellaneous	
505	Quality Control Lab equipped with a Packed Tower Caustic Scrubber
506	180.0 MMBTU/hr Natural Gas Fired Process Boiler.
507	Natural Gas Fired Rental (Temporary) Backup Boiler sized equal to or smaller than the boiler needing repairs
512	233 MMBTU/hr Natural Gas-Fired Boiler equipped with low-NOx burners and flue gas recirculation.
5020	Propane and/or Toluene Valve Fugitives (Plant Wide)
5040	Natural Gas Valve Fugitives (Plant Wide)
5070	0.75 MMBtu/hr Natural Gas Heater
5092	Cooling Tower
5093	Cooling Tower
5094	Plant 3 Cell Cooling Tower
5100	Fugitives from Vehicles on Road
Synthetic Rutile Recovery Plant	
801	6.0 MMBTU/hr Natural Gas Fired Fluid Bed Dryer equipped with a Baghouse and Caustic Scrubber. Subject to NSPS Subpart UUU
802	Product Silo equipped with a baghouse

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
100 110 120 121 122 123 125 180 303 304 305 306 307 308 309 310 318 319 323 324 336 410 420 430 440 510 511 513 514 515 5070 801	11 Miss. Admin. Code Pt. 2, R. 1.3.D(1)(a).	3.B.1	PM (filterable only)	0.6 lb/MMBtu
100 110 120 121 122 123 125 180 510 511 513 514 515	National Emission Standards for Hazardous Air Pollutants (NESHAP) for Stationary Reciprocating Internal Combustion Engines (RICE), 40 CFR 63, Subpart ZZZZ 40 CFR 63.6580, 63.6585(a) and (b), 63.6590(a)(1)(i), 63.6590(a)(1)(ii), (a)(2)(i), (a)(2)(ii), (b)(1)(i), (b)(3)(iii) (c)(4), and (c)(7)	3.B.2	HAP	Applicability
	40 CFR 63.6605(a) and (b), Subpart ZZZZ	3.B.3	HAP	General Requirements

Emission Point(s)	Applicable Requirement	Condition Number(s)	Pollutant/ Parameter	Limit/Standard
100 110 120 121 122 123	40 CFR 63.6604(b), Subpart ZZZZ and 40 CFR 1090.305	3.B.4	HAP	Max sulfur content of diesel fuel ≤ 15 ppm Min. cetane index of 40 or max aromatic content of 35 volume percent.
100 110 120 121 122 123 510 511 513 514 515	40 CFR 63.6625(f), Subpart ZZZZ and 11 Miss. Admin. Code Pt. 2, R. 2.2.B(10).	3.B.5	HAP	Install a non-resettable hour meter if one is not already installed.
100 110 120 121 122 123 510 511 513 514 515	40 CFR 63.6640(f)(1)-(3), Subpart ZZZZ and 11 Miss. Admin. Code Pt. 2, R. 2.2.B(10).	3.B.6	HAP	Operating Requirements
125	New Source Performance Standards (NSPS) for Stationary Spark Ignition Internal Combustion Engines, 40 CFR, Subpart JJJJ 40 CFR 60.4230(a)(4)(iv), Subpart JJJJ	3.B.7	NOx + HC CO VOC	Applicability
	40 CFR 60.4233(d), 60.4234, and Table 1, Subpart JJJJ	3.B.8	NOx + HC	10 g/HP-hr
			CO	387 g/HP-hr
	40 CFR 60.4243(b)(1), Subpart JJJJ	3.B.9	NOx CO VOC	Purchase, operate, and maintain certified engine
	40 CFR 60.4243(d)(1)-(3), Subpart JJJJ	3.B.10	NOx CO VOC	Operating requirements
	40 CFR 60.4237 (c), Subpart JJJJ	3.B.11	NOx CO VOC	Install a non-resettable hour meter

Emission Point(s)	Applicable Requirement	Condition Number(s)	Pollutant/ Parameter	Limit/Standard
180 513 514 515	New Source Performance Standards (NSPS) for Stationary Compression Ignition Internal Combustion Engines, 40 CFR 60, Subpart IIII 40 CFR 60.4200(a)(2)(i), Subpart III	3.B.12	NMHC + NOx PM (filterable only) CO SO_2	Applicability
180	40 CFR 60.4205(b), 60.4202(a)(1)(ii), 60.4206, and Table 2, Subpart IIII	3.B.13	NMHC + NOx	5.6 g/HP-hr
			CO	4.9 g/HP-hr
			PM	0.30 g/HP-hr
513 514 515	11 Miss. Admin. Code Pt. 2, R. 2.2.B(10)., as established in Permit to Construct issued July 10, 2019, and 40 CFR 60.4205(b), 60.4202(a)(2), and 60.4206, Subpart IIII and 40 CFR 1039 Appendix I (b)	3.B.14	NMHC + NOx	6.4 g/kW-hr
			CO	3.5 g/kW-hr
			PM (filterable only)	0.20 g/kW-hr
180 513 514 515	40 CFR 60.4207(b), Subpart IIII and 40 CFR 1090.305	3.B.15	Fuel	Max sulfur content of diesel fuel ≤15 ppm
				Min. cetane index of 40 or max aromatic content of 35 volume percent.
	40 CFR 60.4211(a)(1)-(3) and (c), Subpart IIII	3.B.16	NMHC + NOx CO PM (filterable only)	Purchase, operate, and maintain certified engine
	40 CFR 60.4211(f)(1)-(3), Subpart IIII	3.B.17		Operating requirements
	11 Miss. Admin. Code Pt. 2, R. 2.2.B(10)., as established in Permit to Construct issued July 10, 2019, and 40 CFR 60.4209(a), Subpart IIII	3.B.18		Install a non-resettable hour meter
101	11 Miss. Admin. Code Pt. 2, R. 2.2.B(10)., as established in Permit to Construct issued June 28, 1994	3.B.19	PM/PM_{10} (filterable only)	1.0 lb/hr and 4.38 tpy
102	11 Miss. Admin. Code Pt. 2, R. 2.2.B(10)., as established in Permit to Operate issued September 22, 1992	3.B.20	PM/PM_{10} (filterable only)	1.0 lb/hr and 4.38 tpy
104	11 Miss. Admin. Code Pt. 2, R. 1.3.F(1).	3.B.21	PM (filterable only)	$E = 4.1p^{0.67}$

Emission Point(s)	Applicable Requirement	Condition Number(s)	Pollutant/ Parameter	Limit/Standard
201	11 Miss. Admin. Code Pt. 2, R. 2.2.B(10)., as established in PSD Construction Permit issued November 14, 1995	3.B.22	PM/PM_{10} (filterable only)	0.8 lb/hr and 3.5 tpy
		3.B.23	CO	20.0 lb/hr and 87.6 tpy
		3.B.24	Chlorine	1.0 lb/hr and 4.38 tpy
		3.B.25	HCl	1.0 lb/hr and 4.38 tpy
202	11 Miss. Admin. Code Pt. 2, R. 2.2.B(10)., as established in PSD Construction Permit issued November 14, 1995	3.B.26	HCl and Chlorine	Process waste gases must be scrubbed to remove HCl and Cl_2 prior to discharge to the atmosphere
		3.B.27	Hours of operation	< 2,500 hr/yr
207 208 209	11 Miss. Admin. Code Pt. 2, R. 2.2.B(10)., as established in PSD Construction Permit issued November 14, 1995	3.B.29	PM/PM_{10} (filterable only)	3.0 lb/hr and 13.14 tpy
	11 Miss. Admin. Code Pt. 2, R. 2.2.B(10)., as established in PSD Construction Permit issued November 14, 1995	3.B.30	SO_2	5.0 lb/hr and 21.90 tpy
	11 Miss. Admin. Code Pt. 2, R. 1.4.B(1).	3.B.28		500 ppmv
	11 Miss. Admin. Code Pt. 2, R. 2.2.B(10)., as established in PSD Construction Permit issued November 14, 1995	3.B.31	NO_x	8.0 lb/hr and 35.04 tpy
	11 Miss. Admin. Code Pt. 2, R. 2.2.B(10)., as established in PSD Construction Permit issued November 14, 1995	3.B.32	CO	6.0 lb/hr
				26.28 tpy (combined limit)
	11 Miss. Admin. Code Pt. 2, R. 2.2.B(10)., as established in PSD Construction Permit issued November 14, 1995	3.B.33	VOC	1 lb/hr and 4.38 tpy
	New Source Performance Standards (NSPS) for Small Industrial- Commercial- Institutional Steam Generating Units, 40 CFR 60, Subpart Dc 40 CFR 60.40c(a), Subpart Dc	3.B.34	PM SO_2	Applicability

Emission Point(s)	Applicable Requirement	Condition Number(s)	Pollutant/ Parameter	Limit/Standard
210	11 Miss. Admin. Code Pt. 2, R. 2.2.B(10)., as established in PSD Construction Permit issued November 14, 1995	3.B.35	PM/PM_{10} (filterable only)	0.5 lb/hr and 2.19 tpy
		3.B.36	CO	20.0 lb/hr and 87.6 tpy
		3.B.37	Chlorine	1.0 lb/hr and 4.38 tpy
		3.B.38	HCl	1.0 lb/hr and 4.38 tpy
302	11 Miss. Admin. Code Pt. 2, R. 2.2.B(10)., as established in PSD Construction Permit issued November 14, 1995	3.B.39	PM/PM_{10} (filterable only)	3.0 lb/hr and 13.14 tpy
		3.B.37	Chlorine	1.0 lb/hr and 4.38 tpy
		3.B.38	HCl	1.0 lb/hr and 4.38 tpy
303 304 305 307 308 309 318 319 323 324	11 Miss. Admin. Code Pt. 2, R. 2.2.B(10)., as established in PSD Construction Permit issued November 14, 1995	3.B.40	PM/PM_{10} (filterable only)	0.20 lb/hr and 0.876 tpy
		3.B.41	NO_x	3.0 lb/hr and 13.14 tpy
	11 Miss. Admin. Code Pt. 2, R. 2.2.B(10)., as established in PSD Construction Permit issued December 19, 2003	3.B.42	CO	1.5 lb/hr and 6.57 tpy
	11 Miss. Admin. Code Pt. 2, R. 2.2.B(10)., as established in PSD Construction Permit issued November 14, 1995	3.B.43	VOC	0.50 lb/hr and 2.19 tpy
		3.B.44	SO_2	0.10 lb/hr and 0.438 tpy
	11 Miss. Admin. Code Pt. 2, R. 2.2.B(10)., as established in Title V Permit issued on March 2, 1999, and modified on September 12, 2002	3.B.45	Fuel	Natural Gas Only
306	11 Miss. Admin. Code Pt. 2, R. 2.2.B(10)., as established in PSD Construction Permit issued November 14, 1995	3.B.40	PM/PM_{10} (filterable only)	0.20 lb/hr and 0.876 tpy
		3.B.41	NO_x	3.0 lb/hr and 13.14 tpy
		3.B.43	VOC	0.50 lb/hr and 2.19 tpy
		3.B.44	SO_2	0.10 lb/hr and 0.438 tpy
	11 Miss. Admin. Code Pt. 2, R. 2.2.B(10)., as established in PSD Construction Permit issued December 19, 2003	3.B.42	CO	0.11 lb/hr and 0.5 tpy (PSD avoidance)

Emission Point(s)	Applicable Requirement	Condition Number(s)	Pollutant/ Parameter	Limit/Standard
306	11 Miss. Admin. Code Pt. 2, R. 2.2.B(10)., as established in Title V Permit issued on March 2, 1999, and modified on September 12, 2002	3.B.45	Fuel	Natural Gas Only
310	11 Miss. Admin. Code Pt. 2, R. 2.2.B(10)., as established in PSD Construction Permit issued November 14, 1995	3.B.40	PM/PM_{10} (filterable only)	0.20 lb/hr and 0.876 tpy
		3.B.41	NO_x	3.0 lb/hr and 13.14 tpy
		3.B.43	VOC	0.50 lb/hr and 2.19 tpy
		3.B.44	SO_2	0.10 lb/hr and 0.438 tpy
	11 Miss. Admin. Code Pt. 2, R. 2.2.B(10)., as established in PSD Construction Permit issued December 19, 2003	3.B.42	CO	0.19 lb/hr and 0.85 tpy (PSD avoidance)
	11 Miss. Admin. Code Pt. 2, R. 2.2.B(10)., as established in Title V Permit issued on March 2, 1999, and modified on September 12, 2002	3.B.45	Fuel	Natural Gas Only
303 304 305 306 307 308 309 310 318 319 323 324 410 420 430 440 506 507 512 5070	National Emission Standards for Hazardous Air Pollutants (NESHAP) for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters, 40 CFR 63, Subpart DDDDD 40 CFR 63.7480, 63.7485, 63.7490(a), (b) and (d), 63.7491(j), 63.7499(l) and 63.7500 (e), Subpart DDDDD	3.B.46	HAP	Applicability

