

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

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

**THIS CERTIFIES THAT**

Koch Farms of Mississippi LLC  
278 Herring Road  
Morton, Mississippi  
Scott County

has been granted permission to operate air emissions equipment in accordance with emission limitations, monitoring requirements and conditions set forth herein. This permit is issued in accordance with the Federal Clean Air Act and the provisions of the Mississippi Air and Water Pollution Control Law (Section 49-17-1 et. seq., Mississippi Code of 1972), the regulations and standards adopted and promulgated thereunder, and the State Implementation Plan for operating permits for synthetic minor sources.

**MISSISSIPPI ENVIRONMENTAL QUALITY PERMIT BOARD**

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**AUTHORIZED SIGNATURE  
MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY**

**Issued:** \_\_\_\_\_

**Permit No.: 2420-00051**

**Effective Date: As specified herein.**

**Expires: [No more than 5 years from the issue date.]**

## SECTION 1.

### A. GENERAL CONDITIONS

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

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

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

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

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

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

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

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

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

- (1) The source was capable of accommodating before January 6, 1975, unless such change would be prohibited under any federally enforceable permit condition which was established after January 6, 1975, pursuant to 40 CFR 52.21 or under regulations approved pursuant to 40 CFR Part 51, Subpart I, or 40 CFR 51.166; or
  - (2) The source is approved to use under any permit issued under 40 CFR 52.21 or under regulations approved pursuant to 40 CFR Part 51, Subpart I, or 40 CFR 51.166;
- e. An increase in the hours of operation or in the production rate unless such change would be prohibited under any federally enforceable permit condition which was established after January 6, 1975, pursuant to 40 CFR 52.21 or under regulations approved pursuant to 40 CFR Part 51, Subpart I or 40 CFR 51.166; or
- f. Any change in ownership of the stationary source.

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

## **B. GENERAL OPERATIONAL CONDITIONS**

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

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

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

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

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

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

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

- a. Upsets

- (1) For an upset defined in 11 Miss. Admin. Code Pt. 2, R. 1.2., the Commission may pursue an enforcement action for noncompliance with an emission standard or other requirement of an applicable rule, regulation, or permit. In determining whether to pursue enforcement action, and/or the appropriate enforcement action to take, the Commission may consider whether the source has demonstrated through properly signed contemporaneous operating logs or other relevant evidence the following:
  - (i) An upset occurred and that the source can identify the cause(s) of the upset;
  - (ii) The source was at the time being properly operated;
  - (iii) During the upset the source took all reasonable steps to minimize levels of emissions that exceeded the emission standard or other requirement of an applicable rule, regulation, or permit;
  - (iv) That within 5 working days of the time the upset began, the source submitted a written report to the Department describing the upset, the steps taken to mitigate excess emissions or any other noncompliance, and the corrective actions taken and;
  - (v) That as soon as practicable but no later than 24 hours of becoming aware of an upset that caused an immediate adverse impact to human health or the environment beyond the source boundary or caused a general nuisance to the public, the source provided notification to the Department.
- (2) In any enforcement proceeding by the Commission, the source seeking to establish the occurrence of an upset has the burden of proof.
- (3) This provision is in addition to any upset provision contained in any applicable requirement.
- (4) These upset provisions apply only to enforcement actions by the Commission and are not intended to prohibit EPA or third party enforcement actions.

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

- (1) Startups and shutdowns are part of normal source operation. Emission limitations apply during startups and shutdowns unless source specific emission limitations or work practice standards for startups and shutdowns are defined by an applicable rule, regulation, or permit.
- (2) Where the source is unable to comply with existing emission limitations

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

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

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

5. Compliance Testing: Regarding compliance testing:

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

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

**C. PERMIT RENEWAL / MODIFICATION / TRANSFER / TERMINATION**

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

source's ability to operate unless a timely and complete renewal application has been submitted.

