



Mitchell E. Daniels, Jr.  
Governor

Thomas W. Easterly  
Commissioner

100 North Senate Avenue  
Indianapolis, Indiana 46204  
(317) 232-8603  
(800) 451-6027  
www.IN.gov/idem

TO: Interested Parties / Applicant  
DATE: January 25, 2006  
RE: Tyson Foods, Inc - Ramsey Mills / 061-20212-00010  
FROM: Paul Dubenetzky  
Chief, Permits Branch  
Office of Air Quality

### Notice of Decision: Approval - Effective Immediately

Please be advised that on behalf of the Commissioner of the Department of Environmental Management, I have issued a decision regarding the enclosed matter. Pursuant to IC 13-15-5-3, this permit is effective immediately, unless a petition for stay of effectiveness is filed and granted according to IC 13-15-6-3, and may be revoked or modified in accordance with the provisions of IC 13-15-7-1.

If you wish to challenge this decision, IC 4-21.5-3 and IC 13-15-6-1 require that you file a petition for administrative review. This petition may include a request for stay of effectiveness and must be submitted to the Office of Environmental Adjudication, 100 North Senate Avenue, Government Center North, Room 1049, Indianapolis, IN 46204, **within eighteen (18) calendar days of the mailing of this notice**. The filing of a petition for administrative review is complete on the earliest of the following dates that apply to the filing:

- (1) the date the document is delivered to the Office of Environmental Adjudication (OEA);
- (2) the date of the postmark on the envelope containing the document, if the document is mailed to OEA by U.S. mail; or
- (3) The date on which the document is deposited with a private carrier, as shown by receipt issued by the carrier, if the document is sent to the OEA by private carrier.

The petition must include facts demonstrating that you are either the applicant, a person aggrieved or adversely affected by the decision or otherwise entitled to review by law. Please identify the permit, decision, or other order for which you seek review by permit number, name of the applicant, location, date of this notice and all of the following:

- (1) the name and address of the person making the request;
- (2) the interest of the person making the request;
- (3) identification of any persons represented by the person making the request;
- (4) the reasons, with particularity, for the request;
- (5) the issues, with particularity, proposed for considerations at any hearing; and
- (6) identification of the terms and conditions which, in the judgment of the person making the request, would be appropriate in the case in question to satisfy the requirements of the law governing documents of the type issued by the Commissioner.

If you have technical questions regarding the enclosed documents, please contact the Office of Air Quality, Permits Branch at (317) 233-0178. Callers from within Indiana may call toll-free at 1-800-451-6027, ext. 3-0178.

Enclosures  
FNPER.dot 1/10/05



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## MINOR SOURCE OPERATING PERMIT RENEWAL OFFICE OF AIR QUALITY

**Tyson Foods, Inc. - Ramsey Feed Mill  
495 Highway 64 W  
Ramsey, Indiana 47166**

(herein known as the Permittee) is hereby authorized to operate subject to the conditions contained herein, the emission units described in Section A (Source Summary) of this permit.

This permit is issued to the above mentioned company under the provisions of 326 IAC 2-1.1, 326 IAC 2-6.1 and 40 CFR 52.780, with conditions listed on the attached pages.

Operation Permit No.: MSOP 061-20212-00010	
Original signed by: Paul Dubenetzky, Assistant Commissioner Office of Air Quality	Issuance Date: January 25, 2006  Expiration Date: January 25, 2011

## TABLE OF CONTENTS

<b>A</b>	<b>SOURCE SUMMARY</b> .....	4
A.1	General Information [326 IAC 2-5.1-3(c)] [326 IAC 2-6.1-4(a)]	
A.2	Emission Units and Pollution Control Equipment Summary	
<b>B</b>	<b>GENERAL CONDITIONS</b> .....	6
B.1	Permit No Defense [IC 13]	
B.2	Definitions	
B.3	Effective Date of the Permit [IC 13-15-5-3]	
B.4	Permit Term and Renewal [326 IAC 2-6.1-7(a)] [326 IAC 2-1.1-9.5]	
B.5	Modification to Permit [326 IAC 2]	
B.6	Annual Notification [326 IAC 2-6.1-5(a)(5)]	
B.7	Preventive Maintenance Plan [326 IAC 1-6-3]	
B.8	Permit Revision [326 IAC 2-5.1-3(e)(3)] [326 IAC 2-6.1-6]	
B.9	Inspection and Entry [326 IAC 2-5.1-3(e)(4)(B)] [326 IAC 2-6.1-5(a)(4)] [IC 13-14-2-2] [IC 13-17-3-2] [IC 13-30-3-1]	
B.10	Transfer of Ownership or Operation [326 IAC 2-6.1-6(d)(3)]	
B.11	Annual Fee Payment [326 IAC 2-1.1-7]	
B.12	Credible Evidence [326 IAC 1-1-6]	
<b>C</b>	<b>SOURCE OPERATION CONDITIONS</b> .....	9
C.1	Particulate Emission Limitation For Processes with Process Weight Rates Less Than One Hundred (100) Pounds per Hour [326 IAC 6-3-2]	
C.2	Permit Revocation [326 IAC 2-1.1-9]	
C.3	Opacity [326 IAC 5-1]	
C.4	Fugitive Dust Emissions [326 IAC 6-4]	
C.5	Stack Height [326 IAC 1-7]	
C.6	Asbestos Abatement Projects [326 IAC 14-10] [326 IAC 18] [40 CFR 61, Subpart M]	
	<b>Testing Requirements</b>	
C.7	Performance Testing [326 IAC 3-6]	
	<b>Compliance Requirements [326 IAC 2-1.1-11]</b>	
C.8	Compliance Requirements [326 IAC 2-1.1-11]	
	<b>Compliance Monitoring Requirements</b>	
C.9	Compliance Monitoring [326 IAC 2-1.1-11]	
C.10	Monitoring Methods [326 IAC 3] [40 CFR 60] [40 CFR 63]	
C.11	Instrument Specifications [326 IAC 2-1.1-11]	
C.12	Response to Excursions or Exceedances	
C.13	Actions Related to Noncompliance Demonstrated by a Stack Test	
	<b>Record Keeping and Reporting Requirements</b>	
C.14	Malfunctions Report [326 IAC 1-6-2]	
C.15	General Record Keeping Requirements [326 IAC 2-6.1-5]	
C.16	General Reporting Requirements [326 IAC 2-1.1-11] [326 IAC 2-6.1-5] [IC 13-14-1-13]	
<b>D.1</b>	<b>EMISSIONS UNIT OPERATION CONDITIONS: Feed Mill</b> .....	15
	<b>Emission Limitations and Standards</b>	
D.1.1	Particulate [326 IAC 6-3-2]	
D.1.2	Preventive Maintenance Plan [326 IAC 1-6-3]	

**Compliance Determination Requirements**

D.1.3 Particulate Control

**Compliance Monitoring Requirements [326 IAC 2-5.1-3(e)(2)] [326 IAC 2-6.1-5(a)(2)]**

- D.1.4 Visible Emissions Notations
- D.1.5 Baghouse Parametric Monitoring
- D.1.6 Broken or Failed Bag Detection
- D.1.7 Cyclone Failure Detection

**Record Keeping and Reporting Requirements [326 IAC 2-5.1-3(e)(2)] [326 IAC 2-6.1-5(a)(2)]**

D.1.8 Record Keeping Requirements

**D.2 EMISSIONS UNIT OPERATION CONDITIONS:** Boiler ..... 19

**Emission Limitations and Standards**

D.2.1 Particulate [326 IAC 6-2-3]

**Annual Notification** ..... 20  
**Malfunction Report** ..... 21

## SECTION A

## SOURCE SUMMARY

This permit is based on information requested by the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ). The information describing the source contained in Conditions A.1 and A.2 is descriptive information and does not constitute enforceable conditions. However, the Permittee should be aware that a physical change or a change in the method of operation that may render this descriptive information obsolete or inaccurate may trigger requirements for the Permittee to obtain additional permits or seek modification of this permit pursuant to 326 IAC 2, or change other applicable requirements presented in the permit application.

### A.1 General Information [326 IAC 2-5.1-3(c)] [326 IAC 2-6.1-4(a)]

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The Permittee owns and operates a stationary animal feed mill source.