Emission Point(s)	Applicable Requirement	Condition Number(s)	Pollutant/ Parameter	Limit/Standard
303 304 305 306 307 308 309 310 318 319 323 324 410 420 430 440 506 512 5070	40 CFR 63.7500(a)(3) and (f), and 63.7505(a), Subpart DDDDD	3.B.47	HAP	Operating requirements
321	11 Miss. Admin. Code Pt. 2, R. 2.2.B(10)., as established in Permit to Operate issued September 22, 1992	3.B.20	PM/PM_{10} (filterable only)	1.0 lb/hr and 4.38 tpy
		3.B.37	Chlorine	1.0 lb/hr and 4.38 tpy
		3.B.38	HCl	1.0 lb/hr and 4.38 tpy
322	11 Miss. Admin. Code Pt. 2, R. 2.2.B(10)., as established in PSD Construction Permit issued November 14, 1995	3.B.35	PM/PM_{10} (filterable only)	0.50 lb/hr and 2.19 tpy
404	11 Miss. Admin. Code Pt. 2, R. 2.2.B(10)., as established in Permit to Construct issued June 28, 1988, and modified through Permit to Operate on June 8, 1993	3.B.48	PM/PM_{10} (filterable only)	1.0 lb/hr and 4.38 tpy
405	11 Miss. Admin. Code Pt. 2, R. 2.2.B(10)., as established in Permit Operate issued September 22, 1992, and modified on June 8, 1993	3.B.49	PM/PM_{10} (filterable only)	1.215 lb/hr and 5.32 tpy
406	11 Miss. Admin. Code Pt. 2, R. 2.2.B(10)., as established in PSD Construction Permit issued November 14, 1995	3.B.35	PM/PM_{10} (filterable only)	0.50 lb/hr and 2.19 tpy
		3.B.50	pH	≥ 6.8 s.u.
	11 Miss. Admin. Code Pt. 2, R. 2.2.B(10)., as established in Construction Permit issued July 10, 2019	3.B.37	Chlorine	1.0 lb/hr and 4.38 tpy
		3.B.38	HCl	1.0 lb/hr and 4.38 tpy

Emission Point(s)	Applicable Requirement	Condition Number(s)	Pollutant/ Parameter	Limit/Standard
409	11 Miss. Admin. Code Pt. 2, R. 2.2.B(10)., as established in PSD Construction Permit issued November 14, 1995	3.B.51	PM/PM_{10} (filterable only)	1.9 lb/hr and 8.32 tpy
	11 Miss. Admin. Code Pt. 2, R. 1.4.B(1).	3.B.28	SO_2	500 ppmv
	11 Miss. Admin. Code Pt. 2, R. 2.2.B(10)., as established in PSD Construction Permit issued November 14, 1995	3.B.52	NO_x	2.79 lb/hr and 11.6 tpy
		3.B.53	CO	0.59 lb/hr and 2.45 tpy
	11 Miss. Admin. Code Pt. 2, R. 2.2.B(10)., as established in Operating Permit issued November 14, 1995	3.B.54	Fuel	Natural Gas Only
410 420 430 440	11 Miss. Admin. Code Pt. 2, R. 2.2.B(10)., as established in PSD Construction Permit issued November 14, 1995	3.B.35	PM/PM_{10} (filterable only)	0.5 lb/hr and 2.19 tpy
		3.B.55	NO_x	5.0 lb/hr and 21.9 tpy
		3.B.56	CO	5.0 lb/hr and 21.9 tpy
	11 Miss. Admin. Code Pt. 2, R. 2.2.B(10)., as established in PSD Construction Permit issued November 14, 1995	3.B.54	Fuel	Natural Gas Only
336 426 442 801	New Source Performance Standards (NSPS) for Calciners and Dryers in Mineral Industries, 40 CFR 60, Subpart UUU 40 CFR 60.730, Subpart UUU	3.B.57	PM/PM_{10}	Applicability
	40 CFR 60.732(a) and (b), Subpart UUU	3.B.58	PM/PM_{10}	0.025 gr/dscf
			Opacity	10 %
422	11 Miss. Admin. Code Pt. 2, R. 2.2.B(10)., as established in PSD Construction Permit issued September 22, 1992	3.B.59	PM/PM_{10} (filterable only)	1.0 lb/hr and 4.38 tpy
424 425	11 Miss. Admin. Code Pt. 2, R. 2.2.B(10)., as established in PSD Construction Permit issued November 14, 1995	3.B.60	PM/PM_{10} (filterable only)	2.0 lb/hr and 8.76 tpy

Emission Point(s)	Applicable Requirement	Condition Number(s)	Pollutant/ Parameter	Limit/Standard
426	11 Miss. Admin. Code Pt. 2, R. 2.2.B(10)., as established in PSD Construction Permit issued November 14, 1995	3.B.35	PM/PM_{10} (filterable only)	4.0 lb/hr and 17.52 tpy
		3.B.61	NO_x	12.0 lb/hr and 52.56 tpy
		3.B.62	CO	10.0 lb/hr and 43.8 tpy
433 436	11 Miss. Admin. Code Pt. 2, R. 2.2.B(10)., as established in PSD Construction Permit issued November 14, 1995	3.B.35	PM/PM_{10} (filterable only)	0.50 lb/hr and 2.19 tpy
436	11 Miss. Admin. Code Pt. 2, R. 2.2.B(10)., as established in PSD Construction Permit issued November 14, 1995	3.B.37	Chlorine	1.0 lb/hr and 4.38 tpy
		3.B.38	HCl	1.0 lb/hr and 4.38 tpy
		3.B.50	pH	≥ 6.8 s.u.
441	11 Miss. Admin. Code Pt. 2, R. 2.2.B(10)., as established in PSD Construction Permit issued November 14, 1995	3.B.35	PM/PM_{10} (filterable only)	0.50 lb/hr and 2.19 tpy
442	11 Miss. Admin. Code Pt. 2, R. 2.2.B(10)., as established in Construction Permit issued March 19, 2020	3.B.63	Operation	Operation of control devices required at all times unit is operated
		3.B.64	Fuel	Natural Gas Only
505	11 Miss. Admin. Code Pt. 2, R. 2.2.B(10)., as established in PSD Construction Permit issued November 14, 1995	3.B.50	pH	≥ 6.8 s.u.
506 512	NSPS for Industrial-Commercial-Institutional Steam Generating Units, 40 CFR 60, Subpart Db 40 CFR 60.40b(a), Subpart Db	3.B.65	SO_2 PM NOx	Applicability
506	11 Miss. Admin. Code Pt. 2, R. 2.2.B(10)., as established in PSD Construction Permit issued November 14, 1995	3.B.66	PM/PM_{10} (filterable only)	5.0 lb/hr and 21.9 tpy
		3.B.67	NO_x	0.1 lb/MMBTU not to exceed 18 lb/hr and 78.84 tpy
		3.B.68	CO	22 lb/hr and 96.36 tpy

Emission Point(s)	Applicable Requirement	Condition Number(s)	Pollutant/ Parameter	Limit/Standard
	11 Miss. Admin. Code Pt. 2, R. 2.2.B(10)., as established in Title V Operating Permit issued October 9, 2023	3.B.54	Fuel	Natural Gas Only
507	11 Miss. Admin. Code Pt. 2, R. 2.2.B(10)., as established in Construction Permit issued July 10, 2019	3.B.69	Operation	Only used as temporary replacement for permanent boiler. Potential emissions cannot exceed boiler being replaced.
		3.B.70	Days on site	≤ 180 days on site
507 512	11 Miss. Admin. Code Pt. 2, R. 2.2.B(10)., as established in Construction Permit issued July 10, 2019	3.B.71	Fuel	Natural gas only
506 507 512	11 Miss. Admin. Code Pt. 2, R. 1.3.D(1)(b).	3.B.72	PM (filterable only)	$E = 0.8808*I^{-0.1667}$
303 304 305 306 307 308 309 310 318 319 323 324 336 410 420 430 440 506 507 512 801 5070	11 Miss. Admin. Code Pt. 2, R. 1.4.A(1).	3.B.73	SO_2	4.8 lb/MMBtu
512	40 CFR 60.42b(k)(2), Subpart Db	3.B.74	SO_2	0.32 lb/MMBTU (limit to meet SO2 exemption in NSPS Db)
	40 CFR 60.44b(l)(1), Subpart Db	3.B.75	NOx	0.20 lb/MMBTU (30-day rolling average)
	11 Miss. Admin. Code Pt. 2, R. 2.2.B(10). (PSD Avoidance Limit)	3.B.76	NOx	0.054 lb/MMBTU (30-day rolling average using PEMS)
801	11 Miss. Admin. Code Pt. 2, R. 1.4.B(1).	3.B.28	SO_2	500 ppmv

Emission Point(s)	Applicable Requirement	Condition Number(s)	Pollutant/ Parameter	Limit/Standard
	11 Miss. Admin. Code Pt. 2, R. 2.2.B(10)., as established in Permit to Construct issued on April 11, 1989, and modified through the Permit to Operate issued on September 22, 1992	3.B.77	NO_x	5.0 lb/hr and 21.9 tpy
		3.B.78	CO	5.0 lb/hr and 21.9 tpy
		3.B.79	VOC	5.0 lb/hr and 21.9 tpy
		3.B.80	HCl	0.10 lb/hr and 0.44 tpy
		3.B.50	pH	≥ 6.8 s.u.
	40 CFR 60.732(a) and (b), Subpart UUU	3.B.58	PM/PM_{10}	0.025 gr/dscf
			Opacity	10 %
	11 Miss. Admin. Code Pt. 2, R. 2.2.B(10)., as established in Title V Permit issued October 9, 2023	3.B.54	Fuel	Natural Gas Only
802	11 Miss. Admin. Code Pt. 2, R. 2.2.B(10)., as established in Permit to Operate issued September 22, 1992, and modified on June 8, 1993	3.B.81	PM/PM_{10} (filterable only)	1.22 lb/hr and 5.32 tpy
207 208 209 506 512	40 CFR Part 64 – Compliance Assurance Monitoring (CAM) 40 CFR 64.2(a), CAM	3.B.82	HCl	CAM Applicability
205	11 Miss. Admin. Code Pt. 2, R. 2.2.B(10)., as established in PSD Construction Permit issued on September 22, 1992	3.B.83	PM/PM_{10} (filterable only)	0.1 lb/hr and 0.44 tpy

3.B.1 For Emission Points 100, 110, 120, 121, 122, 123, 125, 180, 303, 304, 305, 306, 307. 308, 309, 310, 318, 319, 323, 324, 336, 410, 420, 430, 440, 510, 511, 513, 514, 515, 5070, and 801, 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.2 For Emission Points 100, 110, 120, 121, 122, 123, 125, 180, 510, 511, 513, 514, and 515, the permittee is subject to and shall comply with all applicable requirements of the National Emission Standards for Hazardous Air Pollutants for Reciprocating Internal

Combustion Engines (40 CFR 63, Subpart ZZZZ) and the General Provisions (40 CFR 63, Subpart A).

For purposes of this subpart, Emission Points 510 and 511 are existing emergency stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions that does not operate or is not contractually obligated to be available for more than 15 hours per calendar year for the purposes specified in 40 CFR 40 CFR 63.4463.6640(f)(2)(ii) and (iii) and do not have to meet the requirements of 40 CFR 63 Subparts ZZZZ and A, except that they must meet the requirements of 40 CFR 63.6640(f) in order to be considered emergency stationary RICE under Subpart ZZZZ.

Emission Points 100, 110, 120, 121, 122, and 123 are considered existing, emergency, compression ignition (CI) stationary RICE at a major source of HAP emissions and shall comply with all applicable requirements of Subpart ZZZZ.

Emission Point 125 is considered a new, emergency SI stationary RICE with a site rating of less than 500 HP at a major source of HAP emissions. As such, the permittee shall comply with Subpart ZZZZ by complying with the applicable requirements of the Standards of Performance for Stationary Spark Ignition Internal Combustion Engines, 40 CFR 60, Subpart JJJJ.

Emission Points 513, 514, and 515 are considered new emergency stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions that does not operate or is not contractually obligated to be available for more than 15 hours per calendar year for the purposes specified in 40 CFR 63.6640(f)(2)(ii) and (iii). As such, the permittee does not have to meet the requirements of 40 CFR 60 Subparts ZZZZ and A except for the initial notification requirements of 40 CFR 63.6645(f), Subpart ZZZZ.

Emission Point 180 is considered a new, emergency CI stationary RICE with a site rating of less than 500 HP located at a major source of HAP emissions. As such, the permittee shall comply with Subpart ZZZZ by complying with the applicable requirements of the Standards of Performance for Stationary Compression Ignition Internal Combustion Engines, 40 CFR 60, Subpart IIII.