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

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

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

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

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

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

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

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

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



## SECTION 2. EMISSION POINT DESCRIPTION

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

Emission Point	Facility Reference	Description
AA-001	FB-001	20.9 MMBtu/hr Boiler Natural gas and/or No. 2 Fuel Oil-fired
AA-002	FB-002	20.9 MMBtu/hr Boiler Natural gas and/or No. 2 Fuel Oil-fired
AB-001	AA-107	Truck Receiving controlled by Baghouse
AB-002	AA-140	Rail Receiving No. 1 controlled by Baghouse
AB-003	AA-144	Rail Receiving No. 2 controlled by Baghouse
AC-001	AA-126	Grain Storage Silo Vent controlled by Baghouse
AC-002	AA-127	Soy Meal Storage Silo Vent controlled by Baghouse
AC-003	AA-131	Meal Ingredient Transfer Vent controlled by Baghouse
AC-004	AA-209	Soy Meal Transfer Vent controlled by Baghouse
AC-005	AA-327	Hammer Mill No. 1 controlled by Baghouse
AC-006	AA-328	Hammer Mill No. 2 controlled by Baghouse
AC-007	AA-329	Hammer Mill No. 3 controlled by Baghouse
AC-008	AA-339	Ground Grain Transfer Vent controlled by Baghouse
AC-009	AA-599A	Pellet Crumbles Transfer Vent No. 1 controlled by Baghouse
AC-010	AA-599B	Pellet Crumbles Transfer Vent No. 2 controlled by Baghouse
AD-001	AA-458	Meal Cleaner Vent controlled by Baghouse
AE-001	AA-519	Pellet Mill No. 1 controlled by Cyclone
AE-002	AA-551	Pellet Mill No. 2 controlled by Cyclone
AE-003	AA-584	Pellet Mill No. 3 controlled by Cyclone
AF-001	----	Phosphate Receiving controlled by Baghouse
AF-002	----	Limestone Receiving controlled by Baghouse



Emission Point	Facility Reference	Description
AF-003	----	Salt Receiving controlled by Baghouse
AF-004	----	Finished Feed Loadout A
AF-005	----	Finished Feed Loadout B
AF-006	----	Methionine Receiving controlled by Baghouse
AF-007	----	Lysine Receiving controlled by Baghouse
AG-001	AA-101	10,000 gallon Off-Road Diesel Storage Tank
AG-002	AA-102	20,000 gallon Over the Road Diesel Storage Tank Maximum True Vapor Pressure less than 15 kPa (2.17psia)

### SECTION 3. EMISSION LIMITATIONS AND STANDARDS

Emission Point	Applicable Requirement	Condition Number(s)	Pollutant/Parameter	Limitation/Standard
Facility-Wide	11 Miss. Admin. Code Pt. 2, R. 1.3.A.	3.1	Smoke	Opacity shall not exceed 40%
	11 Miss. Admin. Code Pt. 2, R. 1.3.B.	3.2		
	11 Miss. Admin. Code Pt. 2, R. 1.3.C.	3.3	Dust Fumes Gases	Good Air Pollution Control Practices
	11 Miss. Admin. Code Pt. 2, R. 1.3. F(1).	3.4	PM (Filterable only)	Emissions shall not exceed $E = 4.1 p^{0.67}$
	11 Miss. Admin. Code Pt. 2, R. 2.2. B(10). Prevention of Significant Deterioration (PSD) and Title V Operating Permit (TVOP) Avoidance Limitation	3.5	Production	Total Feed Mill Production shall not exceed 1,470,000 tons per year.
	11 Miss. Admin. Code Pt. 2, R. 2.2. B(10). TVOP Avoidance Limitation	3.6	PM <sub>10</sub> PM <sub>2.5</sub>	Emissions shall not exceed 95.0 tpy.
	40 CFR 63, Subpart DDDDDDD (National Emission Standards for Hazardous Air Pollutants for Area Sources: Prepared Feeds Manufacturing) 40 CFR 63.11619(a), 63.11619(b)(1), Subpart DDDDDDD	3.7	HAP	General Applicability
AA-001 AA-002	11 Miss. Admin. Code Pt. 2, R. 1.4. A(1).	3.8	SO <sub>2</sub>	Emissions shall not exceed 4.8 lbs/MMBtu
	11 Miss. Admin. Code Pt. 2, R. 1.3. D(1)(b).	3.9	PM (Filterable only)	$E = 0.8808 * I^{-0.1667}$
	11 Miss. Admin. Code Pt. 2, R. 2.2. B(10).	3.10	Fuel Usage	Shall only combust natural gas and/or distillate fuel oil.
	40 CFR 60, Subpart Dc (Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units) 40 CFR 60.40c(a), Subpart Dc	3.11	SO <sub>2</sub>	General Applicability
	40 CFR 60.42c(d), (h)(1), 60.42c(i), and 60.44c(h), Subpart Dc	3.12	Fuel Usage	Shall not combust fuel oil containing greater than 0.5% sulfur by weight.