Authorized Individual:	Feed Mill Manager
Source Address:	495 Highway 64 W, Ramsey, IN 47166
Mailing Address:	P.O. Box 430, Corydon, IN 47112
General Source Phone:	(812) 347-2452
SIC Code:	2048
County Location:	Harrison
Source Location Status:	Attainment for all criteria pollutants
Source Status:	Minor Source Operating Permit Minor Source, under PSD Rules Minor Source, Section 112 of the Clean Air Act

### A.2 Emissions Units and Pollution Control Equipment Summary

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This stationary source is approved to operate the following emissions units and pollution control devices:

- (a) One (1) receiving unit, identified as Unit 1, constructed in 1979/1980 and modified in 1998, controlled by a baghouse, identified as Receiving Leg Baghouse, and exhausting through Stack 01, maximum capacity: 200 tons of grain per hour.
- (b) One (1) pneumatic receiving and storage system, identified as Unit 7, constructed in 1979/1980 and modified in 1998, controlled by two (2) baghouses, identified as Pneumatic Receiving Baghouse and Salt Baghouse, and exhausting through Stack 07, maximum capacity: 20 tons of grain and salt per hour, total.
- (c) One (1) hammermill, identified as Unit 2A, constructed in 1979/1980 and modified in 1998, controlled by a baghouse, identified as Baghouse 1, and exhausting through Stack 02, maximum capacity: 25 tons per hour.
- (d) One (1) hammermill, identified as Unit 2B, constructed in 1979/1980 and modified in 1998, controlled by a baghouse, identified as Baghouse 1, and exhausting through Stack 02, maximum capacity: 35 tons per hour.
- (e) One (1) pellet process including one (1) pellet mill, identified as Unit 3A, and one (1) pellet cooler, identified as Units 3B, constructed in 2000, controlled by two (2) cyclones and exhausting through Stack 03, maximum capacity: 40 tons per hour.
- (f) One (1) mash (ground feed mix) distributor, identified as Unit 4, constructed in 1979/1980 and modified in 1998, exhausting through Stack 04, maximum throughput: 40 tons per hour.

- (g) One (1) feed pellet truck loadout unit, constructed in 1979/1980 and modified in 1998, maximum throughput: 60 tons per hour.
- (h) One (1) propane fired boiler, identified as Unit 5, constructed in 1979, exhausting through Stack 05, maximum heat input capacity: 8.37 million British thermal units per hour.

**SECTION B GENERAL CONDITIONS**

THIS SECTION OF THE PERMIT IS BEING ISSUED UNDER THE PROVISIONS OF 326 IAC 2-1.1 AND 40 CFR 52.780, WITH CONDITIONS LISTED BELOW.

**B.1 Permit No Defense [IC 13]**

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This permit to operate does not relieve the Permittee of the responsibility to comply with the provisions of the Indiana Environmental Management Law (IC 13-11 through 13-20; 13-22 through 13-25; and 13-30), the Air Pollution Control Law (IC 13-17) and the rules promulgated thereunder, as well as other applicable local, state, and federal requirements.

**B.2 Definitions**

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Terms in this permit shall have the definition assigned to such terms in the referenced regulation. In the absence of definitions in the referenced regulation, the applicable definitions found in the statutes or regulations IC 13-11, 326 IAC 1-2, and 326 IAC 2-1.1-1 shall prevail.

**B.3 Effective Date of the Permit [IC13-15-5-3]**

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Pursuant to IC 13-15-5-3, this permit becomes effective upon its issuance.

**B.4 Permit Term and Renewal [326 IAC 2-6.1-7(a)] [326 IAC 2-1.1-9.5]**

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This permit is issued for a fixed term of five (5) years from the issuance date of this permit, as determined in accordance with IC 4-21.5-3-5(f) and IC 13-15-5-3. Subsequent revisions of this permit do not affect the expiration date.

The Permittee shall apply for an operation permit renewal at least ninety (90) days prior to the expiration date. If a timely and sufficient permit application for a renewal has been made, this permit shall not expire and all terms and conditions shall continue in effect until the renewal permit has been issued or denied.

**B.5 Modification to Permit [326 IAC 2]**

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All requirements and conditions of this operating permit shall remain in effect unless modified in a manner consistent with procedures established for modifications of construction permits pursuant to 326 IAC 2 (Permit Review Rules).

**B.6 Annual Notification [326 IAC 2-6.1-5(a)(5)]**

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- (a) Annual notification shall be submitted to the Office of Air Quality stating whether or not the source is in operation and in compliance with the terms and conditions contained in this permit.
- (b) Noncompliance with any condition must be specifically identified. If there are any permit conditions or requirements for which the source is not in compliance at any time during the year, the Permittee must provide a narrative description of how the source did or will achieve compliance and the date compliance was, or will be, achieved. The notification must be signed by an authorized individual.
- (c) The annual notice shall cover the time period from January 1 to December 31 of the previous year, and shall be submitted in the format attached no later than March 1 of each year to:

Compliance Branch, Office of Air Quality  
Indiana Department of Environmental Management  
100 North Senate Avenue  
Indianapolis, Indiana 46204-2251

- (d) The notification shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ, on or before the date it is due.

**B.7 Preventive Maintenance Plan [326 IAC 1-6-3]**

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- (a) If required by specific condition(s) in Section D of this permit, the Permittee shall maintain Preventive Maintenance Plans (PMPs), including the following information on each emissions unit:
- (1) Identification of the individual(s) responsible for inspecting, maintaining, and repairing emission control devices;
  - (2) A description of the items or conditions that will be inspected and the inspection schedule for said items or conditions; and
  - (3) Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.
- (b) A copy of the PMPs shall be submitted to IDEM, OAQ, upon request and within a reasonable time, and shall be subject to review and approval by IDEM, OAQ. IDEM, OAQ, may require the Permittee to revise its PMPs whenever lack of proper maintenance causes or is the primary contributor to an exceedance of any limitation on emissions or potential to emit. The PMPs do not require the certification an "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (c) To the extent the Permittee is required by 40 CFR Part 60/63 to have an Operation Maintenance, and Monitoring (OMM) Plan for a unit, such Plan is deemed to satisfy the PMP requirements of 326 IAC 1-6-3 for that unit.

**B.8 Permit Revision [326 IAC 2-5.1-3(e)(3)] [326 IAC 2-6.1-6]**

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- (a) Permit revisions are governed by the requirements of 326 IAC 2-6.1-6.
- (b) Any application requesting an amendment or modification of this permit shall be submitted to:
- Indiana Department of Environmental Management  
Permits Branch, Office of Air Quality  
100 North Senate Avenue  
Indianapolis, Indiana 46204-2251
- Any such application shall be certified by an "authorized individual" as defined by 326 IAC 2-1.1-1.
- (c) The Permittee shall notify the OAQ within thirty (30) calendar days of implementing a notice-only change. [326 IAC 2-6.1-6(d)]
- (d) No permit amendment or modification is required for the addition, operation or removal of a non-road engine, as defined in 40 CFR 89.2.

**B.9 Inspection and Entry [326 IAC 2-5.1-3(e)(4)(B)] [326 IAC 2-6.1-5(a)(4)] [IC 13-14-2-2] [IC13-17-3-2] [IC 13-30-3-1]**

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Upon presentation of proper identification cards, credentials, and other documents as may be required by law, and subject to the Permittee's right under all applicable laws and regulations to

assert that the information collected by the agency is confidential and entitled to be treated as such, the Permittee shall allow IDEM, OAQ, U.S. EPA, or an authorized representative to perform the following:

- (a) Enter upon the Permittee's premises where a permitted source is located, or emissions related activity is conducted, or where records must be kept under the conditions of this permit;
- (b) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, have access to and copy, at reasonable times, any records that must be kept under this title or the conditions of this permit or any operating permit revisions;
- (c) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, inspect, at reasonable times, any processes, emissions units (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit or any operating permit revisions;
- (d) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with this permit or applicable requirements; and
- (e) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, utilize any photographic, recording, testing, monitoring, or other equipment for the purpose of assuring compliance with this permit or applicable requirements.

B.10 Transfer of Ownership or Operation [326 IAC 2-6.1-6(d)(3)]

Pursuant to [326 IAC 2-6.1-6(d)(3)]:

- (a) In the event that ownership of this source is changed, the Permittee shall notify IDEM, OAQ, Permits Branch, within thirty (30) days of the change.
- (b) The written notification shall be sufficient to transfer the permit to the new owner by an notice-only change pursuant to 326 IAC 2-6.1-6(d)(3).
- (c) IDEM, OAQ, shall issue a revised permit.

The notification which shall be submitted by the Permittee does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1.

B.11 Annual Fee Payment [326 IAC 2-1.1-7]

- (a) The Permittee shall pay annual fees to IDEM, OAQ within thirty (30) calendar days of receipt of a billing.
- (b) The Permittee may call the following telephone numbers: 1-800-451-6027 or 317-233-4230 (ask for OAQ, Billing, Licensing, and Training Section), to determine the appropriate permit fee.

B.12 Credible Evidence [326 IAC 1-1-6]

For the purpose of submitting compliance certifications or establishing whether or not the Permittee has violated or is in violation of any condition of this permit, nothing in this permit shall preclude the use, including the exclusive use, of any credible evidence or information relevant to whether the Permittee would have been in compliance with the condition of this permit if the appropriate performance or compliance test or procedure had been performed.

**SECTION C**

**SOURCE OPERATION CONDITIONS**

Entire Source

**C.1 Particulate Emission Limitations For Processes with Process Weight Rates Less Than One Hundred (100) Pounds per Hour [326 IAC 6-3-2]**

Pursuant to 326 IAC 6-3-2(e)(2), particulate emissions from any process not exempt under 326 IAC 6-3-1(b) or (c) which has a maximum process weight rate less than one hundred (100) pounds per hour and the methods in 326 IAC 6-3-2(b) through (d) do not apply shall not exceed 0.551 pounds per hour.