(Ref.: 40 CFR 63.6585(a) and (b), 63.6590(a)(1)(ii), (a)(2)(ii), (b)(1)(i), (b)(3)(iii), (c)(4), and (c)(7), Subpart ZZZZ)

3.B.3 For Emission Points 100, 110, 120, 121, 122, 123, and 180, at all times, each engine shall be in compliance with the applicable requirements of Subpart ZZZZ and the permittee shall operate and maintain the engines in a manner consistent with safety and good air pollution control practices for minimizing emissions. The general duty to minimize emissions does not require the permittee to make any further efforts to reduce emissions if levels required by Subpart ZZZZ have been achieved. Determination of whether such operation and maintenance procedures are being used will be based on information available to the MDEQ which may include, but is not limited to,

monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source.

(Ref.: 40 CFR 63.6605(a) and (b), Subpart ZZZZ)

3.B.4 For Emission Points 100, 110, 120, 121, 122, and 123, the permittee shall use diesel fuel that meets the following per gallon standards:

(a) Maximum sulfur content of ≤ 15 ppm, and

(b) Minimum cetane index of 40 or a maximum aromatic content of 35 volume percent

(Ref.: 40 CFR 63.6604(b), Subpart ZZZZ and 40 CFR 1090.305)

3.B.5 For Emission Points 100, 110, 120, 121, 122, 123, 510, 511, 513, 514, and 515, 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.6 For Emission Points 100, 110, 120, 121, 122, 123, 510, 511, 513, 514, and 515, the engines shall be considered emergency stationary RICE under Subpart ZZZZ provided the engines only operate in an emergency, during maintenance and testing, and during non-emergency situations for 50 hours per year as described in (c) below. If the permittee does not operate an engine according to the requirements in (a)-(c) below, the engine will not be considered an emergency engine under Subpart ZZZZ and must meet all requirements for non-emergency engines.

(a) There is no limit on the use of an engine during an emergency situation.

(b) The permittee may operate an engine for maintenance checks and readiness testing for a maximum of 100 hours per calendar year provided 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 insurance company associated with an engine. The permittee may petition the MDEQ for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating the federal, state, or local standards require maintenance testing of an engine beyond 100 hours per calendar year.

(c) Emergency engines 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

provided in paragraph (b).

(Ref.: 40 CFR 63.6640(f)(1)-(3), Subpart ZZZZ and 11 Miss. Admin. Code Pt. 2, R. 2.2.B(10).)

3.B.7 For Emission Point 125, the permittee is subject to and shall comply with all applicable requirements of the Standards of Performance for Stationary Spark Ignition Internal Combustion Engines (40 CFR 60, Subpart JJJJ) and the General Provisions (40 CFR 60, Subpart A).

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

3.B.8 For Emission Point 125, the permittee shall operate and maintain the engine such that it meets the following standards over the entire life of the engine:

(a) $NOx + HC \leq 10$ g/HP-hr

(b) $CO \leq 387$ g/HP-hr

(Ref.: 40 CFR 60.4233(d), 60.4234, and Table 1 of Subpart JJJJ)

3.B.9 For Emission Point 125, the permittee shall demonstrate compliance with the emission standards by purchasing a certified engine and operating and maintaining the certified engine according to the manufacturer's emission-related written instructions. The permittee may adjust engine settings provided the adjustments are consistent with the manufacturer's instructions.

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

3.B.10 For Emission Point 125, the engine shall be considered an emergency stationary engine under Subpart JJJJ provided the engine only operates in an emergency, during maintenance and testing, and during non-emergency situations for 50 hours per year as described in (c) below. If the permittee does not operate the engine according to the requirements in (a)-(c) below, the engine will not be considered an emergency engine under Subpart JJJJ and must meet all requirements for non-emergency engines.

(a) There is no limit on the use of the engine during an emergency situation.

(b) The permittee may operate the engine for maintenance checks and readiness testing for a maximum of 100 hours per calendar year provided 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 insurance company associated with an engine. The permittee may petition the MDEQ for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the

owner or operator maintains records indicating the federal, state, or local standards require maintenance testing of an engine beyond 100 hours per calendar year.

(c) The emergency engine may be operated for up to 50 hours per calendar year in non-emergency situations. The 50 hours of operation in non-emergency situations are counted as part of the 100 hours per calendar year for maintenance and testing provided in paragraph (b).

(Ref.: 40 CFR 60.4243(d)(1)-(3), Subpart JJJJ)

3.B.11 For Emission Point 125, the permittee shall install a non-resettable hour meter if one is not already installed.

(Ref.: 40 CFR 60.4237(c), Subpart JJJJ)

3.B.12 For Emission Points 180, 513, 514, and 515, the permittee is subject to and shall comply with all applicable requirements of the Standards of Performance for Stationary Compression Ignition Internal Combustion Engines (40 CFR 60, Subpart IIII) and the General Provisions (40 CFR 60, Subpart A).

(Ref.: 40 CFR 60.4200(a)(2)(i), Subpart IIII)

3.B.13 For Emission Point 180, the permittee shall operate and maintain each engine such that it achieves the following emission standards for the life of the engine:

(a) Non-methane hydrocarbon and nitrogen oxides (NMHC + NOx) ≤ 5.6 g/kW-hr

(b) CO ≤ 4.9 g/kW-hr

(c) PM (filterable only) ≤ 0.30 g/kW-hr

(Ref.: 40 CFR 60.4205(b), 60.4202(a)(1)(ii), and 60.4206, and Table 2 of Subpart IIII)

3.B.14 For Emission Points 513, 514, and 515, the permittee shall operate and maintain each engine such that it achieves the following emission standards for the life of the engine:

(a) Non-methane hydrocarbon and nitrogen oxides (NMHC + NOx) ≤ 6.4 g/kW-hr

(b) CO ≤ 3.5 g/kW-hr

(c) PM (filterable only) ≤ 0.20 g/kW-hr

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.2.B(10)., as established in Permit to Construct issued July 10, 2019, 40 CFR 60.4205(b), 60.4202(a)(2), and 60.4206, Subpart IIII and

40 CFR 1039 Appendix I (b))

3.B.15 For Emission Points 180, 513, 514, and 515, the permittee shall use diesel fuel that meets the following per gallon standards:

(a) Maximum sulfur content of ≤15 ppm, and

(b) Minimum cetane index of 40 or a maximum aromatic content of 35 volume percent

(Ref.: 40 CFR 60.4207(b), Subpart IIII and 40 CFR 1090.305)

3.B.16 For Emission Points 180, 513, 514, and 515, the permittee shall comply with the emission standards contained in 40 CFR 1039 by purchasing, installing, operating, and maintaining an engine certified to meet the emission standards. The permittee shall operate and maintain the engine in accordance with the manufacturer's emission-related written instructions and can only change the emission-related settings that are permitted by the manufacturer.

(Ref.: 40 CFR 60.4211(a)(1)-(3) and (c), Subpart IIII)

3.B.17 For Emission Points 180, 513, 514, and 515, the engine shall be considered an emergency stationary engine under Subpart IIII provided the engine only operates in an emergency, during maintenance and testing, and during non-emergency situations for 50 hours per year as described in (c) below. If the permittee does not operate the engine according to the requirements in (a)-(c) below, the engine will not be considered an emergency engine under Subpart IIII and must meet all requirements for non-emergency engines.

(a) There is no limit on the use of the engine during an emergency situation.

(b) The permittee may operate the engine for maintenance checks and readiness testing for a maximum of 100 hours per calendar year provided 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 insurance company associated with an engine. The permittee may petition the MDEQ for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating the federal, state, or local standards require maintenance testing of an engine beyond 100 hours per calendar year.

(c) The emergency engine may be operated for up to 50 hours per calendar year in non-emergency situations. The 50 hours of operation in non-emergency situations are counted as part of the 100 hours per calendar year for maintenance and testing

provided in paragraph (b).

(Ref.: 40 CFR 60.4211(f)(1)-(3), Subpart IIII)

3.B.18 For Emission Points 180, 513, 514, and 515, the permittee shall install a non-resettable hour meter prior to startup of the engine.

(Ref.: 40 CFR 60.4209(a), Subpart IIII)

3.B.19 For Emission Point 101, Particulate Matter (PM/PM_{10}) emissions shall not exceed 1.0 lb/hr and 4.38 tpy, as determined by EPA Reference Methods 1-5, 201, or 201A, 40 CFR 60, Appendix A.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.2.B(10)., as established in Permit to Construction issued June 28, 1994)

3.B.20 For Emission Points 102 and 321, Particulate Matter (PM/PM_{10}) emissions shall not exceed 1.0 lb/hr and 4.38 tpy (individual limits), as determined by EPA Reference Methods 1-5, 201, or 201A, 40 CFR 60, Appendix A.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.2.B(10)., as established in Permit to Operate issued September 22, 1992)

3.B.21 For Emission Point 104, the permittee shall not cause, permit, or allow the emission, in any one hour, particulate matter in total quantities in excess of 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.

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

3.B.22 For Emission Point 201, Particulate Matter (PM/PM_{10}) emissions shall not exceed 0.80 lb/hr and 3.5 tpy, as determined by EPA Reference Methods 1-5, 201, or 201A, 40 CFR 60, Appendix A.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.2.B(10)., as established in PSD Construction Permit issued November 14, 1995)

3.B.23 For Emission Point 201, Carbon Monoxide (CO) emissions shall not exceed 20.0 lb/hr and 87.60 tpy, as determined by EPA Reference Method 10, 40 CFR 60, Appendix A.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.2.B(10)., as established in PSD Construction

Permit issued November 14, 1995)

3.B.24 For Emission Point 201, Chlorine (Cl_2) emissions shall not exceed 1.0 lb/hr and 4.38 tpy.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.2.B(10)., as established in PSD Construction Permit issued November 14, 1995

3.B.25 For Emission Point 201, Hydrogen Chloride (HCl) emissions shall not exceed 1.0 lb/hr and 4.38 tpy.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.2.B(10)., as established in PSD Construction Permit issued November 14, 1995)

3.B.26 For Emission Point 202, process waste gases shall be scrubbed in the packed bed scrubber to remove Hydrogen Chloride and Chlorine (HCl and Cl_2) prior to discharge to the atmosphere.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.2.B(10)., as established in PSD Construction Permit issued November 14, 1995)

3.B.27 For Emission Point 202, the permittee shall not exceed 2,500 hours per year of operation.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.2.B(10)., as established in PSD Construction Permit issued November 14, 1995)

3.B.28 For Emission Points 207, 208, 209, 409, and 801, the permittee shall not cause or permit the emission of gas containing sulfur oxides (measured as sulfur dioxide) in excess of 500 ppm (volume) from any process equipment.

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

3.B.29 For Emission Points 207, 208, and 209, Particulate Matter (PM/PM_{10}) emissions shall not exceed 3.0 lb/hr and 13.14 tpy, as determined by EPA Reference Methods 1-5, 201, or 201A, 40 CFR 60, Appendix A.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.2.B(10)., as established in PSD Construction Permit issued December 19, 2003)

3.B.30 For Emission Points 207, 208, and 209, Sulfur Dioxide (SO_2) emissions shall not exceed 5.0 lb/hr and 21.90 tpy, as determined by EPA Test Method 6, 40 CFR 60, Appendix A.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.2.B(10)., as established in PSD Construction

Permit issued December 19, 2003)

3.B.31 For Emission Points 207, 208, and 209, Nitrogen Oxide (NOx) emissions shall not exceed 8.0 lb/hr and 35.04 tpy.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.2.B(10)., as established in Permit to Construct issued December 19, 2003)

3.B.32 For Emission Points 207, 208, and 209, Carbon Monoxide (CO) emissions shall not exceed 6.0 lb/hr for each emission point and a total of 26.28 tpy for all emissions points as determined by EPA Reference Method 10, 40 CFR 60, Appendix A..

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.2.B(10)., as established in PSD Construction Permit issued November 14, 1995, and Permit to Construct issued December 19, 2003)

3.B.33 For Emission Points 207, 208, and 209, Volatile Organic Compound (VOC) emissions shall not exceed 1 lb/hr and 4.38 tpy for each emission point.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.2.B(10)., as established in Permit to Construct issued December 19, 2003)

3.B.34 For Emission Points 207, 208, and 209, the permittee is subject to and shall comply with the New Source Performance Standards for Small Industrial-Commercial-Institutional Steam Generating Units (40 CFR, Subpart Dc) and the General Provisions (40 CFR 60, Subpart A)

(Ref.: 40 CFR 60.40c(a), Subpart Dc)

3.B.35 For Emission Points 210, 322, 406, 410, 420, 430, 433, 436, 440, 441 and, Particulate Matter (PM/PM_{10}) emissions shall not exceed 0.5 lb/hr and 2.19 tpy, as determined by EPA Reference Methods 1-5, 201, or 201A, 40 CFR 60, Appendix A.