Emission Point	Applicable Requirement	Condition Number(s)	Pollutant/Parameter	Limitation/Standard
AA-001 AA-002	40 CFR 63, Subpart JJJJJJ (National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers Area Source) 40 CFR 63.11195(e), 63.11210(h), and 63.11237, Subpart JJJJJJ	3.13	HAP	General Applicability
AB-001 AB-002 AB-003 AC-001 AC-002 AC-003 AC-004 AC-005 AC-006 AC-007 AC-008 AC-009 AC-010 AD-001 AE-001 AE-002 AE-003 AF-001 AF-002 AF-003 AF-006 AF-007	11 Miss. Admin. Code Pt. 2, R. 2.2. B(10). PSD and TVOP Avoidance Limitation	3.14	PM PM <sub>10</sub> PM <sub>2.5</sub>	Route all emissions to a control device. Operate each control device at all times while processing.
AB-001 AB-002 AB-003 AF-004 AF-005	40 CFR 63.11621(d), Subpart DDDDDDD	3.15	HAP	Minimize Fugitive Emissions
AE-001 AE-002 AE-003	40 CFR 63.11621(f), Subpart DDDDDDD	3.16	HAP	Route All Emissions to a Cyclone.

3.1 For the entire facility, 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 40 percent opacity subject to the exceptions provided in (a) and (b).

(a) Startup operations may produce emissions which exceed 40 percent opacity for up to 15 minutes per startup in any one hour and not to exceed three startups per stack in any 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-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.)

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

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

3.3 For the entire facility, the permittee shall not cause, 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.

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.

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.)

- 3.4 For the entire facility, the permittee shall not cause, permit, or allow the emission of particulate matter in total quantities in any one hour from any manufacturing process, which includes any associated stacks, vents, outlets, or combination thereof, to exceed the amount determined by the relationship

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

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

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

- 3.5 For the entire facility, the permittee shall limit Total Feed Mill Production to no more than 1,470,000 tons per year (tpy) as determined on a monthly basis and for each consecutive 12-month period on a rolling basis. The permittee shall calculate Total Feed Mill Production using, but not limited to, purchase orders of feed received, feed delivery receipts, the manufacturer's specifications, and hours of operation.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.2.B(10). [PSD and TVOP Avoidance Limit])

- 3.6 For the entire facility, the permittee shall limit Particulate Matter (PM) less than 10 microns (PM<sub>10</sub>) and PM less than 2.5 microns (PM<sub>2.5</sub>) to 95.0 tons per year (tpy), as determined on a monthly basis and for each consecutive 12-month period on a rolling basis. Emissions shall be calculated using, but not limited to, control device data, grain throughput, hours of operation, manufacturer's specifications, stack testing, and EPA AP-42.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.2.B(10). [TVOP Avoidance Limit])

3.7 For the entire facility, the permittee is subject to and shall comply with all applicable requirements of the National Emission Standards for Hazardous Air Pollutants for Area Sources: Prepared Feeds Manufacturing (40 CFR 63, Subpart DDDDDDD) and General Provisions (40 CFR 63, Subpart A).