**C.2 Permit Revocation [326 IAC 2-1.1-9]**

Pursuant to 326 IAC 2-1.1-9 (Revocation of Permits), this permit to operate may be revoked for any of the following causes:

- (a) Violation of any conditions of this permit.
- (b) Failure to disclose all the relevant facts, or misrepresentation in obtaining this permit.
- (c) Changes in regulatory requirements that mandate either a temporary or permanent reduction of discharge of contaminants. However, the amendment of appropriate sections of this permit shall not require revocation of this permit.
- (d) Noncompliance with orders issued pursuant to 326 IAC 1-5 (Episode Alert Levels) to reduce emissions during an air pollution episode.
- (e) For any cause which establishes in the judgment of IDEM, the fact that continuance of this permit is not consistent with purposes of this article.

**C.3 Opacity [326 IAC 5-1]**

Pursuant to 326 IAC 5-1-2 (Opacity Limitations), except as provided in 326 IAC 5-1-3 (Temporary Alternative Opacity Limitations), opacity shall meet the following, unless otherwise stated in this permit:

- (a) Opacity shall not exceed an average of forty percent (40%) in any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.
- (b) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of fifteen (15) minutes (sixty (60) readings as measured according to 40 CFR 60, Appendix A, Method 9 or fifteen (15) one (1) minute non-overlapping integrated averages for a continuous opacity monitor) in a six (6) hour period.

**C.4 Fugitive Dust Emissions [326 IAC 6-4]**

The Permittee shall not allow fugitive dust to escape beyond the property line or boundaries of the property, right-of-way, or easement on which the source is located, in a manner that would violate 326 IAC 6-4 (Fugitive Dust Emissions).

**C.5 Stack Height [326 IAC 1-7]**

The Permittee shall comply with the applicable provisions of 326 IAC 1-7 (Stack Height Provisions), for all exhaust stacks through which a potential (before controls) of twenty-five (25) tons per year or more of particulate matter or sulfur dioxide is emitted by using good engineering practices (GEP) pursuant to 326 IAC 1-7-3.

C.6 Asbestos Abatement Projects [326 IAC 14-10] [326 IAC 18] [40 CFR 61, Subpart M]

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- (a) Notification requirements apply to each owner or operator. If the combined amount of regulated asbestos containing material (RACM) to be stripped, removed or disturbed is at least 260 linear feet on pipes or 160 square feet on other facility components, or at least thirty-five (35) cubic feet on all facility components, then the notification requirements of 326 IAC 14-10-3 are mandatory. All demolition projects require notification whether or not asbestos is present.
- (b) The Permittee shall ensure that a written notification is sent on a form provided by the Commissioner at least ten (10) working days before asbestos stripping or removal work or before demolition begins, per 326 IAC 14-10-3, and shall update such notice as necessary, including, but not limited to the following:
  - (1) When the amount of affected asbestos containing material increases or decreases by at least twenty percent (20%); or
  - (2) If there is a change in the following:
    - (A) Asbestos removal or demolition start date;
    - (B) Removal or demolition contractor; or
    - (C) Waste disposal site.
- (c) The Permittee shall ensure that the notice is postmarked or delivered according to the guidelines set forth in 326 IAC 14-10-3(2).
- (d) The notice to be submitted shall include the information enumerated in 326 IAC 14-10-3(3).

All required notifications shall be submitted to:

Indiana Department of Environmental Management  
Asbestos Section, Office of Air Quality  
100 North Senate Avenue  
Indianapolis, Indiana 46204-2251

The notice shall include a signed certification from the owner or operator that the information provided in this notification is correct and that only Indiana licensed workers and project supervisors will be used to implement the asbestos removal project. The notifications do not require a certification by an "authorized individual" as defined by 326 IAC 2-7-1(34).

- (e) Procedures for Asbestos Emission Control  
The Permittee shall comply with the applicable emission control procedures in 326 IAC 14-10-4 and 40 CFR 61.145(c). Per 326 IAC 14-10-1, emission control requirements are applicable for any removal or disturbance of RACM greater than three (3) linear feet on pipes or three (3) square feet on any other facility components or a total of at least 0.75 cubic feet on all facility components.
- (f) Demolition and renovation  
The Permittee shall thoroughly inspect the affected facility or part of the facility where the demolition or renovation will occur for the presence of asbestos pursuant to 40 CFR 61.145(a).

- (g) Indiana Accredited Asbestos Inspector  
The Permittee shall comply with 326 IAC 14-10-1(a) that requires the owner or operator, prior to a renovation/demolition, to use an Indiana Accredited Asbestos Inspector to thoroughly inspect the affected portion of the facility for the presence of asbestos. The requirement to use an Indiana Accredited Asbestos inspector is not federally enforceable.

## Testing Requirements

### C.7 Performance Testing [326 IAC 3-6]

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- (a) Compliance testing on new emissions units shall be conducted within 60 days after achieving maximum production rate, but no later than 180 days after initial start-up, if specified in Section D of this approval. All testing shall be performed according to the provisions of 326 IAC 3-6 (Source Sampling Procedures), except as provided elsewhere in this permit, utilizing any applicable procedures and analysis methods specified in 40 CFR 51, 40 CFR 60, 40 CFR 61, 40 CFR 63, 40 CFR 75, or other procedures approved by IDEM, OAQ.

A test protocol, except as provided elsewhere in this permit, shall be submitted to:

Indiana Department of Environmental Management  
Compliance Data Section, Office of Air Quality  
100 North Senate Avenue  
Indianapolis, Indiana 46204-2251

no later than thirty-five (35) days prior to the intended test date.

- (b) The Permittee shall notify IDEM, OAQ of the actual test date at least fourteen (14) days prior to the actual date.
- (c) Pursuant to 326 IAC 3-6-4(b), all test reports must be received by IDEM, OAQ not later than forty-five (45) days after the completion of the testing. An extension may be granted by the IDEM, OAQ, if the Permittee submits to IDEM, OAQ, a reasonable written explanation not later than five (5) days prior to the end of the initial forty-five (45) day period.

## Compliance Requirements [326 IAC 2-1.1-11]

### C.8 Compliance Requirements [326 IAC 2-1.1-11]

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The commissioner may require stack testing, monitoring, or reporting at any time to assure compliance with all applicable requirements by issuing an order under 326 IAC 2-1.1-11. Any monitoring or testing shall be performed in accordance with 326 IAC 3 or other methods approved by the commissioner or the U.S. EPA.

## Compliance Monitoring Requirements

### C.9 Compliance Monitoring [326 IAC 2-1.1-11]

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Compliance with applicable requirements shall be documented as required by this permit. The Permittee shall be responsible for installing any necessary equipment and initiating any required monitoring related to that equipment. All monitoring and record keeping requirements not already legally required shall be implemented when operation begins.

### C.10 Monitoring Methods [326 IAC 3] [40 CFR 60] [40 CFR 63]

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Any monitoring or testing required by Section D of this permit shall be performed according to the provisions of 326 IAC 3, 40 CFR 60, Appendix A, 40 CFR 60, Appendix B, 40 CFR 63, or other

approved methods as specified in this permit.

C.11 Instrument Specifications [326 IAC 2-1.1-11]

- (a) When required by any condition of this permit, an analog instrument used to measure a parameter related to the operation of an air pollution control device shall have a scale such that the expected maximum reading for the normal range shall be no less than twenty percent (20%) of full scale.
- (b) The Permittee may request that the IDEM, OAQ approve the use of an instrument that does not meet the above specifications provided the Permittee can demonstrate that an alternative instrument specification will adequately ensure compliance with permit conditions requiring the measurement of the parameters.

C.12 Response to Excursions or Exceedances

- (a) Upon detecting an excursion or exceedance, the Permittee shall restore operation of the emissions unit (including any 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.
- (b) 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). Corrective actions may include, but are not limited to, the following:
  - (1) initial inspection and evaluation;
  - (2) recording that operations returned to normal without operator action (such as through response by a computerized distribution control system); or
  - (3) 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.
- (c) A 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, the following:
  - (1) monitoring results;
  - (2) review of operation and maintenance procedures and records;
  - (3) inspection of the control device, associated capture system, and the process.
- (d) Failure to take reasonable response steps shall be considered a deviation from the permit.
- (e) The Permittee shall maintain the following records:
  - (1) monitoring data;
  - (2) monitor performance data, if applicable; and
  - (3) corrective actions taken.

**C.13 Actions Related to Noncompliance Demonstrated by a Stack Test**

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- (a) When the results of a stack test performed in conformance with Section C - Performance Testing, of this permit exceed the level specified in any condition of this permit, the Permittee shall take appropriate response actions. The Permittee shall submit a description of these response actions to IDEM, OAQ, within thirty (30) days of receipt of the test results. The Permittee shall take appropriate action to minimize excess emissions from the affected emissions unit while the response actions are being implemented.
- (b) A retest to demonstrate compliance shall be performed within one hundred twenty (120) days of receipt of the original test results. Should the Permittee demonstrate to IDEM, OAQ that re-testing in one-hundred and twenty (120) days is not practicable, IDEM, OAQ may extend the re-testing deadline.
- (c) IDEM, OAQ reserves the authority to take any actions allowed under law in response to non-compliant stack tests.