For Emission Point 426, Particulate Matter (PM/PM_{10}) emissions shall not exceed 4.0 lb/hr and 17.52 tpy, as determined by EPA Reference Methods 1-5, 201, or 201A, 40 CFR 60, Appendix A.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.2.B(10)., as established in PSD Construction Permit issued November 14, 1995)

3.B.36 For Emission Point 210, Carbon Monoxide (CO) emissions shall not exceed 20.0 lb/hr and 87.6 tpy as determined by EPA Reference Method 10, 40 CFR 60, Appendix A.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.2.B(10)., as established in PSD Construction Permit issued November 14, 1995)

3.B.37 For Emission Points 210, 302, 321, 406, and 436, Chlorine (Cl_2) emissions shall not exceed 1.0 lb/hr and 4.38 tpy.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.2.B(10)., as established in PSD Construction Permit issued November 14, 1995)

3.B.38 For Emission Points 210, 302, 321, 406, and 436, Hydrogen Chloride (HCl) emissions shall not exceed 1.0 lb/hr and 4.38 tpy.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.2.B(10)., as established in PSD Construction Permit issued November 14, 1995)

3.B.39 For Emission Point 302, Particulate Matter (PM/PM_{10}) emissions shall not exceed 3.0 lb/hr and 13.14 tpy, as determined by EPA Reference Methods 1-5, 201, or 201A, 40 CFR 60, Appendix A.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.2.B(10)., as established in PSD Construction Permit issued November 14, 1995)

3.B.40 For Emission Points 303, 304, 305, 307, 308, 309, 318, 319, 323, and 324, Particulate Matter (PM/PM_{10}) emissions shall not exceed 0.2 lb/hr and 0.876 tpy, as determined by EPA Reference Methods 1-5, 201, or 201A, 40 CFR 60, Appendix A.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.2.B(10)., as established in PSD Construction Permit issued November 14, 1995)

3.B.41 For Emission Points 303, 304, 305, 307, 308, 309, 318, 319, 323, and 324, Nitrogen Oxide (NOx) emissions shall not exceed 3.0 lb/hr and 13.14 tpy, as determined by EPA Reference Method 7, 40 CFR 60, Appendix A.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.2.B(10)., as established in PSD Construction Permit issued November 14, 1995)

3.B.42 For Emission Points 303, 304, 305, 307, 308, 309, 318, 319, 323, and 324, Carbon Monoxide (CO) emissions shall not exceed 1.5 lb/hr and 6.57 tpy, as determined by EPA Reference Method 10, 40 CFR 60, Appendix A.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.2.B(10)., as established in PSD Construction Permit issued November 14, 1995)

For Emission Point 306, Carbon Monoxide (CO) emissions shall not exceed 0.11 lb/hr and 0.5 tpy, as determined by EPA Reference Method 10, 40 CFR 60, Appendix A.

For Emission Point 310, Carbon Monoxide (CO) emissions shall not exceed 0.19 lb/hr and 0.85 tpy, as determined by EPA Reference Method 10, 40 CFR 60, Appendix A.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.2.B(10)., as established in PSD Construction Permit issued December 19, 2003)

3.B.43 For Emission Points 303, 304, 305, 306, 307, 308, 309, 310, 318, 319, 323, and 324, Volatile Organic Compounds (VOC) emissions shall not exceed 0.50 lb/hr and 2.19 tpy, as determined by EPA Reference Method 25, 40 CFR 60, Appendix A.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.2.B(10)., as established in PSD Construction Permit issued November 14, 1995)

3.B.44 For Emission Points 303, 304, 305, 306, 307, 308, 309, 310, 318, 319, 323, and 324, Sulfur Dioxide (SO_2) emissions shall not exceed 0.10 lb/hr and 0.438 tpy, as determined by EPA Reference Method 25, 40 CFR 60, Appendix A.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.2.B(10)., as established in PSD Construction Permit issued November 14, 1995)

3.B.45 For Emission Points 303, 304, 305, 307, 308, 309, 318, 319, 323, and 324, the permittee shall combust natural gas only.

(Ref: 11 Miss. Admin. Code Pt. 2, R. 2.2.B(10)., as established in Title V Permit issued on March 2, 1999, and modified on September 12, 2002)

3.B.46 For Emission Points 303 through 310, 318, 319, 323, 324, 410, 420, 430, 440, 506, 507, 512 and 5070, the permittee is subject to and shall comply with all applicable requirements of the National Emission Standards for Hazardous Air Pollutants (NESHAP) 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).

For purposes of Subpart DDDDD, Emission Points 303, 304, 305, 319, 324 and 5070 are considered existing process heaters in the “designed to burn gas 1 fuels” subcategory with a heat input capacity of less than or equal to 5 million Btu per hour. Emission Points 306, 307, 308, 309, 310, 318, 323, 410, 420, 430, and 440 are considered existing process heaters in the “designed to burn gas 1 fuels” subcategory with heat input capacity of less than 10 but greater than 5 million Btu per hour heat input.

For purposes of Subpart DDDDD, Emission Point 507 meets the definition of a “temporary boiler” as defined in 40 CFR 63.7575, and is exempt from the requirements of Subparts DDDDD and A, provided the unit continues to meet the definition.

For purposes of Subpart DDDDD, Emission Point 512 is considered a new boiler with an oxygen trim system in the “designed to burn gas 1 fuels” subcategory with a heat input capacity of more than 10 million Btu per hour.

For purposes of Subpart DDDDD, Emission Point 506 is considered an existing boiler with an oxygen trim system in the "designed to burn gas 1 fuels" subcategory with a heat input capacity of more than 10 million Btu per hour.

(Ref.: 40 CFR 63.7480, 63.7485, 63.7491(j), 63.7490(a), (b) and (d), 63.7499(l), and 63.7500(e), Subpart DDDD)

3.B.47 For Emission Points 303, 304, 305, 306, 307, 308, 309, 310, 318, 319, 323, 324, 410, 420, 430, 440, 506, 512 and 5070, the permittee shall operate and maintain each unit in a manner consistent with safety and good air pollution control practices for minimizing emissions. The Subpart DDDDD work practice standards in Section 3.D of this permit apply at all times an affected unit is operating, except during periods of startup and shutdown.

(Ref.: 40 CFR 63.7500(a)(3) and (f), and 63.7505(a), Subpart DDDDD)

3.B.48 For Emission Point 404, Particulate Matter (PM/PM_{10}) emissions shall not exceed 1.0 lb/hr and 4.38 tpy, as determined by EPA Reference Methods 1-5, 201, or 201A, 40 CFR 60, Appendix A.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.2.B(10)., as established in Permit to Construct issued June 28, 1988, and modified through Permit to Operate on June 8, 1993)

3.B.49 For Emission Point 405, Particulate Matter (PM/PM_{10}) emissions shall not exceed 1.215 lb/hr and 5.32 tpy, as determined by EPA Reference Methods 1-5, 201, or 201A, 40 CFR 60, Appendix A.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.2.B(10)., as established in Permit to Operate issued September 22, 1992, and modified on June 8, 1993)

3.B.50 For Emission Points 406, 436, 505, and 801, the permittee shall maintain a scrubber pH equal to or greater than 6.8.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.2.B(10)., as established in PSD Construction Permit issued November 14, 1995)

3.B.51 For Emission Point 409, Particulate Matter (PM/PM_{10}) emissions shall not exceed 1.9 lb/hr and 8.32 tpy, as determined by EPA Reference Methods 1-5, 201, or 201A, 40 CFR 60, Appendix A.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.2.B(10)., as established in PSD Construction Permit issued November 14, 1995)

3.B.52 For Emission Point 409, Nitrogen Oxides (NOx) emissions shall not exceed 2.79 lb/hr and 11.60 tpy, as determined by EPA Reference Method 7, 40 CFR 60, Appendix A.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.2.B(10)., as established in PSD Construction Permit issued November 14, 1995)

3.B.53 For Emission Point 409, Carbon Monoxide (CO) emissions shall not exceed 0.59 lb/hr and 2.45 tpy, as determined by EPA Reference Method 10, 40 CFR 60, Appendix A.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.2.B(10)., as established in PSD Construction Permit issued November 14, 1995)

3.B.54 For Emission Points 409, 410, 420, 426, 430, 440, 506, and 801, the permittee shall combust natural gas only.

(Ref: 11 Miss. Admin. Code Pt. 2, R. 2.2.B(10)., as established in Title V Permit issued October 9, 2023)

3.B.55 For Emission Points 410, 420, 430, and 440, Nitrogen Oxide (NOx) emissions shall not exceed 5.0 lb/hr and 21.9 tpy, as determined by EPA Reference Method 7, 40 CFR 60, Appendix A.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.2.B(10)., as established in PSD Construction Permit issued November 14, 1995)

3.B.56 For Emission Points 410, 420, 430, and 440, Carbon Monoxide (CO) emissions shall not exceed 5.0 lb/hr and 21.9 tpy, as determined by EPA Reference Method 10, 40 CFR 60, Appendix A.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.2.B(10)., as established in PSD Construction Permit issued November 14, 1995)

3.B.57 For Emission Points 336, 426, 442 and 801, the permittee is subject to and shall comply with all applicable requirements of the New Source Performance Standards for Calciners and Dryers in Mineral Industries (40 CFR 60, Subpart UUU) and the General Provisions (40 CFR 60, Subpart A). Emission Point 801 utilizes wet scrubbing devices for particulate control

(Ref.: 40 CFR 60, Subpart UUU)

3.B.58 For Emission Points 336, 426, 442 and 801, the permittee shall not discharge into the atmosphere particulate matter in excess of 0.025 grains per dry standard cubic foot; and the permittee shall not exhibit greater than ten (10) percent opacity, unless the emissions are discharged from a wet scrubbing control device.

(Ref: 40 CFR 60.732(a) & (b), Subpart UUU)

3.B.59 For Emission Point 422, Particulate Matter (PM/PM_{10}) emissions shall not exceed 1.0

lb/hr and 4.38 tpy, as determined by EPA Reference Methods 1-5, 201, or 201A, 40 CFR 60, Appendix A.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.2.B(10)., as established in PSD Construction Permit issued November 14, 1995)

3.B.60 For Emission Points 424 and 425, Particulate Matter (PM/PM_{10}) emissions shall not exceed 2.0 lb/hr and 8.76 tpy, as determined by EPA Reference Methods 1-5, 201, or 201A, 40 CFR 60, Appendix A.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.2.B(10)., as established in PSD Construction Permit issued September 22, 1992)

3.B.61 For Emission Point 426, Nitrogen Oxide (NOx) emissions shall not exceed 12 lb/hr and 52.56 tpy, as determined by EPA Reference Method 7, 40 CFR 60, Appendix A.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.2.B(10)., as established in PSD Construction Permit issued November 14, 1995)

3.B.62 For Emission Point 426, Carbon Monoxide (CO) emissions shall not exceed 10.0 lb/hr and 43.8 tpy, as determined by EPA Reference Method 10, 40 CFR 60, Appendix A.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.2.B(10)., as established in PSD Construction Permit issued November 14, 1995)

3.B.63 For Emission Point 442, the spin flash dryer shall not be operated without the operation of the associated bag filter and guard filter.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.2.B(10)., as established in Construction Permit issued March 31, 2020)

3.B.64 For Emission Points 442, the permittee shall combust natural gas only.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.2.B(10)., as established in Construction Permit issued March 31, 2020)

3.B.65 For Emission Points 506 and 512, the permittee is subject to and shall comply with all applicable requirements of Standards of Performance for Industrial-Commercial-Institutional Steam Generation Units (40 CFR 60, Subpart Db) and the General Provisions (40 CFR 60, Subpart A)

(Ref: 40 CFR 60.40b, Subpart Db).

3.B.66 For Emission Point 506, Particulate Matter (PM/PM_{10}) emissions shall not exceed 5.0 lb/hr and 21.9 tpy, as determined by EPA Reference Methods 1-5, 201, or 201A, 40

CFR 60, Appendix A.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.2.B(10)., as established in PSD Construction Permit issued November 14, 1995)

3.B.67 For Emission Point 506, Nitrogen Oxide (NOx) emissions shall not exceed 0.1 lb/MMBtu, not to exceed 18 lb/hr and 78.84 tpy, as determined by EPA Reference Method 7, 40 CFR 60, Appendix A.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.2.B(10)., as established in PSD Construction Permit issued November 14, 1995)

3.B.68 For Emission Point 506, Carbon Monoxide (CO) emissions shall not exceed 22.0 lb/hr and 96.36 tpy, as determined by EPA Reference Method 10, 40 CFR 60, Appendix A,

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.2.B(10)., as established in PSD Construction Permit issued November 14, 1995)

3.B.69 For Emission Point 507, the permittee shall only operate the temporary boiler when one or more of the permanent boilers are shutdown, and potential emissions from the temporary boiler shall not exceed the potential emissions of the boiler being replaced.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.2.B(10)., as established in Construction Permit issued July 10, 2019)

3.B.70 For Emission Point 507, the permittee shall have the temporary boiler on-site for less than 180 consecutive days and, therefore, shall not be subject to 40 CFR 60, Subpart Db or 40 CFR 63, Subpart DDDDD.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.2.B(10)., as established in Construction Permit issued July 10, 2019)

3.B.71 For Emission Points 507 and 512, the permittee shall only combust natural gas.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.2.B(10)., as established in Construction Permit issued July 10, 2019)

3.B.72 For Emission Points 506, 507, and 512, the maximum permissible emission of ash and/or particulate matter from fossil fuel burning installations 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.73 For Emission Points 303 through 310, 318, 319, 323, 324, 410, 420, 430, 440, 506, 507, 512, 801, and 5070, the maximum discharge of sulfur oxides from any fuel burning installation in which the fuel is burned primarily to product 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(2).)