(Ref.: 40 CFR 63.11619(a), 63.11619(b)(1), Subpart DDDDDDD)

3.8 For Emission Points AA-001 and AA-002, the maximum discharge of sulfur from any fuel burning installation in which the fuel is burned primarily to produce heat or power by indirect heat transfer shall not exceed 4.8 pounds (measured as sulfur dioxide) per million BTU heat input.

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

3.9 For Emission Points AA-001 and AA-002, the maximum permissible emission of ash and/or particulate matter from fossil fuel burning installations of equal to or greater than 10 million BTU per hour per heat input shall not exceed an emission rate as determined by the relationship

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

where E is the emission rate in pounds per million BTU per hour heat input and I is the heat input in millions of BTU per hour.

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

3.10 For Emission Points AA-001 and AA-002, the permittee shall only combust natural gas and/or distillate fuel oil. The permittee shall calculate fuel combustion using, but not limited to, purchase orders of fuel, fuel delivery receipts, the manufacturer's specifications, and hours of operation.

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

3.11 For Emission Points AA-001 and AA-002, the permittee is subject to and shall comply with all applicable requirements of the Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units (40 CFR 60, Subpart Dc) and General Provisions (40 CFR 60, Subpart A).

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

- 3.12 For Emission Points AA-001 and AA-002, the permittee shall not combust fuel oil containing greater than 0.5% sulfur by weight to be determined by the certification from the fuel supplier as described in Condition 5.5 (40 CFR 60.48c(f)(1) and (4), Subpart Dc). The fuel oil sulfur limits apply at all times, including periods of startup, shutdown, and malfunction.

(Ref.: 40 CFR 60.42c(d), (h)(1), 60.42c(i), and 60.44c(h), Subpart Dc)

- 3.13 For Emission Points AA-001 and AA-002, the permittee is subject to and shall comply with all applicable requirements of the National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers Area Source (40 CFR 63, Subpart JJJJJJ) and General Provisions (40 CFR 63, Subpart A). Emission Points AA-001 and AA-002 are permitted to burn natural gas and distillate fuel oil; however, for purposes of determining applicability to 40 CFR 63, Subpart JJJJJJ, the boilers are considered gas-fired boilers as defined by below. Per 40 CFR 63.11195(e), Subpart JJJJJJ gas-fired boilers are not subject to the requirements of 40 CFR 63, Subpart JJJJJJ.

A *gas-fired boiler* includes any boiler that burns gaseous fuels not combined with any solid fuels and burns liquid fuel only during periods of gas curtailment, gas supply interruption, startups, or periodic testing on liquid fuel. Periodic testing of liquid fuel shall not exceed a combined total of 48 hours during any calendar year. If the permittee switches fuels, such that the boiler(s) would no longer be considered a gas-fired boiler under 40 CFR 63, Subpart JJJJJJ, the permittee shall determine which subcategory applies to the boiler and must demonstrate compliance with all applicable requirements of 40 CFR 63, Subpart JJJJJJ, within 180 days of the effective date of the fuel switch.

(Ref.: 40 CFR 63.11195(e), 63.11210(h) and 63.11237, Subpart JJJJJJ)

- 3.14 For Emission Points AB-001, AB-002, AB-003, AC-001, AC-002, AC-003, AC-004, AC-005, AC-006, AC-007, AC-008, AC-009, AC-010, AD-001, AE-001, AE-002, AE-003, AF-001, AF-002, AF-003, AF-006, and AF-007, the permittee shall route all emissions to the respective control device. The permittee shall operate each control



device at all times when processing. Should the control technologies become nonoperational then the respective process shall be shut down immediately, but not as to cause damage to equipment or property, or cause further environmental problems. The process shall not startup until such time that the control technology becomes operational. The permittee shall maintain on hand at all times sufficient equipment as is necessary to repair and/or overhaul each control device at all times. The permittee shall maintain and perform quality assurance/quality control measures in accordance with the manufacture's specifications.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.2.B(10). [PSD and TVOP Avoidance Limit])

3.15 For Emission Points AB-001, AB-002, AB-003, AF-004, and AF-005, where materials containing chromium or manganese are loaded into trucks or railcars, the permittee must lessen fugitive emissions by reducing the distance between the loadout spout and the vehicle being loaded by either paragraph (a) or (b) of this condition.