The response action documents submitted pursuant to this condition do not require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1.

**Record Keeping and Reporting Requirements**

**C.14 Malfunctions Report [326 IAC 1-6-2]**

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Pursuant to 326 IAC 1-6-2 (Records; Notice of Malfunction):

- (a) A record of all malfunctions, including startups or shutdowns of any facility or emission control equipment, which result in violations of applicable air pollution control regulations or applicable emission limitations shall be kept and retained for a period of three (3) years and shall be made available to the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ) or appointed representative upon request.
- (b) When a malfunction of any facility or emission control equipment occurs which lasts more than one (1) hour, said condition shall be reported to OAQ, using the Malfunction Report Forms (2 pages). Notification shall be made by telephone or facsimile, as soon as practicable, but in no event later than four (4) daytime business hours after the beginning of said occurrence.
- (c) Failure to report a malfunction of any emission control equipment shall constitute a violation of 326 IAC 1-6, and any other applicable rules. Information of the scope and expected duration of the malfunction shall be provided, including the items specified in 326 IAC 1-6-2(a)(1) through (6).
- (d) Malfunction is defined as any sudden, unavoidable failure of any air pollution control equipment, process, or combustion or process equipment to operate in a normal and usual manner. [326 IAC 1-2-39]

**C.15 General Record Keeping Requirements [326 IAC 2-6.1-5]**

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- (a) Records of all required monitoring data, reports and support information required by this permit shall be retained for a period of at least five (5) years from the date of monitoring sample, measurement, report, or application. These records shall be physically present or electronically accessible at the source location for a minimum of three (3) years. The records may be stored elsewhere for the remaining two (2) years as long as they are available upon request. If the Commissioner makes a request for records to the Permittee, the Permittee shall furnish the records to the Commissioner within a reasonable time.

- (b) Unless otherwise specified in this permit, all record keeping requirements not already legally required shall be implemented when operation begins.

C.16 General Reporting Requirements [326 IAC 2-1.1-11] [326 IAC 2-6.1-5] [IC 13-14-1-13]

- (a) Reports required by conditions in Section D of this permit shall be submitted to:

Indiana Department of Environmental Management  
Compliance Data Section, Office of Air Quality  
100 North Senate Avenue  
Indianapolis, Indiana 46204-2251

- (b) Unless otherwise specified in this permit, any notice, report, or other submission required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ, on or before the date it is due.
- (c) Unless otherwise specified in this permit, any report required in Section D of this permit shall be submitted within thirty (30) days of the end of the reporting period. The reports do not require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (d) The first report shall cover the period commencing on the date of issuance of this permit and ending on the last day of the reporting period. Reporting periods are based on calendar years, unless otherwise specified in this permit. For the purpose of this permit "calendar year" means the twelve (12) month period from January 1 to December 31 inclusive.

## SECTION D.1

## EMISSIONS UNITS OPERATION CONDITIONS

### Emissions Unit Description:

- (a) One (1) receiving unit, identified as Unit 1, constructed in 1979/1980 and modified in 1998, controlled by a baghouse, identified as Receiving Leg Baghouse, and exhausting through Stack 01, maximum capacity: 200 tons of grain per hour.
- (b) One (1) pneumatic receiving and storage system, identified as Unit 7, constructed in 1979/1980 and modified in 1998, controlled by two (2) baghouses, identified as Pneumatic Receiving Baghouse and Salt Baghouse, and exhausting through Stack 07, maximum capacity: 20 tons of grain and salt per hour, total.
- (c) One (1) hammermill, identified as Unit 2A, constructed in 1979/1980 and modified in 1998, controlled by a baghouse, identified as Baghouse 1, and exhausting through Stack 02, maximum capacity: 25 tons per hour.
- (d) One (1) hammermill, identified as Unit 2B, constructed in 1979/1980 and modified in 1998, controlled by a baghouse, identified as Baghouse 1, and exhausting through Stack 02, maximum capacity: 35 tons per hour.
- (e) One (1) pellet process including one (1) pellet mill, identified as Unit 3A, and one (1) pellet cooler, identified as Units 3B, constructed in 2000, controlled by two (2) cyclones and exhausting through Stack 03, maximum capacity: 40 tons per hour.
- (f) One (1) mash (ground feed mix) distributor, identified as Unit 4, constructed in 1979/1980 and modified in 1998, exhausting through Stack 04, maximum throughput: 40 tons per hour.
- (g) One (1) feed pellet truck loadout unit, constructed in 1979/1980 and modified in 1998, maximum throughput: 60 tons per hour.

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

### Emission Limitations and Standards

#### D.1.1 Particulate [326 IAC 6-3-2]

- (a) Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), the particulate emission rate from the one (1) receiving unit, identified as Unit 1, shall not exceed 58.5 pounds per hour when operating at a process weight rate of 200 tons per hour.
- (b) Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), the particulate emission rate from the one (1) pneumatic receiving and storage system, identified as Unit 7, shall not exceed 30.5 pounds per hour when operating at a process weight rate of 20 tons per hour.
- (c) Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), the particulate emission rate from the grain handling process, including the mash distributor, shall not exceed 42.5 pounds per hour when operating at a process weight rate of 40 tons per hour.
- (d) Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), the combined particulate emission rate from the hammermilling process, identified

as Units 2A and 2B, shall not exceed 46.3 pounds per hour when operating at a total process weight rate of 60 tons per hour.

- (e) Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), the combined particulate emission rate from the pellet process, identified as Units 3A and 3B, shall not exceed 42.5 pounds per hour when operating at a process weight rate of 40 tons per hour.

Interpolation of the data for the process weight rate up to sixty thousand (60,000) pounds per hour shall be accomplished by use of the equation:

$$E = 4.10 P^{0.67} \quad \text{where } E = \text{rate of emission in pounds per hour and} \\ P = \text{process weight rate in tons per hour}$$

or

The pounds per hour limitations were calculated using the following equation:

Interpolation and extrapolation of the data for the process weight rate in excess of 60,000 pounds per hour shall be accomplished by use of the equation:

$$E = 55.0 P^{0.11} - 40 \quad \text{where } E = \text{rate of emission in pounds per hour;} \\ \text{and } P = \text{process weight rate in tons per hour}$$

#### D.1.2 Preventive Maintenance Plan [326 IAC 1-6-3]

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for the hammermilling and pellet cooling facilities and their control devices.

### Compliance Determination Requirements

#### D.1.3 Particulate Control

- (a) In order to comply with Condition D.1.1 and in order for the control to be considered integral to the process, the one (1) baghouse, identified as Baghouse 1, for particulate control shall be in operation and control emissions from the hammermilling process at all times that the hammermilling process is in operation.
- (b) In order to comply with Condition D.1.1 and in order for the control to be considered integral to the process, the two (2) cyclones for particulate control shall be in operation and control emissions from the pellet cooler at all times that the pellet cooler is in operation.
- (c) In the event that bag failure is observed in a multi-compartment baghouse, if operations will continue for ten (10) days or more after the failure is observed before the failed units will be repaired or replaced, the Permittee shall promptly notify the IDEM, OAQ of the expected date the failed units will be repaired or replaced. The notification shall also include the status of the applicable compliance monitoring parameters with respect to normal, and the results of any response actions taken up to the time of notification.

### Compliance Monitoring Requirements [326 IAC 2-5.1-3(e)(2)] [326 IAC 2-6.1-5(a)(2)]

#### D.1.4 Visible Emissions Notations

- (a) Visible emission notations of the hammermilling and pellet process stack exhausts (Stacks 02 and 03) shall be performed once per day during normal daylight operations. A trained employee shall record whether emissions are normal or abnormal.

- (b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.
- (c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.
- (d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.
- (e) If abnormal emissions are observed, the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions or Exceedances. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances shall be considered a deviation from this permit.

#### D.1.5 Baghouse Parametric Monitoring

- (a) The Permittee shall record the pressure drop across the baghouse, identified as Baghouse 1, used in conjunction with the hammermilling process at least once per day when the hammermilling is in operation. When for any one reading, the pressure drop across the baghouse is outside the normal range of 1.0 and 4.9 inches of water or a range established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions or Exceedances. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances, shall be considered a deviation from this permit.
- (b) The instrument used for determining the pressure shall comply with Section C - Instrument Specifications, of this permit, shall be subject to approval by IDEM, OAQ, and shall be calibrated at least once every six (6) months.

#### D.1.6 Broken or Failed Bag Detection

- (a) For a single compartment baghouse controlling emissions from a process operated continuously, a failed unit and the associated process shall be shut down immediately until the failed unit has been repaired or replaced. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).
- (b) For a single compartment baghouse controlling emissions from a batch process, the feed to the process shall be shut down immediately until the failed unit has been repaired or replaced. The emissions unit shall be shut down no later than the completion of the processing of the material in the line. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).

Bag failure can be indicated by a significant drop in the baghouse's pressure reading with abnormal visible emissions, by an opacity violation, or by other means such as gas temperature, flow rate, air infiltration, leaks, dust traces or triboflows.