3.B.74 For Emission Point 512, the permittee shall only burn fuels with a potential Sulfur Dioxide (SO_2) emission rate of 0.32 lb/MMBTU heat input or less (Subpart Db SO_2 exemption).

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.2.B(10)., as established in Construction Permit issued July 10, 2019)

3.B.75 For Emission Point 512, the permittee shall not cause to be discharged into the atmosphere any gases that contain Nitrogen Oxide (NOx) (expressed as NO2) in excess of 0.20 lb/MMBTU, determined on a 30-day rolling average basis.

(Ref.: 40 CFR 60.44b(l)(1) and 60.44b(i), Subpart Db)

3.B.76 For Emission Point 512, the permittee shall not cause to be discharged into the atmosphere any gases that contain Nitrogen Oxide (NOx) (expressed as NO2) in excess of 0.054 lb/MMBTU (30-day rolling average), as determined by using a Predictive Emissions Monitoring System (PEMS).

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.2.B(10)., as established in Construction Permit issued July 10, 2019 (PSD Avoidance))

3.B.77 For Emission Point 801, Nitrogen Oxide (NOx) emissions shall not exceed 5.0 lb/hr and 21.90 tpy, as determined by EPA Reference Method 7, 40 CFR 60, Appendix A.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.2.B(10)., as established in Permit to Construct issued on April 11, 1989, and modified through the Permit to Operate issued on September 22, 1992)

3.B.78 For Emission Point 801, Carbon Monoxide (CO) emissions shall not exceed 5.0 lb/hr and 21.90 tpy, as determined by EPA Reference Method 10, 40 CFR 60, Appendix A.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.2.B(10)., as established in Permit to Construct issued on April 11, 1989, and modified through the Permit to Operate issued on September 22, 1992)

3.B.79 For Emission Point 801, Volatile Organic Compound (VOC) emissions shall not exceed 5.0 lb/hr and 21.90 tpy, as determined by EPA Reference Method 25, 40 CFR 60, Appendix A.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.2.B(10)., as established in Permit to Construct issued on April 11, 1989, and modified through the Permit to Operate issued on September 22, 1992)

3.B.80 For Emission Point 801, Hydrogen Chloride (HCl) emissions shall not exceed 0.10 lb/hr and 0.44 tpy.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.2.B(10)., as established in Permit to Construct issued April 11, 1989, and modified through Permit to Operate issued September 22, 1992)

3.B.81 For Emission Point 802, Particulate Matter (PM/PM_{10}) emissions shall not exceed 1.22 lb/hr and 5.32 tpy, as determined by EPA Reference Methods 1-5, 201, or 201A, 40 CFR 60, Appendix A.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.2.B(10)., as established in Permit to Operate issued September 22, 1992, and modified June 8, 1993)

3.B.82 For Emission Points 207, 208, 209, 506, and 512, the permittee is subject to and shall comply with all applicable requirements of 40 CFR Part 64 – Compliance Assurance Monitoring (CAM).

(Ref.: 40 CFR 64.2(a), Compliance Assurance Monitoring)

3.B.83 For Emission Point 205, Particulate Matter (PM/PM_{10}) emissions shall not exceed 0.1 lb/hr and 0.44 tpy, as determined by EPA Reference Methods 1-5, 201, or 201A, 40 CFR 60, Appendix A.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.2.B(10)., as established in PSD Construction Permit issued September 22, 1992)

C. Insignificant and Trivial Activity Emission Limitations & Standards

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

3.C.1 The maximum permissible emission of ash and/or particulate matter from fossil fuel burning installations of less than 10 million BTU per hour heat input shall not exceed 0.6 pounds per million BTU per hour heat input.

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

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

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

D. Work Practice Standards

Emission Point(s)	Applicable Requirement	Condition Number(s)	Pollutant/ Parameter	Limit/Standard
100 110 120 121 122 123	40 CFR 63.6602, 63.6625(i), and Item 1 and Footnotes 1 and 2 of Table 2c, Subpart ZZZZ	3.D.1	HAP	Scheduled maintenance requirements
	40 CFR 63.6625(e) and (h), 63.6640(a), and Table 6, Subpart ZZZZ	3.D.2		Operating requirements
303 304 305 319 324 506 512 5070	40 CFR 63.7515(d), 63.7540(a)(12), and (13), and 63.7540(a)(10)(i)-(vi), Subpart DDDDD	3.D.3 3.D.5	HAP	Conduct Tune-up every 5 years and tune-up requirements
306 307 308 309 310 318 323 410 420 430 440	40 CFR 63.7515(d), 63.7540(a)(11) and (13), and 63.7540(a)(10)(i)-(vi), Subpart DDDDD	3.D.4 3.D.5		Conduct Tune-up every 2 years and tune-up requirements

3.D.1 For Emission Points 100, 110, 120, 121, 122, and 123, 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, Subpart ZZZZ)

3.D.2 For Emission Points 100, 110, 120, 121, 122, and 123, 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.3 For Emission Points 303, 304, 305, 319, 324, 506, 512 and 5070, the permittee shall conduct a tune-up on each unit every five (5) years in accordance with Condition 3.D.5. Emission Points 506 and 512 shall be equipped with a continuous oxygen trim system that maintains an optimum air to fuel ratio. The oxygen level of the continuous oxygen trim system shall be set no lower than the oxygen concentration measured during the most recent tune-up. The first tune-up of Emission Point 512 shall be conducted within 61 months of initial startup. Each subsequent tune-up of each unit shall be completed no more than 61 months after the previous tune-up. The burner inspection of each unit may be delayed until the next scheduled or unscheduled shutdown, but the burner shall be inspected once every 72 months. If any unit is not operating on the required date for a tune-up, the permittee shall conduct the required tune-up within 30 calendar days of startup.

(Ref.: 40 CFR 63.7515(d) and 63.7540(a)(12) and (13), Subpart DDDDD)

3.D.4 For Emission Points 306 through 310, 318, 323, 410, 420, 430, and 440, the permittee shall conduct a tune-up on each unit biennially in accordance with Condition 3.D.5. Each subsequent tune-up shall be completed no more than 25 months after the previous tune-up. If any unit is not operating on the required date for a tune-up, the permittee shall conduct the required tune-up within 30 calendar days of startup.

(Ref.: 40 CFR 63.7515(d) and 63.7540(a)(11) and (13), Subpart DDDDD)

3.D.5 For Emission Points 303 through 310, 318, 319, 323, 324, 410, 420, 430, 440, and 512, 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 MDEQ, 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 MDEQ 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
Facility-wide	11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)(a)(3).	5.B.1	Control equipment	Regular maintenance as necessary and maintain a log of malfunctions and downtime.
	11 Miss. Admin. Code Pt. 2, R. 2.6.B(7).	5.B.2	Performance stack testing	Production rate operating requirements for performance testing.
101 102 201 210 302	11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)(a)(2).	5.B.3	PM/PM_{10} (filterable only)	Stack Testing in accordance with EPA Ref. Methods 1 – 5.

Emission Point(s)	Applicable Requirement	Condition Number	Pollutant/Parameter Monitored	Monitoring/Recordkeeping Requirement
321 404 405 406 409 422 424 425 426 433 436 441				
201 210 409 426 506 801	11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)(a)(2).	5.B.4	CO	Stack Testing in accordance with EPA Ref. Method 10.
Facility Wide	11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)(a)(2).	5.B.5	Fuel consumption	Monitor and record monthly the quantity of fuel used.
100 110 120 121 122 123 510 511	40 CFR 63.6655(a)(1), (2), and (5) and 63.6660, Subpart ZZZZ	5.B.6	HAPs	General recordkeeping.
	40 CFR 63.6655(f), Subpart ZZZZ	5.B.7	Hours of operation	Record hours of operation and purpose.
513 514 515	40 CFR 60.4214(b), Subpart IIII	5.B.8	Hours of operation	Record hours of operation and purpose
	11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)(a)(2).	5.B.9	Fuel	Records of fuel quality
125	40 CFR 60.4237(c) and 60.4245(b), Subpart JJJJ	5.B.10	Hours of operation	Record hours of operation and purpose
207 208 209	11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)(a)(2).	5.B.11	PM/PM10 (filterable only) SO2 NOx CO TRS	Stack testing
	40 CFR 60.48c(g), Subpart Dc	5.B.12	Fuel	Records of daily fuel consumption.
	11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)(a)(2).	5.B.13	pH	Continuously monitor and record scrubber liquid pH

Emission Point(s)	Applicable Requirement	Condition Number	Pollutant/Parameter Monitored	Monitoring/Recordkeeping Requirement
201 210 302 321 406 436	11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)(a)(2).	5.B.14	HCl Chlorine	Stack testing in accordance with EPA Ref. Method 26A
101 102 104 105 205 322 422 433 441 801 802	11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)(a)(2).	5.B.15	Pressure drop	Continuously monitor the pressure drop across each baghouse or emission control systems.
101 102 104 105 205 322 422 433 441 801 802	11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)(a)(2).	5.B.16	PM/PM_{10} (filterable only) Opacity	Conduct monthly visible emissions surveys of baghouse exhaust and maintain records of surveys and corrective actions.
406 436 505 801	11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)(a)(2).	5.B.17	pH	Continuously monitor and record caustic scrubbing solution pH.
406 409 426 436 801	11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)(a)(2).	5.B.18	NOx	Stack testing in accordance with EPA Ref. Method 7
409 801	11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)(a)(2).	5.B.19	SO_2	Stack testing in accordance with EPA Ref. Method 6
336 426 442 801	40 CFR 60.736(b)(1), Subpart UUU	5.B.20	PM/PM_{10} (filterable only)	Stack Testing in accordance with EPA Ref. Methods 1 – 5.
336 442	40 CFR 60.736(a), Subpart UUU	5.B.21	PM/PM_{10} (filterable only)	Initial stack test requirements.
336 426	40 CFR 60.734(b) and 60.736(b)(2), Subpart	5.B.22	Opacity	Daily method 9 visible emissions determinations

Emission Point(s)	Applicable Requirement	Condition Number	Pollutant/Parameter Monitored	Monitoring/Recordkeeping Requirement
442 801	UUU			
	40 CFR 60.735(a), Subpart UUU	5.B.23	Records	Records of opacity measurements shall be retained for at least 2 years.
506 512	40 CFR 60.49b(c), Subpart Db	5.B.24	NOx	Requirements for plan to monitor steam generating unit operating conditions to predict NOx emissions
	40 CFR 60.46b(e)(4), Subpart Db	5.B.25	NOx	Upon request, conduct a 30-day NOx performance test. During periods when a performance test is not requested, calculate NOx emissions daily as the rolling 30 day average of the preceding 30 days emissions using the predicted emissions
	40 CFR 60.49b.(g), Subpart Db	5.B.26	NOx	Specific recordkeeping requirements each operating day.
	40 CFR 60.49b(d), Subpart Db	5.B.27	Fuel	Records of monthly fuel consumption.
	40 CFR 60.49b(d), Subpart Db	5.B.28	Fuel	Records of natural gas quality
	40 CFR 60.49b(o), Subpart Db	5.B.29	Records	Records shall be maintained for 2 years after the date of each record.
303 304 305 306 307 308 309 310 318 319 323 324 410 420 430 440 506 512 5070	40 CFR 63.7555(a)(1) and (2), Subpart DDDDD	5.B.30	Records	Specific recordkeeping requirements.
	40 CFR 63.7560(a), (b), and (c), Subpart DDDDD	5.B.31	Records	General requirements for recordkeeping.
207 208 209	40 CFR 64.3(a) and (b), 64.6(c), Compliance Assurance Monitoring	5.B.32	Flow and pH	Continuously monitor scrubber media flow rate and pH per CAM plan.
506 512	40 CFR 64.3(a) and (b), 64.6(c), Compliance Assurance Monitoring	5.B.33	Flue gas recirculation rate	Continuously monitor the percent Flue Gas Recirculation in accordance with the CAM Plan.

Emission Point(s)	Applicable Requirement	Condition Number	Pollutant/Parameter Monitored	Monitoring/Recordkeeping Requirement
207 208 209 506	40 CFR 64.7(b) and (c), Compliance Assurance Monitoring	5.B.34	CAM	CAM plan monitoring requirements.
	40 CFR 64.7(d), Compliance Assurance Monitoring	5.B.35	CAM	Response requirements upon detecting an excursion or exceedance of CAM.
	40 CFR 64.8, Compliance Assurance Monitoring	5.B.36	CAM	Requirements for a Quality Improvement Plan under CAM.
	40 CFR 64.9(b), Compliance Assurance Monitoring	5.B.37	CAM	CAM recordkeeping requirements.
507	11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)(a)(2).	5.B.38	Records	Recordkeeping requirements for temporary replacement boiler
801	11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)(a)(2).	5.B.39	HCl	Stack Testing in accordance with EPA Ref. Method 26A

5.B.1 Regular maintenance shall be performed, as necessary, to maintain proper operation of pollution control equipment. The permittee shall maintain a log of control equipment malfunctions and downtime, including the date, time, duration, and cause of the malfunction or downtime and the corrective and/or preventive action(s) taken as a result of the malfunction or downtime. These records must be made available for review upon request by MDEQ personnel. 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)(a)(3).)