- (a) Use a device of any kind at the bulk loadout spout that minimizes the distance to the vehicle being loaded.
- (b) Use any other means to minimize the distance between the loadout spout and the vehicle being loaded.

(Ref.: 40 CFR 63.11621(d), Subpart DDDDDDD)

3.16 For Emission Points AE-001, AE-002, and AE-003, the permittee shall capture emissions and route them to a cyclone. The cyclone shall be maintained in accordance with good air pollution control practices and manufacturer's specifications and operating instructions, if available. If manufacturer's specifications and operating instructions are not available, the permittee shall develop and follow standard operating procedures that ensure proper operation and maintenance of the cyclone.

(Ref.: 40 CFR 63.11621(f), Subpart DDDDDDD)

## SECTION 4. WORK PRACTICES

Emission Point	Applicable Requirement	Condition Number(s)	Pollutant/Parameter	Work Practice
Facility-Wide	40 CFR 63.11621(a), Subpart DDDDDDD	4.1	HAP	Dust Minimization Practices.
	40 CFR 63.11621(b), Subpart DDDDDDD	4.2		Store Chromium or Manganese in Closed Containers.
	40 CFR 63.11621(c), Subpart DDDDDDD	4.3		Minimize Emissions During Mixing.

4.1 For the entire facility, in all areas of the affected source where materials contain chromium or manganese are stored, used, or handled, the permittee must at all times operate all process equipment in accordance with manufacturer’s specifications and in a manner to minimize dust creation and perform housekeeping measures to minimize excess dust. These measures must include, but are not limited to:

- (a) Use either an industrial vacuum system or manual sweeping to reduce the amount of dust,
- (b) At least once per month, remove dust from walls, ledges, and equipment using low pressure air or by other means, and then sweep or vacuum the area, and;
- (c) Keep exterior doors in the immediate affected areas shut except during normal ingress and egress, as practicable. This paragraph does not apply to areas where finished product is stored in closed containers, and no other containing chromium or manganese are present.

(Ref.: 40 CFR 63.11621(a), Subpart DDDDDDD)

4.2 For the entire facility, the permittee shall, at all times, store any raw materials containing chromium or manganese in closed containers.

(Ref.: 40 CFR 63.11621(b), Subpart DDDDDDD)

4.3 For the entire facility, the mixer where materials containing chromium and manganese are added shall be covered at all times when mixing is occurring, except when the

materials are being added to the mixer. Materials containing chromium or manganese shall be added to the mixer in a manner that minimizes emissions.

(Ref.: 40 CFR 63.11621(c), Subpart DDDDDDD)

## SECTION 5. MONITORING AND RECORDKEEPING REQUIREMENTS

Emission Point	Applicable Requirement	Condition Number(s)	Pollutant/Parameter	Monitoring/Recordkeeping Requirement
Facility-Wide	11 Miss. Admin. Code Pt. 2, R. 2.9.	5.1	Recordkeeping	Maintain records for a minimum of 5 years.
	11 Miss. Admin. Code Pt. 2, R. 2.2.B(11).	5.2	Production	Monitor and Record Total Feed Mill Production
	11 Miss. Admin. Code Pt. 2, R. 2.2.B(11).	5.3	PM <sub>10</sub> PM <sub>2.5</sub>	Monitor and Record Emissions
	40 CFR 63.11624(c)(1), (2), (7), (8), and (9), Subpart DDDDDDD	5.4	Recordkeeping	Notification and Compliance Certification Requirement
AA-001 AA-002	40 CFR 60.48c(f)(1), Subpart Dc	5.5	Recordkeeping	Maintain monthly fuel supplier certification records for distillate fuel oil combusted.
	40 CFR 60.48c(g)(2), Subpart Dc	5.6	Fuel Usage	Record Monthly Fuel Combustion
AB-001 AB-002 AB-003 AF-004 AF-005	40 CFR 63.11622(a) and 63.11624(c)(3), Subpart DDDDDDD	5.7	HAP	Monthly Inspections of Control Devices
				Inspection Recordkeeping Requirement
AC-001 AC-002 AC-003 AC-004 AC-005 AC-006 AC-007 AC-008 AC-009 AC-010 AD-001 AF-001 AF-002 AF-003 AF-006 AF-007	11 Miss. Admin. Code Pt. 2, R. 2.2.B(11).	5.8	Opacity	Monthly Inspections of Control Devices.
				Inspection Recordkeeping Requirement.
AC-005 AC-006 AC-007	11 Miss. Admin. Code Pt. 2, R. 2.2.B(11).	5.9	PM <sub>10</sub> PM <sub>2.5</sub>	Conduct Triennial Stack Test