#### D.1.7 Cyclone Failure Detection

- (a) For a cyclone controlling emissions from a process operated continuously, a failed unit and the associated process shall be shut down immediately until the failed unit has been repaired or replaced. Operations may continue only if the event qualifies as an emer-

gency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).

- (b) For a cyclone controlling emissions from a batch process, the feed to the process shall be shut down immediately until the failed unit has been repaired or replaced. The emissions unit shall be shut down no later than the completion of the processing of the material in the line. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).

Cyclone failure can be indicated by a significant drop in the cyclone's pressure reading with abnormal visible emissions, by an opacity violation, or by other means such as gas temperature, flow rate, air infiltration, leaks, dust traces or triboflows.

### **Record Keeping and Reporting Requirement**

#### **D.1.8 Record Keeping Requirements**

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- (a) To document compliance with Condition D.1.4, the Permittee shall maintain records of visible emission notations of the hammermilling and pellet process stack exhausts (Stacks 02 and 03) once per day.
- (b) To document compliance with Condition D.1.5, the Permittee shall maintain records once per day of the pressure drop across Baghouse 1 during normal operation.
- (c) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

## SECTION D.2

## EMISSIONS UNIT OPERATION CONDITIONS

### Emissions Unit Description:

- (h) One (1) propane fired boiler, identified as Unit 5, constructed in 1979, exhausting through Stack 05, maximum heat input capacity: 8.37 million British thermal units per hour.

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

### Emission Limitations and Standards

#### D.2.1 Particulate [326 IAC 6-2-3]

Pursuant to 326 IAC 6-2-3(e), particulate emissions from the boiler, which has a heat input capacity of 250 million British thermal units per hour or less and which began operation after June 8, 1972, shall in no case exceed 0.6 pound per million British thermal units, heat input.

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF AIR QUALITY  
COMPLIANCE BRANCH**

**MINOR SOURCE OPERATING PERMIT  
ANNUAL NOTIFICATION**

This form should be used to comply with the notification requirements under 326 IAC 2-6.1-5(a)(5).

<b>Company Name:</b>	<b>Tyson Foods, Inc. - Ramsey Feed Mill</b>
<b>Address:</b>	<b>495 Highway 64 W</b>
<b>City:</b>	<b>Ramsey, IN 47166</b>
<b>Phone #:</b>	<b>(812) 347-2452</b>
<b>MSOP #:</b>	<b>061-20212-00010</b>

I hereby certify that Tyson Foods, Inc. - Ramsey Feed Mill is  still in operation.  
 no longer in operation.

I hereby certify that Tyson Foods, Inc. - Ramsey Feed Mill is  in compliance with the requirements of MSOP 061-20212-00010.  
 not in compliance with the requirements of MSOP 061-20212-00010.

<b>Authorized Individual (typed):</b>
<b>Title:</b>
<b>Signature:</b>
<b>Date:</b>

If there are any conditions or requirements for which the source is not in compliance, provide a narrative description of how the source did or will achieve compliance and the date compliance was, or will be achieved.

<b>Noncompliance:</b>

**MALFUNCTION REPORT**

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF AIR QUALITY  
FAX NUMBER - 317 233-5967**

**This form should only be used to report malfunctions applicable to Rule 326 IAC 1-6  
and to qualify for the exemption under 326 IAC 1-6-4.**

THIS FACILITY MEETS THE APPLICABILITY REQUIREMENTS BECAUSE IT HAS POTENTIAL TO EMIT 25 TONS/YEAR PARTICULATE MATTER ?\_\_\_\_\_, 25 TONS/YEAR SULFUR DIOXIDE ?\_\_\_\_\_, 25 TONS/YEAR NITROGEN OXIDES?\_\_\_\_\_, 25 TONS/YEAR VOC ?\_\_\_\_\_, 25 TONS/YEAR HYDROGEN SULFIDE ?\_\_\_\_\_, 25 TONS/YEAR TOTAL REDUCED SULFUR ?\_\_\_\_\_, 25 TONS/YEAR REDUCED SULFUR COMPOUNDS ?\_\_\_\_\_, 25 TONS/YEAR FLUORIDES ?\_\_\_\_\_, 100TONS/YEAR CARBON MONOXIDE ?\_\_\_\_\_, 10 TONS/YEAR ANY SINGLE HAZARDOUS AIR POLLUTANT ?\_\_\_\_\_, 25 TONS/YEAR ANY COMBINATION HAZARDOUS AIR POLLUTANT ?\_\_\_\_\_, 1 TON/YEAR LEAD OR LEAD COMPOUNDS MEASURED AS ELEMENTAL LEAD ?\_\_\_\_\_, OR IS A SOURCE LISTED UNDER 326 IAC 2-5.1-3(2) ?\_\_\_\_\_. EMISSIONS FROM MALFUNCTIONING CONTROL EQUIPMENT OR PROCESS EQUIPMENT CAUSED EMISSIONS IN EXCESS OF APPLICABLE LIMITATION \_\_\_\_\_.

THIS MALFUNCTION RESULTED IN A VIOLATION OF: 326 IAC \_\_\_\_\_ OR, PERMIT CONDITION # \_\_\_\_\_ AND/OR PERM LIMIT OF \_\_\_\_\_

THIS INCIDENT MEETS THE DEFINITION OF >MALFUNCTION= AS LISTED ON REVERSE SIDE ?    Y        N

THIS MALFUNCTION IS OR WILL BE LONGER THAN THE ONE (1) HOUR REPORTING REQUIREMENT ?    Y        N

COMPANY: \_\_\_\_\_ PHONE NO. (    ) \_\_\_\_\_  
LOCATION: (CITY AND COUNTY) \_\_\_\_\_  
PERMIT NO. \_\_\_\_\_ AFS PLANT ID: \_\_\_\_\_ AFS POINT ID: \_\_\_\_\_ INSP: \_\_\_\_\_  
CONTROL/PROCESS DEVICE WHICH MALFUNCTIONED AND REASON: \_\_\_\_\_

DATE/TIME MALFUNCTION STARTED: \_\_\_\_/\_\_\_\_/20\_\_\_\_        \_\_\_\_\_ AM / PM

ESTIMATED HOURS OF OPERATION WITH MALFUNCTION CONDITION: \_\_\_\_\_

DATE/TIME CONTROL EQUIPMENT BACK-IN SERVICE \_\_\_\_/\_\_\_\_/20\_\_\_\_        \_\_\_\_\_ AM/PM

TYPE OF POLLUTANTS EMITTED: TSP, PM-10, SO2, VOC, OTHER: \_\_\_\_\_

ESTIMATED AMOUNT OF POLLUTANT EMITTED DURING MALFUNCTION: \_\_\_\_\_

MEASURES TAKEN TO MINIMIZE EMISSIONS: \_\_\_\_\_

REASONS WHY FACILITY CANNOT BE SHUTDOWN DURING REPAIRS:

CONTINUED OPERATION REQUIRED TO PROVIDE ESSENTIAL\* SERVICES: \_\_\_\_\_

CONTINUED OPERATION NECESSARY TO PREVENT INJURY TO PERSONS: \_\_\_\_\_

CONTINUED OPERATION NECESSARY TO PREVENT SEVERE DAMAGE TO EQUIPMENT: \_\_\_\_\_

INTERIM CONTROL MEASURES: (IF APPLICABLE) \_\_\_\_\_

MALFUNCTION REPORTED BY: \_\_\_\_\_ TITLE: \_\_\_\_\_  
(SIGNATURE IF FAXED)

MALFUNCTION RECORDED BY: \_\_\_\_\_ DATE: \_\_\_\_\_ TIME: \_\_\_\_\_

\*SEE PAGE 2

**Please note - This form should only be used to report malfunctions applicable to Rule 326 IAC 1-6 and to qualify for the exemption under 326 IAC 1-6-4.**

**326 IAC 1-6-1 Applicability of rule**

Sec. 1. This rule applies to the owner or operator of any facility required to obtain a permit under 326 IAC 2-5.1 or 326 IAC 2-6.1.

**326 IAC 1-2-39 "Malfunction" definition**

Sec. 39. Any sudden, unavoidable failure of any air pollution control equipment, process, or combustion or process equipment to operate in a normal and usual manner.

**\*Essential services** are interpreted to mean those operations, such as, the providing of electricity by power plants. Continued operation solely for the economic benefit of the owner or operator shall not be sufficient reason why a facility cannot be shutdown during a control equipment shutdown.

If this item is checked on the front, please explain rationale:

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**Indiana Department of Environmental Management  
Office of Air Quality**

Technical Support Document (TSD) for a  
Minor Source Operating Permit (MSOP) Renewal

**Source Background and Description**

<b>Source Name:</b>	<b>Tyson Foods, Inc. - Ramsey Feed Mill</b>
<b>Source Location:</b>	<b>495 Highway 64 W, Ramsey, IN 47166</b>
<b>County:</b>	<b>Harrison</b>
<b>SIC Code:</b>	<b>2048</b>
<b>Operation Permit No.:</b>	<b>MSOP 061-11352-00010</b>
<b>Operation Permit Issuance Date:</b>	<b>March 31, 2000</b>
<b>Permit Renewal No.:</b>	<b>MSOP 061-20212-00010</b>
<b>Permit Reviewer:</b>	<b>CarrieAnn Paukowits</b>

The Office of Air Quality (OAQ) has reviewed an application from Tyson Foods, Inc. - Ramsey Feed Mill relating to the operation of an animal feed mill.