5.B.2 Unless otherwise specified in a specific permit condition, all performance (stack) testing required herein shall be performed when the stationary source is operating at capacity and is otherwise operating normally. In the event that a demonstration of compliance by testing is performed at less than capacity, the MDEQ may modify the permit to limit capacity of the stationary source to the rate at which compliance was demonstrated if the MDEQ determines the rate was not representative of the normal operation of the stationary source or compliance with applicable emission limit was not demonstrated. In the event that the stationary source is not operating or being operated normally during a

demonstration of compliance by testing, the results of such testing will not be accepted by the MDEQ as representative of normal operation and will be considered inadequate.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.6.B(7).)

5.B.3 For Emission Points 101, 102, 201, 210, 302, 321, 404, 405, 406, 409, 422, 424, 425, 426, 433, 436, and 441, the permittee shall perform stack testing, not to exceed 61 months from the previous stack test, in accordance with EPA Reference Methods 1 – 5, to demonstrate compliance with the permitted emission limitations for particulate matter (PM).

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

5.B.4 For Emission Points 201, 210, 409, 426, 436, 506, and 801, the permittee shall perform stack testing, not to exceed 61 months from the previous stack test, in accordance with EPA Reference Method 10, to demonstrate compliance with the permitted emission limitations for CO.

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

5.B.5 For the Entire Facility, the permittee shall monitor and maintain records on the quantity of fuels combusted on a monthly basis and 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.6 For Emission Points 100, 110, 120, 121, 122, and 123, the permittee shall keep the following records:

(a) A copy of each notification and report submitted to comply with Subpart ZZZZ.

(b) Records of the occurrence and duration of each malfunction of an engine or hour meter.

(c) Records of actions taken during periods of malfunction to minimize emissions, including corrective actions to restore a malfunctioning engine or hour meter to its normal manner of operation.

(d) Records of the maintenance conducted on each engine in order to demonstrate the engines were operated and maintained in accordance to the maintenance plan.

All records shall be in a form suitable and ready for expeditious review for a period of five (5) years after the date of each occurrence, measurement, maintenance, corrective action, report, or record. These records may be kept in an electronic or hard copy format.

(Ref.: 40 CFR 63.6655(a)(1), (2), and (5) and 63.6660, Subpart ZZZZ)

5.B.7 For Emission Points 100, 110, 120, 121, 122, 123, 510, and 511, the permittee shall monitor and record the hours of operation of the engine using the non-resettable hour meter. These records shall indicate how many hours are spent in emergency operation, including what classified the operation as an emergency, and how many hours are spent in non-emergency operation.

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

5.B.8 For Emission Points 513, 514, and 515, the permittee shall keep records of the operation of the engine in emergency and non-emergency service that are recorded through the non-resettable hour meter. The permittee shall record the time of operation of the engine and the reason the engine was in operation during that time.

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

5.B.9 For Emission Points 513, 514, and 515, the permittee shall maintain records documenting the diesel fuel meets the requirements of 40 CFR 1090.305 for nonroad diesel fuel.

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

5.B.10 For Emission Point 125, the permittee shall keep records of the operation of the engine that is recorded through the non-resettable hour meter. The permittee shall document how many hours are spent in emergency operation, included what classified the operation as an emergency, and how many hours are spent in non-emergency operation.

(Ref.: 40 CFR 60.4237(c) and 60.4245(b), Subpart JJJJ)

5.B.11 For Emission Points 207, 208, and 209, the permittee shall perform stack testing in accordance with the following methods, not to exceed 61 months from previous stack test to demonstrate compliance with the applicable emission limits in Section 3:

Particulate Matter -- EPA Reference Methods 1 – 5

Carbon Monoxide -- EPA Reference Method 10

NOx -- EPA Reference Method 7

TRS -- EPA Reference Method 16A (60-minute, in place of 2-hour test runs)

SO_2 -- EPA Reference Method 6

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

5.B.12 For Emission Points 207, 208, and 209, the permittee shall record and maintain records of the amounts of each fuel combusted during each day.

(Ref: 40 CFR 60.48c(g), Subpart Dc)

5.B.13 For Emission Points 207, 208, and 209, the permittee shall continuously monitor and record scrubber liquid pH.

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

5.B.14 For Emission Points 201, 210, 302, 321, 406, and 436, the permittee shall perform stack testing in accordance with EPA Reference Method 26A, not to exceed 61 months from previous stack test, to demonstrate compliance with the permitted emission limitations for HCl and Chlorine.

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

5.B.15 For Emission Points 101, 102, 104, 105, 205, 322, 433, 441, 801, and 802, the permittee shall continuously monitor the pressure drop across each baghouse emission control system. The permittee shall establish an acceptable target range for the pressure drop across each baghouse based on manufacturer's specifications and/or historical operating conditions for the baghouse. If any baghouse pressure drop reading is outside the target range, the permittee shall take prompt corrective action to return the pressure drop back to within the target monitoring range. The permittee shall maintain records in a log form documenting the target operating pressure drop range for each baghouse and each excursion of the baghouse pressure drop, including the date, time, corrective action(s) taken, and the length of time required to return the pressure drop to the target range. The operating log shall also document any downtime of the pressure drop monitoring equipment.

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

5.B.16 For Emission Points 101, 102, 104, 105, 205, 322, 422, 433, 441, 801, and 802, the permittee shall demonstrate compliance with the facility-wide opacity limit of 40% and proper functioning of the baghouse control device using the following procedures:

(a) On a monthly basis, determine if there are any visible emissions from each emission point by observing the emission point for a period of three (3) consecutive minutes using the procedures in Method 22. More than one emission point may be observed concurrently if they are in the line of sight of the observer.

(b) If visible emissions are observed, the permittee shall immediately undertake corrective action to eliminate the visible emissions. A follow up observation for

visual emissions shall be conducted after completion of corrective action for confirmation.

(c) The results of all monthly visible emissions observations shall be recorded in log form and shall include, at a minimum, the emission point, date and time (start/stop time), name of the observer, results of the 3-minute observation, and any corrective actions and results of any confirmation observations.

(d) Employees conducting visible emissions observations shall be trained in Method 22 observation procedures initially (prior to conducting observations) and annually thereafter. Method 22 training may be provided internally by an employee knowledgeable of Method 22. Records of training shall be maintained on-site and made available for review by MDEQ personnel.

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

5.B.17 The permittee shall continuously monitor and record the caustic scrubbing solution pH for the Emission Points 406, 436, 505, and 801.

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

5.B.18 For Emission Points 406, 409, 426, 436, and 801, the permittee is required to perform stack testing, in accordance with EPA Reference Method 7 to demonstrate compliance with the permittee emission limitations for Nitrogen Oxides (NOx) in Section 3. The permittee shall perform the stack testing once per permit term with subsequent tests no more than 61 months from the previous test to demonstrate compliance.

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

5.B.19 For Emission Points 409 and 801, the permittee is required to perform stack testing, in accordance with EPA Reference Method 6 to demonstrate compliance with the permittee emission limitations for Sulfur Dioxide (SO_2) in Section 3. The permittee shall perform the stack testing once per permit term with subsequent tests no more than 61 months from the previous test to demonstrate compliance.

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

5.B.20 For Emission Points 336, 426, 442, and 801, the permittee is required to perform stack testing, in accordance with EPA Reference Methods 1 – 5 to demonstrate compliance with the applicable emission limitations for Particulate Matter (PM) in Section 3 . The sampling time and volume for each run shall be at least two (2) hours and 1.70 dscm.

The permittee shall perform the stack testing once per permit term with subsequent tests no more than 61 months from the previous stack test to demonstrate compliance.

(Ref: 40 CFR 60.736(b)(1), Subpart UUU and 11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)(a)(2).)

5.B.21 For Emission Points 336 and 442, the permittee shall conduct an initial performance test within 180 days of startup in accordance with 40 CFR 60.8. Subsequent performance test shall be conducted in accordance with Condition 5.B.22. In addition when conducting the performance tests required in 40 CFR 60.8, the permittee shall use the test methods in 40 CFR 60, Appendix A except as provided in 40 CFR 60.8(b).

(Ref.: 40 CFR 60.736(a), Subpart UUU)

5.B.22 For Emission Points 336, 426, 442 and 801, the permittee shall have a certified visible emissions observer measure and record three six (6) minute averages of the opacity of visible emissions to the atmosphere each day of operation in accordance with EPA Reference Method 9 and using the procedures in 40 CFR 60.11.

(Ref: 40 CFR 60.734(b) and 60.736(b)(2), Subpart UUU)

5.B.23 For Emission Points 336, 426, 442 and 801, records of the measurements required in Conditions 5.B.22 and 5.B.24 shall be retained for at least 2 years.

(Ref: 40 CFR 60.735(a), Subpart UUU)

5.B.24 For Emission Point 506 and 512, to demonstrate compliance with the NOx standards of Permit Conditions 3.B.67 and 3.B.75, the permittee shall monitor steam generating unit operating conditions and predict nitrogen oxides emission rates as specified in the approved plan submitted in accordance with 40 CFR 60.49b(c). The plan shall:

(a) Identify the specific operating conditions to be monitored and the relationship between these operating conditions and the nitrogen oxides emission rates. Steam generating unit operating conditions include, but are not limited to, the degree of staged combustion and the level of excess air;

(b) Include the date and information that the permittee used to identify the relationship between nitrogen oxides emission rates and these operating conditions;

(c) Identify how these operating conditions, including steam generating unit load, will be monitored on a hourly basis by the permittee during the period of operation; the quality assurance procedures or practices that will be employed to ensure that the data generated by monitoring these operating conditions will be representative and accurate; and the type and format of the records of these operating conditions, including steam generating unit load, that will be maintained by the permittee.

(d) Develop a quality assurance plan that ensures continuous and reliable performance of the predictive emission monitoring system (PEMS) and its components. The plan should include daily, quarterly, and annual assessment procedures or operations to ensure adequate performance. As part of the plan, the permittee shall recommend a frequency for calibrating each sensor whose readout serves as an input to the mode (all sensors, at a minimum, shall be calibrated as often as recommended by the manufacturer). The plan should also include a detailed corrective action plan that can be executed at times when the PEMS is inoperative or the data produced is not valid.

(e) The permittee shall maintain records of predicted nitrogen oxides emission rates; the monitored operating conditions, including steam generating unit load; and quality assurance, identified in the plan above.

(Ref: 40 CFR 60.49b(c), Subpart Db)

5.B.25 For Emission Points 506 and 512, the permittee shall, upon request, determine compliance with the NOx standards in Permit Conditions 3.B.67, 3.B.75, and 3.B.76 through the use of a 30-day performance test. During periods when performance tests are not requested, NOx emissions data collected pursuant to Condition 5.B.26 shall be used to calculate a 30-day rolling average emission rate on a daily basis and used to prepare excess emission reports, but will not be used to determine compliance with the NOx emission standards. A new 30-day rolling average emission rate is calculated each steam generating unit operating day as the average of all of the hourly NOx emission data for the preceding 30 steam generating unit operating days.

(Ref. 40 CFR 60.46b(e)(4), Subpart Db)

5.B.26 For Emission Points 506 and 512, the permittee shall maintain records of the following information for each operating day, as applicable:

(a) Calendar date.

(b) The average hourly nitrogen oxides emission rates (expressed as NO_2) measured in lb/MMBTU.

(c) The thirty (30) day average nitrogen oxides emission rates (lb/MMBTU) calculated at the end of each operating day from the measured or predicted hourly nitrogen oxide emission rates for the preceding thirty (30) operating days.

(d) Identification of the operating days when the calculated thirty (30) day average nitrogen oxides emission rates are in excess of the NOx limits, with the reasons for such excess emissions as well as a description of corrective actions taken.

(e) Identification of the operating days for which pollutant data have not been obtained, including reasons for not obtaining sufficient data and a description of corrective actions taken.

(f) Identification of the times when emission data have been excluded from the calculation of average emission rates and the reasons for excluding data.

(g) Identification of "F" factor used for calculations, method of determination, and type of fuel combusted.

(h) Identification of the times when the pollutant concentration exceeded full span of the continuous monitoring system.

(i) Description of any modifications to the continuous monitoring system that could affect the ability of the system to comply with (2) or (3) above.

(j) Results of daily drift tests and quarterly accuracy assessments as required under 40 CFR 60, Appendix F, Procedure (1).

(Ref: 40 CFR 60.49b.(g), Subpart Db)

5.B.27 For Emission Points 506 and 512, the permittee shall record and maintain records of the amounts of fuel combusted during each calendar month.