Emission Point	Applicable Requirement	Condition Number(s)	Pollutant/Parameter	Monitoring/Recordkeeping Requirement
AE-001 AE-002 AE-003	11 Miss. Admin. Code Pt. 2, R. 2.2.B(11).	5.10	PM <sub>10</sub> PM <sub>2.5</sub>	Conduct Triennial Stack Test
	40 CFR 63.11622(b)(1) and (3), Subpart DDDDDDD	5.11	HAP	Monitor and Inspect the Cyclone Perform Weekly Visual Inspection of the Cyclone
	40 CFR 63.11624(c)(5), Subpart DDDDDDD	5.12	HAP	Inspection Recordkeeping Requirement

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

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

5.2 For the entire facility, the permittee shall monitor and record Total Feed Mill Production in tpy, as determined on a monthly basis and for each 12-month period on a rolling basis. The permittee shall determine Total Feed Mill Production using, but not limited to, purchase orders of feed received, feed delivery receipts, the manufacturer's specifications, and hours of operation.

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

5.3 For the entire facility, the permittee shall monitor and record PM<sub>10</sub> and PM<sub>2.5</sub> emissions in tpy, as determined on a monthly basis and for each 12-month period on a rolling basis. Emissions shall be calculated using, but not limited to, control device data, feed throughput, hours of operation, manufacturer's specifications, stack testing, and EPA AP-42.

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

5.4 For the entire facility, the permittee shall keep the following records:

- (a) As required in 40 CFR 63.10(b)(2)(xiv), the permittee shall keep a copy of each notification that the permittee submitted to comply with 40 CFR 63, Subpart DDDDDDD in accordance with 40 CFR 63.11624(a), Subpart DDDDDDD, and all documentation supporting any Initial Notification or Notification of Compliance Status that the permittee submitted.
- (b) The permittee shall keep a copy of each Annual Compliance Certification prepared in accordance with 40 CFR 63.11624(b), Subpart DDDDDDD.

Records shall be in a form suitable and readily available for expeditious review, according to 40 CFR 63.10(b)(1), Subpart A, and records shall be kept for 5 years following the date of each recorded action. The permittee shall keep each record onsite for at least 2 years after the date of each recorded action according to 40 CFR 63.10(b)(1), Subpart A. The permittee may keep the records offsite for the remaining 3 years.

(Ref.: 40 CFR 63.11624(c)(1), (2), (7), (8), and (9), Subpart DDDDDDD)

5.5 For Emission Points AA-001 and AA-002, the permittee record and maintain fuel supplier certification. The fuel supplier certification shall include the following:

(a) For distillate oil:

- (1) The name of the oil supplier;
- (2) A statement from the oil supplier that the oil complies with the specifications under the definition of distillate oil in 40 CFR 60.41c, Subpart Dc; and
- (3) The sulfur content or maximum sulfur content of the oil.

(b) For other fuels:

- (1) The name of the supplier of the fuel;
- (2) The potential sulfur emissions rate or maximum potential sulfur emissions rate of the fuel in ng/J heat input; and
- (3) The method used to determine the potential sulfur emissions rate of the fuel.