**Permitted Emission Units and Pollution Control Equipment**

The source consists of the following permitted emission units and pollution control devices:

- (a) One (1) receiving unit, identified as Unit 1, constructed in 1979/1980 and modified in 1998, controlled by a baghouse, identified as Receiving Leg Baghouse, and exhausting through Stack 01, maximum capacity: 200 tons of grain per hour.
- (b) One (1) pneumatic receiving and storage system, identified as Unit 7, constructed in 1979/1980 and modified in 1998, controlled by two (2) baghouses, identified as Pneumatic Receiving Baghouse and Salt Baghouse, and exhausting through Stack 07, maximum capacity: 20 tons of grain and salt per hour, total.
- (c) One (1) hammermill, identified as Unit 2A, constructed in 1979/1980 and modified in 1998, controlled by a baghouse, identified as Baghouse 1, and exhausting through Stack 02, maximum capacity: 25 tons per hour.
- (d) One (1) hammermill, identified as Unit 2B, constructed in 1979/1980 and modified in 1998, controlled by a baghouse, identified as Baghouse 1, and exhausting through Stack 02, maximum capacity: 35 tons per hour.
- (e) One (1) pellet process including one (1) pellet mill, identified as Unit 3A, and one (1) pellet cooler, identified as Units 3B, constructed in 2000, controlled by two (2) cyclones and exhausting through Stack 03, maximum capacity: 40 tons per hour.
- (f) One (1) mash (ground feed mix) distributor, identified as Unit 4, constructed in 1979/1980 and modified in 1998, exhausting through Stack 04, maximum throughput: 40 tons per hour.
- (g) One (1) feed pellet truck loadout unit, constructed in 1979/1980 and modified in 1998, maximum throughput: 60 tons per hour.
- (h) One (1) propane fired boiler, identified as Unit 5, constructed in 1979, exhausting through Stack 05, maximum heat input capacity: 8.37 million British thermal units per hour.

### **Unpermitted Emission Units and Pollution Control Equipment**

There are no unpermitted emission units operating at this source during this review process.

### **New Emission Units and Pollution Control Equipment**

There are no proposed emission units during this review process.

### **Emission Units and Pollution Control Equipment Removed**

The following facility has been removed from the source and is not included in the proposed permit:

One (1) propane-fired column grain dryer, exhausting through Stack 06, constructed in 1979/1980 and modified in 1998, maximum capacity: 0.18 million British thermal units per hour and 3,600 bushels per hour.

### **Existing Approvals**

The source has been operating under previous approvals including, but not limited to, the following:

- (a) MSOP 061-11352-00010, issued on March 31, 2000; and
- (b) Notice-only Change 061-14286-00010, issued on June 20, 2001.

All terms and conditions from previous approvals were either incorporated as originally stated, revised or deleted by this MSOP. The following terms and conditions have been revised:

- (a) Condition C.13 from MSOP 061-11352-00010, issued March 31, 2000, Compliance Monitoring Plan - Failure to Take Response Steps

Reason not incorporated: IDEM has reconsidered the requirement to develop and follow Compliance Monitoring and Response Plans. The Permittee will still be required to take reasonable response steps when a compliance monitoring parameter is determined to be out of range or abnormal. Replacing the requirement to develop and follow a Compliance Monitoring and Response Plan with a requirement to take reasonable response steps will ensure that the control equipment is returned to proper operation as soon as practicable, while still allowing the Permittee the flexibility to respond to situations that were not anticipated.

- (b) Condition D.1.1 from MSOP 061-11352-00010, issued March 31, 2000: Particulate Matter (PM) [326 IAC 6-3-2(c)]: The PM from the animal feed production facilities combined shall not exceed 42.53 pounds per hour established as E in the following formula based on a process weight rate of 40 tons per hour:

Interpolation and extrapolation of the data for the process weight rate in excess of sixty thousand (60,000) pounds per hour shall be accomplished by use of the equation:

$$E = 55.0 P^{0.11} - 40 \quad \text{where } E = \text{rate of emission in pounds per hour; and} \\ P = \text{process weight rate in tons per hour}$$

The applicable emission rate limitations for the individual emission points of the process line shall be as follows:

Operation	Applicable emission rate limit (lb/hr)
receiving	23.63
pneumatic receiving	2.36
pellet cooler	4.73
mixed feed distributor	4.73
load out	7.09

Reason not incorporated: The 326 IAC 6-3 revisions that became effective on June 12, 2002, were approved into the State Implementation Plan on September 23, 2005. These rules replace the previous version of 326 IAC 6-3 (Process Operations) that had been part of the SIP; therefore, the requirements of the previous version of 326 IAC 6-3-2 are no longer applicable to this source. The facilities at this source are subject to the requirements of the new version of the rule, and those requirements are incorporated into this permit. IDEM, OAQ, has determined that the emission limitations should not be divided among operations when the limit was calculated using a single process weight rate. Since each operation performs a separate function and has a separate exhaust point, each operation is considered a separate process for the purposes of this rule. The requirements of the revised version of the rule are addressed in the *State Rule Applicability - Individual Facilities* section of this document.

- (c) Condition D.1.2 from MSOP 061-11352-00010, issued March 31, 2000: A Preventive Maintenance Plan, in accordance with Section C - Preventive Maintenance Plan, of this permit, is required for these emissions units and any control devices. [“these emissions units” included the pellet process, hammermills, receiving operations, pellet distributor and loadout]

Reason not incorporated: IDEM, OAQ, has determined that the requirement for a Preventive Maintenance Plan is applicable only to the pellet process and hammermilling at this source.

- (d) Condition D.1.4 from MSOP 061-11352-00010, issued March 31, 2000: The particulate matter (PM) emissions from the receiving, pneumatic receiving, hammermills, mash distributor and loadout area shall comply with the following at all times when the units are operating:
- (a) good housekeeping and equipment maintenance procedures are implemented.
  - (b) emissions are minimized by the appropriate methods. These may include but need not be limited to, dust collection systems, windscreens, baffles, restricted hopper openings, enclosed transfer points, flexible drop spouts and/or sleeves.
  - (c) there is no visible accumulation of particulate matter beyond the plant property line, and
  - (d) emissions do not violate 326 IAC 6-4 (Fugitive Dust Emissions).

Reason not incorporated: These requirements have been replaced by visible emission notation requirements for the hammermills. The requirements of (c) and (d) of this

condition are applicable to the entire source and are covered by Condition C.4 - Fugitive Dust Emissions. IDEM, OAQ, has determined that compliance monitoring is not specifically required for the receiving operations, mixed feed distributor and loadout area at this time due to the level of emissions from those processes before controls and the applicable limitations.

- (e) Condition D.1.6(a) from MSOP 061-11352-00010, issued March 31, 2000: Visible emission notations of the pellet cooler stack exhaust shall be performed once per shift during normal daylight operations. A trained employee shall record whether emissions are normal or abnormal.

Reason revised: Visible emission notations of the pellet cooler stack exhaust are still required in this renewal. However, IDEM has determined that once per day monitoring of visible emission notations is generally sufficient to ensure proper operation of the pellet process stack exhaust. Thus, the frequency of the monitoring requirement has been reduced to once per day.

- (f) Conditions D.2.1 through D.2.3 from MSOP 061-11352-00010, issued March 31, 2000: Emissions limitations and Standards and Compliance Determination for the column grain dryer.

Reason not incorporated: The grain dryer has been removed from service.

- (g) Condition D.3.1 from MSOP 061-11352-00010, issued March 31, 2000: Pursuant to 326 IAC 6-2-4(a) (Particulate emission limitations for sources of indirect heating: emission limitations for facilities specified in 326 IAC 6-2-1 (d)), particulate emissions from this facility used for indirect heating purposes which was constructed after September 21, 1983, shall in no case exceed 0.6 pounds of particulate matter per million British thermal units heat input.

Reason not incorporated: The boiler was constructed prior to September 21, 1983. Therefore, the boiler is subject to 326 IAC 6-2-3, and not 326 IAC 6-2-4. However, the requirements are the same.

### **Air Pollution Control Justification as an Integral Part of the Process**

- (a) The company has submitted the following justification such that the one (1) baghouse be considered as an integral part of the two (2) hammermills:

- (1) The air flow is the central processing media for the two (2) hammermills. The negative pressure fan pulls the required cfm (4,500 cfm per baghouse) level of ambient air from the hammermills to recover dust product.

- (2) The dollar amount saved from the collected material by this equipment is much more than the annual capital cost of the baghouse. A price quotation submitted by the applicant estimates the replacement value of grain at \$80 per ton. Using AP-42 emission factors for hammermilling, after control, and the 99% control efficiency of the baghouse, 315 tons of corn fines could potentially be emitted each year without the baghouse. Using this cost, the value of the 315 tons of corn fines that could be potential emitted without the control device is \$25,200. The annualized cost of the baghouse is \$11,001. Thus, the cost savings due to operating the control is \$14,199 per year. In addition, the price quoted on the baghouse is \$55,000. The Permittee estimates a 2.18 year payback for this equipment.