(Ref: 40 CFR 60.49b(d), Subpart Db)

5.B.28 For Emission Points 506 and 512, the permittee shall obtain and maintain at the affected facility fuel receipts (such as a current, valid purchase contract, tariff sheet, or transportation contract) from the fuel supplier that certify that the gaseous fuel meets the definition of natural gas as defined in 40 CFR 60.41b and the applicable sulfur limit.

(Ref: 40 CFR 60.49b(r)(1), Subpart Db)

5.B.29 For Emission points 506 and 512, all records required under 40 CFR 60, Subpart Db shall be maintained for a period of 2 years following the date of such record.

(Ref: 40 CFR 60.49b(o), Subpart Db)

5.B.30 For Emission Points 303 through 310, 318, 319, 323, 324, 410, 420, 430, 440, 506, 512 and 5070, the permittee shall keep the following records:

(a) A copy of each notification and report that you submitted to comply with this subpart, including all documentation supporting any Initial Notification or Notification of Compliance Status or semiannual compliance report that you submitted, according to the requirements in 40 CFR 63.10(b)(2)(xiv).

(b) Records of performance tests, fuel analyses, or other compliance demonstrations and performance evaluations as required in 40 CFR 63.10(b)(2)(viii).

(Ref.: 40 CFR 63.7555(a)(1) and (2), Subpart DDDDD)

5.B.31 For Emission Points 303 through 310, 318, 319, 323, 324, 410, 420, 430, 440, 506, 512 and 5070, the permittee shall keep records in accordance with the following requirements:

(a) Your records shall be in a form suitable and readily available for expeditious review, according to 40 CFR 63.10(b)(1).

(b) As specified in 40 CFR 63.10(b)(1), the permittee shall keep each record for 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record.

(c) The permittee shall keep each record on site, or they must be accessible from on site (for example, through a computer network), for at least 2 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to 40 CFR 63.10(b)(1). The records can be kept off site for the remaining 3 years.

(Ref.: 40 CFR 63.7560(a), (b), and (c), Subpart DDDDD)

5.B.32 For Emission Point 207, 208, and 209, the permittee shall continuously monitor the scrubbing media flow rate and pH in accordance with the CAM Plan found in Appendix C of the permit.

(Ref.: 40 CFR 64.3(a) and (b), 64.6(c), Compliance Assurance Monitoring)

5.B.33 For Emission Point 506 and 512, the permittee shall continuously monitor the percent Flue Gas Recirculation in accordance with the CAM Plan found in Appendix C of the permit.

(Ref.: 40 CFR 64.3(a) and (b), 64.6(c), Compliance Assurance Monitoring)

5.B.34 For Emission Points 207, 208, 209, and 506, the permittee shall comply with the following requirements for the monitoring required by the approved CAM Plan:

(a) Proper maintenance. At all times, the permittee shall maintain the monitoring, including but not limited to, maintaining necessary parts for routine repairs of the monitoring equipment.

(b) Continued operation. Except for, as applicable, monitoring malfunctions, associated repairs, and required quality assurance or control activities (including,

as applicable, calibration checks and required zero and span adjustments), the permittee shall conduct all monitoring in continuous operation (or shall collect data at all required intervals) at all times that the pollutant-specific emissions unit is operating. Data recorded during monitoring malfunctions, associated repairs, and required quality assurance or control activities shall not be used, including in data averaging and calculations or in fulfilling a minimum data availability requirement, as applicable. The permittee shall use all the data collected during all other periods in assessing the operation of the control device and associated control system. A monitoring malfunction is any sudden, infrequent, not reasonably preventable failure of the monitoring to provide valid data. Monitoring failures that are caused in part by poor maintenance or careless operation are not malfunctions.

(Ref.: 40 CFR 64.7(b) and (c), Compliance Assurance Monitoring)

5.B.35 For Emission Points 207, 208, 209, and 506, upon detecting an excursion or exceedance, the permittee shall restore operation of the pollutant-specific emissions unit (including the control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions. The response shall include minimizing the period of any startup, shutdown or malfunction and taking any necessary corrective actions to restore normal operation and prevent the likely recurrence of the cause of an excursion or exceedance (other than those caused by excused startup or shutdown conditions). Such actions may include initial inspection and evaluation, recording that operations returned to normal without operator action (such as through response by a computerized distribution control system), or any necessary follow-up actions to return operation to within the indicator range, designated condition, or below the applicable emission limitation or standard, as applicable.

Determination of whether the permittee has used acceptable procedures in response to an excursion or exceedance will be based on information available, which may include but is not limited to, monitoring results, review of operation and maintenance procedures and records, and inspection of the control device, associated capture system, and the process.

(Ref.: 40 CFR 64.7(d), Compliance Assurance Monitoring)

5.B.36 For Emission Points 207, 208, 209, and 506, based on the results of a determination made under Condition 5.B.37, the MDEQ may require the permittee to develop and implement a Quality Improvement Plan (QIP) containing the elements specified in 40 CFR 64.8(b). The QIP shall be developed and implemented within 180 days of written notification from MDEQ that a QIP is required. The MDEQ may require the permittee make reasonable changes to the QIP if the QIP fails to address the cause of the control device performance problem or fails to provide adequate procedures for correcting control device performance problems as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions. Implementation of a QIP shall not excuse the permittee from compliance with any existing emission limitation or

standard, or any existing monitoring, testing, reporting or recordkeeping requirement that applies.

(Ref.: 40 CFR 64.8, Compliance Assurance Monitoring)

5.B.37 For Emission Points 207, 208, 209, and 506, the permittee shall maintain records of monitoring data, monitor performance data, corrective actions taken, any written QIP required pursuant to Condition 5.B.38 and any activities undertaken to implement a QIP, data used to document the adequacy of monitoring, and monitoring maintenance or corrective actions, as applicable. As applicable, records of monitoring data and monitoring performance data should include date and time, who performed the analysis, analytical techniques or methods used, results and operating conditions at the time of the sampling or measurement. These records may be maintained in hard copy form or electronically, provided they are available for expeditious inspection and review.

(Ref.: 40 CFR 64.9(b), Compliance Assurance Monitoring)

5.B.38 For Emission Point 507, the permittee shall maintain the following records of operation:

(a) Number of days onsite

(b) Heat input capacity and potential emissions of the temporary boiler

(c) Heat input capacity and potential emissions of the boiler being replaced by the temporary boiler

(d) Date brought onsite, and

(e) Date removed from site

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

5.B.39 For Emission Point 801, the permittee shall perform biennial stack testing in accordance with EPA Reference Method 26A, not to exceed 25 months from previous stack test, to demonstrate compliance with the permitted emission limitations for HCl and Chlorine.

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

C. Specific Reporting Requirements

Emission Point(s)	Applicable Requirement	Condition Number	Pollutant / Parameter Monitored	Reporting Requirement
Facility-wide	11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)(c).	5.C.1	Stack tests	Must submit test protocol 30 days prior to test, notify MDEQ of test date 10 days prior to test, and submit test results within 60 days of completion of test.
207 208 209 406 436 505 801	11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)(c)(1).	5.C.2	Scrubber liquid pH	Semiannual reports of excursions of scrubber operating parameters.
336 426 442 801	40 CFR 60.735(c)(1), Subpart UUU	5.C.3	Opacity	Semiannual reports of any opacity exceedances.
506 512	40 CFR 60.7(c), 40 CFR 60.49b(h), (h)(2) and (4), Subpart A	5.C.4	NOx	Semiannual excess emissions reports.
	40 CFR 60.49b(i), Subpart Db	5.C.5	NOx	Semiannual reports of the operating information recorded under Condition 5.B.25.
	40 CFR 60.49b(r)(1), Subpart Db	5.C.6	SO_2	Reports certifying combustion of natural gas only.
	40 CFR 60.49b(w), Subpart Db	5.C.7	Reporting period	The reporting period for the reports required under 40 CFR 60, Subpart Db is each 6-month period.
	40 CFR 60.49b(v), Subpart Db	5.C.8	NOx	Option to submit electronic quarterly reports for NOX in lieu of submitting the written reports required under Conditions 5.C.5 and 5.C.6.
303 304 305 319 324 506 512 5070	40 CFR 63.7550(a), 63.7550(b) and (c)(5)(i)-(iii), (xiv), and (xvii), and Table 9, Subpart DDDDD	5.C.9	HAPs	5-year compliance reports.
306 307 308 309 310 318	40 CFR 63.7550(a), 63.7550(b) and (c)(5)(i)-(iii), (xiv), and (xvii), and Table 9, Subpart DDDDD	5.C.10	HAPs	Biennial compliance reports.

Emission Point(s)	Applicable Requirement	Condition Number	Pollutant / Parameter Monitored	Reporting Requirement
323 410 420 430 440				
303 304 305 306 307 308 309 310 318 319 323 324 410 420 430 440 506 512 5070	40 CFR 63.7550(h)(3), Subpart DDDDD	5.C.11	HAPs	Report submittal instructions.
100 110 120 121 122 123	40 CFR 63.6605(d) and 63.6605(c)(1), (2), (3), and (4), Subpart ZZZZ	5.C.12	HAP	Reporting
100 110 120 121 122 123 125 510 511 513 514 515	11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)(c)(1).	5.C.13	Hours of operation	Annual hours operated in emergency use and non-emergency use.
507	11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)(c)(1).	5.C.14	Notification	Notification requirements when a temporary boiler is brought onsite.
	11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)(c)(1).	5.C.15	Notification	Notification requirements when a temporary boiler is removed from the site.
101 102 104 205 322	11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)(c)(1).	5.C.16	Pressure drop	Report excursions of control device pressure drop readings.

Emission Point(s)	Applicable Requirement	Condition Number	Pollutant / Parameter Monitored	Reporting Requirement
422 433 441	11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)(c)(1).	5.C.17	Visible emissions	Report results of visible emissions excursions and corrective actions.

5.C.1 For any performance testing required herein, the permittee shall submit the following notifications and/or reports:

(a) A written test protocol at least thirty (30) days prior to the intended test date(s) to ensure that all test methods and procedures are acceptable to the MDEQ. After the first successful submittal of a written test protocol in conjunction with a compliance test, the permittee may request that the resubmittal of the testing protocol be waived for subsequent testing by certifying in writing at least thirty (30) days prior to subsequent testing that all conditions for testing remain unchanged such that the original protocol can and will be followed.

(b) A notification of the scheduled test date(s) should be submitted ten (10) days prior to the scheduled test date(s) so that an observer may be afforded the opportunity to witness the test(s).

(c) The results from each performance test shall be submitted to the MDEQ within sixty (60) days following the completion of the test(s).

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

5.C.2 For Emission Points 207, 208, 209, 406, 436, 505, and 801, in accordance with Condition 5.A.4, the permittee shall submit a written report of any instances when the continuously monitored pH was less than 6.8 S.U. for the preceding 6 month period.

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

5.C.3 For Emission Points 336, 426, 442, and 801, in accordance with Condition 5.A.4, the permittee shall submit written reports of any opacity exceedances for the preceding six-month period. Opacity exceedances are defined as all six (6) minute periods during which the average opacity is greater than ten (10) percent.

(Re.: 40 CFR 60.735(c)(1), Subpart UUU)

5.C.4 For Emission Points 506, and 512, the permittee shall submit semiannual excess emissions reports for any excess emissions that occur during the semiannual reporting period. Excess emissions are defined as any calculated 30-day rolling average NOx emission rate, which exceeds the applicable emission limit. All reports shall be

postmarked by the 30th day following the end of each six-month period. Written reports of excess emissions shall include the following information:

(a) The magnitude of excess emissions computed in accordance with 40 CFR 60.13(h), any conversion factor(s) used, and the date and time of commencement and completion of each time period of excess emissions.

(b) The process operating time during the reporting period.

(c) Specific identification of each period of excess emissions that occurs during startups, shutdowns, and malfunctions of the affected facility. The nature and cause of any malfunctions (if known), the corrective action taken, or the preventive measures adopted.

(d) The date and time identifying each period during which the continuous monitoring system was inoperative except for zero and span checks, and the nature of the system repairs and adjustments.

(e) When no excess emissions have occurred or the continuous monitoring system(s) has not been inoperative, repaired, or adjusted, such information shall be stated in the report.

(Ref. 40 CFR 60.7(c), 40 CFR 60.49b(h), (h)(2) and (4), Subpart A)

5.C.5 For Emission Points 506 and 512, in accordance with Condition 5.A.4, the permittee shall submit semiannual reports of the operating information recorded under Condition 5.B.26.

(Ref.: 40 CFR 60.49b(i), Subpart Db)

5.C.6 For Emission Points 506 and 512, in accordance with Condition 5.A.4, the permittee shall submit reports in accordance with Condition 5.C.8 certifying that only natural gas was combusted during the reporting period.

(Ref.: 40 CFR 60.49b(r)(1), Subpart Db)

5.C.7 For Emission Points 506 and 512, the reporting period for the reports required under 40 CFR 60, Subpart Db is each 6 month period. All reports shall be submitted to the MDEQ and shall be postmarked by the 30th day following the end of the reporting period (i.e., July 30th and January 30th).