(Ref.: 40 CFR 60.48c(f)(1) and (4), Subpart Dc)

5.6 For Emission Points AA-001 and AA-002, the permittee shall record and maintain records of the amount of fuel combusted during each calendar month.

(Ref.: 40 CFR 60.48c(g)(2), Subpart Dc)

5.7 For Emission Points AB-001, AB-002, AB-003, AF-004, and AF-005, the permittee shall perform monthly inspections of each device to ensure the device is operating according to



manufacturer's specifications. The permittee shall keep and maintain the following records of the monthly inspections:

- (a) The date, place, and time of each inspection;
- (b) Person performing the inspection, and;
- (c) Results of the inspection, including the date, time, and duration of the corrective action period from the time the inspection indicated a problem to the time of the indication that the device was replaced or restored to operation.

(Ref.: 40 CFR 63.11622(a) and 63.11624(c)(3), Subpart DDDDDDD and 11 Miss. Admin. Code Pt. 2, R. 2.2.B(11).)

5.8 For Emission Points AC-001, AC-002, AC-003, AC-004, AC-005, AC-006, AC-007, AC-008, AC-009, AC-010, AD-001, AF-001, AF-002, AF-003, AF-006, and AF-007, the permittee shall perform monthly inspections of each device to ensure the device is operating according to manufacturer's specifications. The permittee shall keep and maintain the following records of the monthly inspections:

- (a) The date, place, and time of each inspection;
- (b) Person performing the inspection, and;
- (c) Results of the inspection, including the date, time, and duration of the corrective action period from the time the inspection indicated a problem to the time of the indication that the device was replaced or restored to operation.

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

5.9 For Emission Points AC-005, AC-006, and AC-007, beginning with the issuance of this permit, the permittee shall conduct triennial stack tests on a rotational basis for PM<sub>10</sub> and PM<sub>2.5</sub> emissions. The permittee shall stack test a baghouse once every 3 years, not to exceed 36 months from the previous stack test. The permittee shall conduct each stack test in accordance with EPA Test Methods 5 and 201, or an EPA approved equivalent. The permittee shall use the results of the most recent stack test, hours of operation,

production, etc. to calculate PM<sub>10</sub> and PM<sub>2.5</sub> emissions on a monthly basis in tons and the 12-month rolling total in tpy.

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

- 5.10 For Emission Points AE-001, AE-002, and AE-003, beginning with the issuance of this permit, the permittee shall conduct triennial stack tests on a rotational basis for PM<sub>10</sub> and PM<sub>2.5</sub> emissions. The permittee shall stack test a cyclone once every 3 years, not to exceed 36 months from the previous stack test. The permittee shall conduct each stack test in accordance with EPA Test Methods 5 and 201, or an EPA approved equivalent. The permittee shall use the results of the most recent stack test, hours of operation, production, etc. to calculate PM<sub>10</sub> and PM<sub>2.5</sub> emissions on a monthly basis in tons and the 12-month rolling total in tpy.

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

- 5.11 For Emission Points AE-001, AE-002, and AE-003, the permittee shall comply the following inspection and monitoring requirements:

- (a) The permittee shall perform quarterly inspections of the cyclone for corrosion, erosion, or any other damage that could result in air in-leakage, and record the results in accordance with Condition 5.12 (40 CFR 63.11624(c), Subpart DDDDDDD).
- (b) The permittee shall perform a weekly visual inspection of the operating cyclone to ensure it is operating consistent with good air pollution control practices.

(Ref.: 40 CFR 63.11622(b)(1) and (3), Subpart DDDDDDD)

- 5.12 For Emission Points AE-001, AE-002, and AE-003, the permittee shall keep the following records:

- (a) Records of all quarterly inspections. The quarterly inspection records shall include the following:
  - (1) The date, place, and time of each inspection;
  - (2) Person performing the inspection, and;

- (3) Results of the inspection, including the date, time, and duration of the corrective action period from the time the inspection indicated a problem to the time of the indication that the cyclone was restored to proper operation.
- (b) Records of weekly visual inspections of the operating cyclone, including a record of any corrective action taken as a result of the inspection.