IDEM, OAQ has evaluated the justifications and agreed that the baghouse will be considered as an integral part of the hammermill process. Therefore, the permitting level will be determined using the potential to emit after the baghouse. Operating conditions in the proposed permit will specify that the baghouse shall operate at all times when either hammermill is in operation.

(b) The company has submitted the following justification such that the two (2) cyclones be considered as an integral part of the pellet cooler:

(1) The air flow is the central processing media for the one (1) pellet cooler. The negative pressure fan pulls the required cfm level (10,836 cfm per cyclone) of ambient air through the bed of warm pellets to cool down. This causes the air to pick up some particulate or fines, which is not an optimum condition for the fan to operate because this results in clogging of the fan. Therefore, the cyclones are required between the coolers and the fans for the system to function properly.

(2) The dollar amount saved from the collected material by this equipment is much more than the annual capital cost of the cyclones. A price quotation submitted by the applicant estimates the replacement value of grain at \$80 per ton. Using AP-42 emission factors for pellet cooling, after control, and the 95% control efficiency of the cyclones, 1,262 tons of fines from the pellets could potentially be emitted each year without the cyclones. Using this cost, the value of the 1,262 tons of fines emitted without the control devices is \$100,960. The annualized cost of the control device is \$6,453 per year. Thus, the cost savings due to operating the control is \$94,507 per year. In addition, the price quoted for the cyclones is \$14,070. The Permittee estimates less than two (2) month payback for this equipment. The reduction in purchasing costs has an overwhelming positive net economic effect. In addition, a November 14<sup>th</sup> 1995 EPA memorandum, titled "Calculating PTE and other Guidance for Grain Handling Facilities" states that "control measures are inherent to an operation when they are always operated and maintained for reasons other than community air quality protection. Examples of inherent control measures include (a) product collection devices for which the value of the product collected greatly exceeds the cost of the collection device, and (b) devices for which the primary purpose is to improve product-quality control, to recover product, or to enhance production operating efficiency (for example, product recovery cyclones associated with operations such as pellet coolers at feed mills)". Hence, the potential to emit from the pellet cooler will be calculated after the controls.

IDEM, OAQ has evaluated the justifications and agreed that the two (2) cyclones will be considered as an integral part of the pellet cooling process. Therefore, the permitting level will be determined using the potential to emit after the two (2) cyclones. Operating conditions in the proposed permit will specify that the two (2) cyclones shall operate at all times when the pellet cooler is in operation.

### **Enforcement Issue**

There are no enforcement actions pending.

**Stack Summary**

Stack ID	Operation	Height (ft)	Diameter (ft)	Flow Rate (acfm)	Temperature (°F)
01	Receiving Leg	148.5	1.0	4,500	Ambient
02	Hammermills	138.5	1.0	4,500	Ambient
03	Pellet Cooler	28	2.2	16,000	Ambient
04	Mash Distributor	138.5	1.0	4,500	Ambient
05	Boiler	53	1.2	2,000	180
07	Pneumatic Receiving/Storage	50	1.0	4,500	Ambient

**Recommendation**

The staff recommends to the Commissioner that the operation be approved. This recommendation is based on the following facts and conditions:

Unless otherwise stated, information used in this review was derived from the application and additional information submitted by the applicant.

An application for the purposes of this review was received on October 18, 2004, with additional information received on August 22, September 16, October 26, November 2, November 9, November 10, November 11, and November 29, 2005.

**Emission Calculations**

See Appendix A of this document for detailed emission calculations (pages 1 and 2).

**Potential to Emit of the Source Before Non-integral Controls (After Integral Controls)**

Pursuant to 326 IAC 2-1.1-1(16), Potential to Emit is defined as “the maximum capacity of a stationary source or emissions unit to emit any air pollutant under its physical and operational design. Any physical or operational limitation on the capacity of a source to emit an air pollutant, including air pollution control equipment and restrictions on hours of operation or type or amount of material combusted, stored, or processed shall be treated as part of its design if the limitation is enforceable by the U.S. EPA, the department, or the appropriate local air pollution control agency.”

Pollutant	Potential to Emit (tons/yr)
PM	94.4
PM <sub>10</sub>	43.5
SO <sub>2</sub>	0.007
VOC	0.200
CO	1.28
NO <sub>x</sub>	7.61

HAPs	Potential to Emit (tons/yr)
Individual	negligible
Total	negligible

- (a) The potential to emit (as defined in 326 IAC 2-7-1(29)) of all criteria pollutants is less than one hundred (100) tons per year. Therefore, the source is subject to the provisions of 326 IAC 2-6.1. An MSOP will be issued.
- (b) The potential to emit (as defined in 326 IAC 2-7-1(29)) of any single HAP is less than ten (10) tons per year and the potential to emit (as defined in 326 IAC 2-7-1(29)) of a combination of HAPs is less than twenty-five (25) tons per year. Therefore, the source is not subject to the provisions of 326 IAC 2-7. An MSOP will be issued.
- (c) Fugitive Emissions  
 Since this type of operation is not one of the twenty-eight (28) listed source categories under 326 IAC 2-2 and since there are no applicable New Source Performance Standards that were in effect on August 7, 1980, the fugitive particulate matter (PM) and volatile organic compound (VOC) emissions are not counted toward determination of PSD and Emission Offset applicability.

**County Attainment Status**

The source is located in Harrison County.

Pollutant	Status
PM <sub>2.5</sub>	attainment
PM <sub>10</sub>	attainment
SO <sub>2</sub>	attainment
NO <sub>2</sub>	attainment
1-Hour Ozone	attainment
8-Hour Ozone	attainment
CO	attainment
Lead	attainment

- (a) Volatile organic compounds (VOC) and nitrogen oxides (NO<sub>x</sub>) are regulated under the Clean Air Act (CAA) for the purposes of attaining and maintaining the National Ambient Air Quality Standards (NAAQS) for ozone. Therefore, VOC and NO<sub>x</sub> emissions are considered when evaluating the rule applicability relating to ozone. Harrison County has been designated as attainment or unclassifiable for ozone. Therefore, VOC and NO<sub>x</sub> emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.
- (b) Harrison County has been classified as unclassifiable or attainment for PM<sub>2.5</sub>. U.S. EPA has not yet established the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2 for PM<sub>2.5</sub> emissions. Therefore, until the U.S.EPA adopts specific provisions

for PSD review for PM<sub>2.5</sub> emissions, it has directed states to regulate PM<sub>10</sub> emissions as a surrogate for PM<sub>2.5</sub> emissions.

- (c) Harrison County has been classified as attainment or unclassifiable in Indiana for all remaining criteria pollutants. Therefore, these emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.

### Source Status

Existing Source PSD, Part 70, or FESOP Definition (emissions after controls, based on 8,760 hours of operation per year at rated capacity and/or as otherwise limited):

Pollutant	Emissions (tons/yr)
PM	94.4
PM <sub>10</sub>	43.5
SO <sub>2</sub>	0.007
VOC	0.200
CO	1.28
NO <sub>x</sub>	7.61
Single HAP	negligible
Combination HAPs	negligible

- (a) This existing source is not a major stationary source because no attainment regulated pollutant is emitted at a rate of two-hundred fifty (250) tons per year or greater and it is not in one of the twenty-eight (28) listed source categories.
- (b) Emissions were based on the unrestricted potential to emit of this source as calculated in Appendix A of this document.

### Part 70 Permit Determination

326 IAC 2-7 (Part 70 Permit Program)

This existing source is still not subject to the Part 70 Permit requirements because the potential to emit (PTE) of:

- (a) criteria pollutant is less than one-hundred (100) tons per year,
- (b) a single hazardous air pollutant (HAP) is less than ten (10) tons per year, and
- (c) the combination of HAPs is less than twenty-five (25) tons per year.

This status is based on all the air approvals issued to the source. This status has been verified by the OAQ inspector assigned to the source.

### Federal Rule Applicability

- (a) There are no New Source Performance Standards (NSPS) (326 IAC 12 and 40 CFR Part 60) included in the permit for this source.