(Ref.: 40 CFR 60.49b(w), Subpart Db)

5.C.8 For Emission Points 506 and 512, the permittee may submit electronic quarterly reports for NOx in lieu of submitting the written reports required under Conditions 5.C.5 and 5.C.6. The format of each quarterly electronic report shall be coordinated with MDEQ. The electronic report(s) shall be submitted no later than 30 days after the end of the calendar quarter and shall be accompanied by a certification statement from the permittee, indicating whether compliance with the applicable emission standards and

minimum data requirements of this subpart was achieved during the reporting period. Before submitting reports in the electronic format, the permittee shall coordinate with the MDEQ to obtain their agreement to submit reports in this alternative format.

(Ref.: 40 CFR 60.49b(v), Subpart Db)

5.C.9 For Emission Points 303, 304, 305, 319, 324, 506, 512 and 5070, the permittee shall submit a 5-year compliance report postmarked or submitted by January 31st for the 5-year period that ended on December 31st of the previous year that contains the following information.

(a) Company and Facility name and address.

(b) Process unit information, emission limitations and operating parameter limitations.

(c) Date of report and beginning and ending dates of the reporting period.

(d) Date of the most recent tune-up and the date of the most recent burner inspection if it was not done with the tune-up and was delayed until the next scheduled or unscheduled unit shut down.

(e) Statement by a responsible official with the official's name, title, and signature, certifying the truth accuracy, and completeness of the content of the report.

(Ref.: 40 CFR 63.7550(a), 63.7550(b) and (c)(5)(i)-(iii), (xiv), and (xvii), and Table 9, Subpart DDDDD)

5.C.10 For Emission Points 306, 307, 308, 309, 310, 318, 323, 410, 420, 430, and 440, the permittee shall submit a biennial compliance report postmarked or submitted by January 31st for the 2-year period that ended on December 31st of the previous year. The report shall contain the information required by Condition 5.C.10(a) through (e).

(Ref.: 40 CFR 63.7550(a), 63.7550(b) and (c)(5)(i)-(iii), (xiv), and (xvii), and Table 9, Subpart DDDDD)

5.C.11 For Emission Points 303, 304, 305, 306, 307, 308, 309, 310, 318, 319, 323, 324, 410, 420, 430, 440, 506, 512 and 5070, permittee must submit the compliance reports required by Conditions 5.C.10 and 5.C.11 to MDEQ and EPA as outlined below.

(a) Written Reports shall be submitted to MDEQ at the following address:

Chief, Environmental Compliance and Enforcement Division
Mississippi Department of Environmental Quality
Office of Pollution Control
P.O. Box 2261
Jackson, Mississippi 39225

(b) Electronic reports shall be submitted using CEDRI that is accessed through EPA's Central Data Exchange (CDX) at www.epa.gov/cdx.

(Ref.: 40 CFR 63.7550(h)(3), Subpart DDDDD)

5.C.12 For Emission Points 100, 110, 120, 121, 122, and 123, the permittee shall submit a deviation report, in accordance with Condition 5.A.4, containing the following information:

(a) Company name and address.

(b) Statement by a responsible official, with that official's name, title, and signature, certifying the accuracy of the content of the report.

(c) Date of report and beginning and ending dates of the reporting period.

(d) The number, duration, and a brief description for each type of malfunction which occurred. The report must 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.3 (40 CFR 63.6605(b), Subpart ZZZZ), including actions taken to correct a malfunction.

(e) The total operating time of the stationary RICE at which the deviation occurred during the reporting period.

(f) Information on the number, duration, and cause of deviations (including unknown cause, if applicable), as applicable, and the corrective action taken.

(Ref.: 40 CFR 63.6650(d) and 63.6650(c)(1), (2), (3), and (4), Subpart ZZZZ)

5.C.13 For Emission Points 100, 110, 120, 121, 122, 123, 125, 510, 511, 513, 514, and 515, the permittee shall report the annual hours each engine operated in emergency use, including what constituted the emergency, and the annual hours operated in non-emergency use. These hours shall be submitted for each calendar year in accordance with Condition 5.A.4.

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

5.C.14 For Emission Point 507, within 30 days after a temporary boiler is brought on site, the permittee shall submit written notification of the date a rental boiler is brought on site, a description of the boiler, and the potential emissions rate from the boiler including

documentation demonstrating how potential emissions were derived. This notification shall also provide a description and potential emissions of the boiler(s) that is temporarily shutdown.

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

5.C.15 For Emission Point 507, within 30 days of removal of temporary boiler, the permittee shall submit written notification of the date the rental boiler is removed from site and will include the number of days the boiler remained onsite and the number of hours it operated while onsite.

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

5.C.16 For Emission Points 101, 102, 104, 205, 322, 422, 433, and 441, in accordance with Condition 5.A.4, the permittee shall submit reports of any pressure drop excursions and any corrective actions required by Condition 5.B.15.

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

5.C.17 For Emission Points 101, 102, 104, 205, 322, 422, 433, and 441, in accordance with Condition 5.A.4, the permittee shall submit reports of the monthly visible emissions excursions and any corrective actions required by Condition 5.B.16.

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

SECTION 6. ALTERNATIVE OPERATING SCENARIOS

6.1 None permitted.

SECTION 7. TITLE VI REQUIREMENTS

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

7.1 If the permittee produces, transforms, destroys, imports or exports a controlled substance or imports or exports a controlled product, the permittee shall comply with the applicable requirements of 40 CFR Part 82, Subpart A – Production and Consumption Controls.

7.2 If the permittee performs service on a motor vehicle for consideration when this service involves the refrigerant in the motor vehicle air conditioner (MVAC), the permittee shall comply with the applicable requirements of 40 CFR Part 82, Subpart B – Servicing of Motor Vehicle Air Conditioners.

7.3 The permittee shall comply with the applicable requirements of 40 CFR Part 82, Subpart E – The Labeling of Products Using Ozone-Depleting Substances, for the following containers and products:

(a) All containers in which a class I or class II substance is stored or transported;

(b) All products containing a class I substance; and

(c) All products directly manufactured with a process that uses a class I substance, unless otherwise exempted by this subpart or, unless EPA determines for a particular product that there are no substitute products or manufacturing processes for such product that do not rely on the use of a class I substance, that reduce overall risk to human health and the environment, and that are currently or potentially available. If the EPA makes such a determination for a particular product, then the requirements of this subpart are effective for such product no later than January 1, 2015.

7.4 If the permittee performs any of the following activities, the permittee shall comply with the applicable requirements of 40 CFR Part 82, Subpart F – Recycling and Emissions Reduction:

(a) Servicing, maintaining, or repairing appliances;

(b) Disposing of appliances, including small appliances and motor vehicle air conditioners; or

(c) Refrigerant reclaimers, technician certifying programs, appliance owners and operators, manufacturers of appliances, manufacturers of recycling and recovery equipment, approved recycling and recovery equipment testing organizations, 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

11 Miss. Admin. Code Pt. 2, Ch. 1.	Air Emission Regulations for the Prevention, Abatement, and Control of Air Contaminants
11 Miss. Admin. Code Pt. 2, Ch. 2.	Permit Regulations for the Construction and/or Operation of Air Emissions Equipment
11 Miss. Admin. Code Pt. 2, Ch. 3.	Regulations for the Prevention of Air Pollution Emergency Episodes
11 Miss. Admin. Code Pt. 2, Ch. 4.	Ambient Air Quality Standards
11 Miss. Admin. Code Pt. 2, Ch. 5.	Regulations for the Prevention of Significant Deterioration of Air Quality
11 Miss. Admin. Code Pt. 2, Ch. 6.	Air Emissions Operating Permit Regulations for the Purposes of Title V of the Federal Clean Air Act
11 Miss. Admin. Code Pt. 2, Ch. 7.	Acid Rain Program Permit Regulations for Purposes of Title IV of the Federal Clean Air Act
BACT	Best Available Control Technology
CEM	Continuous Emission Monitor
CEMS	Continuous Emission Monitoring System
CFR	Code of Federal Regulations
CO	Carbon Monoxide
COM	Continuous Opacity Monitor
COMS	Continuous Opacity Monitoring System
MDEQ	Mississippi Department of Environmental Quality
EPA	United States Environmental Protection Agency
gr/dscf	Grains Per Dry Standard Cubic Foot
HP	Horsepower
HAP	Hazardous Air Pollutant
lbs/hr	Pounds per Hour
M or K	Thousand
MACT	Maximum Achievable Control Technology
MM	Million
MMBTUH	Million British Thermal Units per Hour
NA	Not Applicable
NAAQS	National Ambient Air Quality Standards
NESHAP	National Emissions Standards for Hazardous Air Pollutants, 40 CFR 61 or National Emission Standards for Hazardous Air Pollutants for Source Categories, 40 CFR 63
NMVOC	Non-Methane Volatile Organic Compounds
NO_x	Nitrogen Oxides
NSPS	New Source Performance Standards, 40 CFR 60
O&M	Operation and Maintenance
PM	Particulate Matter
PM_{10}	Particulate Matter less than 10 μm in diameter
ppm	Parts per Million
PSD	Prevention of Significant Deterioration, 40 CFR 52
SIP	State Implementation Plan
SO_2	Sulfur Dioxide
TPY	Tons per Year
TRS	Total Reduced Sulfur
VEE	Visible Emissions Evaluation
VHAP	Volatile Hazardous Air Pollutant
VOC	Volatile Organic Compound

APPENDIX B

LIST OF REGULATIONS REFERENCED IN PERMIT

The full text of the regulations referenced in this permit may be found on-line at http://www.deq.state.us.us and http://ecfr.gpoaccess.gov, or the Mississippi Department of Environmental Quality (MDEQ) will provide a copy upon request. A list of regulations referenced in this permit is shown below:

11 Miss. Admin. Code Pt. 2, Ch. 1, Mississippi Air Emission Regulations for the Prevention, Abatement, and Control of Air Contaminants (Amended December 14, 2011)

11 Miss. Admin. Code Pt. 2, Ch. 6, Mississippi Air Emissions Operating Permit Regulations for the Purposes of Title V of the Federal Air Emissions Operating Permit Regulations for the Purpose of Title V of the Federal Clean Air Act (Amended December 14, 2011)

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

40 CFR 60, Subpart A – General Provisions

40 CFR 60, Subpart Db - Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units

40 CFR 60, Subpart Dc - Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units

40 CFR 60, Subpart IIII - Standards of Performance for Stationary Compression Ignition Internal Combustion Engines

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

40 CFR 60, Subpart UUU - Standards of Performance for Calciners and Dryers in Mineral Industries

40 CFR 63, Subpart A – General Provisions

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

40 CFR Part 63, Subpart DDDDD - National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters

APPENDIX C

Compliance Assurance Monitoring (CAM) Plan

Compliance Assurance Monitoring (CAM) Plan
Emission Points 207, 208, and 209 – Incinerator/Scrubber
Pollutant – SO_2
Limit – 5.0 lb/hr

	Indicator No. 1	**Indicator No. 2**
Indicator	pH of scrubbing media (NaOH)	Flow of scrubbing media (NaOH)
Measurement Approach	pH is measured using a pH meter	Flow is measured using a magnetic flowmeter
Monitoring Method and Location	Continuous measuring with alarm point	Continuous measuring with alarm point
Indictor Range (including the corrective action taken for an excursion)	The scrubbing media pH will be maintained at a measurement of equip to or greater than 6.5 s.u. Low Alarm Point = 7.0 s.u. If an alarm point is activated, the unit will be thoroughly evaluated and repairs made promptly.	The scrubbing media flow will be maintained at a rate of greater than 60 gallons per minute. Low Alarm Point = 100 gpm If an alarm point is activated, the unit will be thoroughly evaluated and repairs made promptly.
Monitoring Frequency	Continuous	Continuous
Data Collection/Recordkeeping Procedures	Spare parts maintained. Maintenance documented electronically. Data collected and archived electronically.	Spare parts maintained. Maintenance documented electronically. Data collected and archived electronically.
Averaging Period	None	None
QA/QC Practices	pH meter calibrated monthly	Flowmeter calibrated monthly

Compliance Assurance Monitoring (CAM) Plan
Emission Point 506 – 150,000 lb/hr Steam Boiler
Pollutant – NOx
Limit – 18.0 lb/hr (Natural Gas)

	Indicator No. 1	**Indicator No. 2**
Indicator	Flue Gas Flow, Outlet/Inlet Temperature	
Measurement Approach	Flue Gas will be measured using a Predictive Emissions Monitoring System (PEMS)	
Monitoring Method and Location	Continuous Measuring	
Indictor Range (including the corrective action taken for an excursion)	This is detailed in the PEMS Plan.	
Monitoring Frequency	Continuous	
Data Collection/Recordkeeping Procedures	Spare parts maintained. Maintenance documented electronically. Data collected and archived electronically.	
Averaging Period	None	
QA/QC Practices	PEMS undergoes an annual relative accuracy test.	