(Ref.: 40 CFR 63.11624(c)(5), Subpart DDDDDDD)

## SECTION 6. REPORTING REQUIREMENTS

Emission Point	Applicable Requirement	Condition Number(s)	Reporting Requirement
Facility-Wide	11 Miss. Admin. Code Pt. 2, R. 2.2.B(11).	6.1	Report permit deviations within five (5) working days.
	11 Miss. Admin. Code Pt. 2, R. 2.2.B(11).	6.2	Submit certified annual monitoring report.
	11 Miss. Admin. Code Pt. 2, R. 2.2.B(11).	6.3	All documents submitted to MDEQ shall be certified by a Responsible Official.
	11 Miss. Admin. Code Pt. 2, R. 2.2.B(11).	6.4	PM <sub>10</sub> and PM <sub>2.5</sub> Emissions Monitoring Report
	40 CFR 63.11624(b)(1), (2), (3), (5), and (7), Subpart DDDDDDD	6.5	Annual Monitoring Report
	40 CFR 63.11624(d), Subpart DDDDDDD	6.6	Notification Requirement
AC-005 AC-006 AC-007 AE-001 AE-002 AE-003	11 Miss. Admin. Code Pt. 2, R. 2.2.B(11).	6.7	Stack Test Reporting Requirement

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

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

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

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

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

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

6.4 For the entire facility, the permittee shall submit an annual monitoring report, in accordance with Condition 6.2, containing total PM<sub>10</sub> and PM<sub>2.5</sub> emission calculations in tons per month and tpy for each consecutive 12-month period. The report shall include the supporting calculations which could include, but is not limited to, equipment hours of operation, manufacturer's specifications, throughput, fuel combusted, EPA AP-42 guidance, etc.

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

6.5 For the entire facility, the permittee shall prepare and submit an annual monitoring report for the previous year by March 1 of each year. The annual compliance report shall contain the following information:

(a) The company's name and address.

- (b) A statement by a responsible official with that official's name, title, phone number, e-mail address and signature, certifying the truth, accuracy, and completeness of the notification and a statement of whether the source has complied with all the relevant standards and other requirements of 40 CFR 63, Subpart DDDDDDD.
- (c) If the source is not in compliance, include a description of deviations from the applicable requirements, the time periods during which the deviations occurred, and the corrective actions taken.
- (d) For Emission Points AE-001, AE-002, and AE-003, the permittee shall identify all instances when the cyclone was not operating properly as determined in accordance with Condition 3.16 (40 CFR 63.11621(f), Subpart DDDDDDD).
- (e) For Emission Points AE-001, AE-002, and AE-003, the permittee shall notify the DEQ if the average daily feed production level for the previous year was 50 tpd or less and that the facility is no longer complying with Condition 3.16 (40 CFR 63.11621(f), Subpart DDDDDDD).

(Ref.: 40 CFR 63.11624(b)(1), (2), (3), (5), and (7), Subpart DDDDDDD)

6.6 For the entire facility, if the facility no longer uses materials that contain manganese or chromium, the permittee shall submit a Notification in accordance with 40 CFR 63.11619(c), Subpart DDDDDDD which includes the following information:

- (a) The company's name and address;
- (b) A statement by a responsible official indicating that the facility no longer uses materials that contain chromium or manganese. This statement should also include an effective date for the termination of use of materials that contain chromium or manganese, and the responsible official's name, title, phone number, e-mail address, and signature.

(Ref.: 40 CFR 63.11624(d), Subpart DDDDDDD)

6.7 For Emission Points AC-005, AC-006, AC-007, AE-001, AE-002, and AE-003, the permittee shall submit a stack test report for PM<sub>10</sub> and PM<sub>2.5</sub> emissions within 60 days of completing the test.

As part of the test report, the permittee shall provide the average operating rate during testing of the process associated with the units being tested.

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

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