- (b) The storage capacity of corn is less than 2.5 million bushels at this source and the corn produced is not for human consumption. Therefore, the requirements of Standards of Performance for Grain Elevators, 326 IAC 12 (40 CFR 60.300, Subpart DD), are not included in the permit for this source.
- (c) The requirements of the Standards of Performance for Fossil-Fuel-Fired Steam Generators for Which Construction is Commenced After August 17, 1971, 326 IAC 12, (40 CFR 60.40, Subpart D), are not included in the permit because the capacity of the one (1) boiler, identified as Unit 5, which was constructed after August 17, 1971, is less than 250 million British thermal units per hour.
- (d) The requirements of the Standards of Performance for Electric Utility Steam Generating Units for Which Construction is Commenced After September 18, 1978, 326 IAC 12, (40 CFR 60.40a, Subpart Da), are not included in the permit because the capacity of the one (1) boiler, identified as Unit 5, which was constructed after September 18, 1978, is less than 250 million British thermal units per hour.
- (e) The requirements of the Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units, 326 IAC 12, (40 CFR 60.40b, Subpart Db), are not included in the permit because the one (1) boiler, identified as Unit 5, was constructed prior to June 19, 1984.
- (f) The requirements of the Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units, 326 IAC 12, (40 CFR 60.40c, Subpart Dc), are not included in the permit because the one (1) boiler, identified as Unit 5, was constructed prior to June 9, 1989.
- (g) There are no National Emission Standards for Hazardous Air Pollutants (NESHAP)(326 IAC 14, 20 and 40 CFR Part 61, 63) included in the permit for this source.
- (h) This source is not a major source of HAPs. Therefore, the requirements of the National Emission Standards for Hazardous Air Pollutants (NESHAP) for Industrial, Commercial, and Institutional Boilers and Process Heaters, 40 CFR 63.7480, Subpart DDDDD, are not included in the permit for this source.

#### **State Rule Applicability – Entire Source**

##### **326 IAC 2-2 (Prevention of Significant Deterioration (PSD))**

The unrestricted potential emissions of each attainment criteria pollutant are less than two-hundred fifty (250) tons per year at this source, constructed after August 7, 1977. Therefore, this source, which is not one of the twenty-eight (28) listed source categories, is not a major source pursuant to 326 IAC 2-2, PSD.

##### **326 IAC 2-6 (Emission Reporting)**

This source is not located in Lake or Porter County with the potential to emit greater than twenty-five (25) tons per year of NO<sub>x</sub>, does not emit five (5) tons per year or more of lead and does not require a Part 70 Operating Permit. Therefore, the requirements of 326 IAC 2-6 do not apply.

### 326 IAC 5-1 (Opacity Limitations)

Pursuant to 326 IAC 5-1-2 (Opacity limitations), except as provided in 326 IAC 5-1-3 (Temporary alternative opacity limitations), opacity shall meet the following, unless otherwise stated in the permit:

- (a) Opacity shall not exceed an average of forty percent (40%) in any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.
- (b) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of fifteen (15) minutes (sixty (60) readings as measured according to 40 CFR 60, Appendix A, Method 9 or fifteen (15) one (1) minute nonoverlapping integrated averages for a continuous opacity monitor) in a six (6) hour period.

### State Rule Applicability – Individual Facilities

#### 326 IAC 6-3 (Particulate Emission Limitations for Manufacturing Processes)

- (a) The potential particulate emissions from the shipping process are less than 0.551 pounds per hour. Therefore, pursuant to 326 IAC 6-3-1(b)(14), the shipping process (loadout unit) is exempt from the requirements of 326 IAC 6-3-2.
- (b) The particulate from the one (1) receiving unit, identified as Unit 1, shall not exceed 58.5 pounds per hour when operating at a process weight rate of 200 tons per hour. The unrestricted potential particulate emissions from the grain receiving process are 3.74 pounds per hour ( $0.075 \text{ lbs/hr} / (1 - 0.98) = 3.74 \text{ lbs/hr}$ ), total, before the integral controls. Therefore, the one (1) receiving unit, identified as Unit 1, will comply with this rule.
- (c) The particulate from the one (1) pneumatic receiving and storage system, identified as Unit 7, shall not exceed 30.5 pounds per hour when operating at a process weight rate of 20 tons per hour. The unrestricted potential particulate emissions from the grain receiving process are 3.74 pounds per hour, total, before controls. Therefore, the grain receiving process will comply with this rule.
- (d) The particulate from the grain handling process, including the mash distributor, shall not exceed 42.5 pounds per hour when operating at a total process weight rate of 40 tons per hour. The unrestricted potential particulate emissions from the grain handling process are 2.44 pounds per hour. Therefore, the grain handling process will comply with this rule.
- (e) The combined particulate from the hammermilling process, identified as Units 2A and 2B, shall not exceed 46.3 pounds per hour when operating at a process weight rate of 60 tons per hour. The unrestricted potential particulate emissions from the hammermilling process are 0.720 pounds per hour. Therefore, the hammermilling process will comply with this rule. The potential emissions from the hammermilling process were calculated after control by the integral baghouse, identified as Baghouse 1. Therefore, the baghouse must be in operation and control emissions from the hammermilling process at all times when the hammermilling is in operation.
- (f) The combined particulate from the pellet process, identified as Units 3A and 3B, shall not exceed 42.5 pounds per hour when operating at a process weight rate of 40 tons per hour. The unrestricted potential particulate emissions from the pellet process are 14.4 pounds per hour. Therefore, the pellet process will comply with this rule. The potential emissions from the pellet cooling process were calculated after control by the integral

cyclones. Therefore, the cyclones must be in operation and control emissions from the pellet cooling process at all times when the pellet cooling is in operation.

These limitations are based upon the following:

Interpolation of the data for the process weight rate up to sixty thousand (60,000) pounds per hour shall be accomplished by use of the equation:

$$E = 4.10 P^{0.67} \quad \text{where } E = \text{rate of emission in pounds per hour and} \\ P = \text{process weight rate in tons per hour}$$

or

Interpolation and extrapolation of the data for the process weight rate in excess of sixty thousand (60,000) pounds per hour shall be accomplished by use of the equation:

$$E = 55.0 P^{0.11} - 40 \quad \text{where } E = \text{rate of emission in pounds per hour and} \\ P = \text{process weight rate in tons per hour}$$

#### 326 IAC 6-2 (Particulate Emission Limitations for Sources of Indirect Heating)

The one (1) boiler at this source was constructed and in operation prior to September 21, 1983 in Harrison County. Therefore, the boiler is subject to the requirements of 326 IAC 6-2-3. Pursuant to 326 IAC 6-2-3(a), particulate emissions from the existing indirect heating facilities shall be limited by the following equation:

$$Pt = (C \times a \times h) / (76.5 \times Q^{0.75} \times N^{0.25})$$

Where: C = Maximum ground level concentration with respect to distance from the point source at the "critical" wind speed for level terrain. This shall equal 50 micrograms per cubic meter for a period not to exceed a sixty (60) minute time period.

Pt = Pounds of particulate matter emitted per million Btu heat input (lb/mmBtu).

Q = Total source maximum operating capacity rating in million Btu per hour (mmBtu/hr) heat input. The maximum operating capacity rating is defined as the maximum capacity at which the facility is operated or the nameplate capacity, whichever is specified in the facility's operation permit application, except when some lower capacity is contained in the facility's operation permit; in which case, the capacity specified in the operation permit shall be used.

N = Number of stacks in fuel burning operation.

a = Plume rise factor which is used to make allowance for less than theoretical plume rise. The value 0.67 shall be used for Q less than or equal to 1,000 mmBtu/hr heat input. The value 0.8 shall be used for Q greater than 1,000 mmBtu/hr heat input.

h = Stack height in feet.

$$Pt = (50 \times 0.67 \times 53) / (76.5 \times 8.37^{0.75} \times 1^{0.25}) = 4.72 \text{ lb/mmBtu}$$

Pursuant to 326 IAC 6-2-3(e), particulate emissions from any facility used for indirect heating purposes which has 250 mmBtu/hr heat input or less and which began operation after June 8, 1972, shall in no case exceed 0.6 lb/mmBtu heat input. The boiler began operation after June 8, 1972. Therefore, the particulate emissions from the boiler shall be limited to 0.6 lb/mmBtu.

Based upon the calculations on page 2 of Appendix A of this document, the particulate emissions from the boiler are 0.240 tons/year, equivalent to 0.0548 lbs/hr or 0.0065 lbs/MMBtu. Therefore, the boiler will comply with this rule.

## Compliance Requirements

Permits issued under 326 IAC 2-6.1 are required to ensure that sources can demonstrate compliance with applicable state and federal rules on a more or less continuous basis. All state and federal rules contain compliance provisions; however, these provisions do not always fulfill the requirement for a more or less continuous demonstration. When this occurs IDEM, OAQ in conjunction with the source, must develop specific conditions to satisfy 326 IAC 2-6.1-5. As a result, compliance requirements are divided into two sections: Compliance Determination Requirements and Compliance Monitoring Requirements.

Compliance Determination Requirements in Section D of the permit are those conditions that are found more or less directly within state and federal rules and the violation of which serves as grounds for enforcement action. If these conditions are not sufficient to demonstrate continuous compliance, they will be supplemented with Compliance Monitoring Requirements, also in Section D of the permit. Unlike Compliance Determination Requirements, failure to meet Compliance Monitoring conditions would serve as a trigger for corrective actions and not grounds for enforcement action. However, a violation in relation to a compliance monitoring condition will arise through a source's failure to take the appropriate corrective actions within a specific time period.

The following compliance monitoring conditions are applicable:

- (a) Visible emission notations of the hammermilling and pellet process stack exhausts (Stacks 02 and 03) shall be performed once per day during normal daylight operations. A trained employee shall record whether emissions are normal or abnormal. For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time. In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions. A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process. If abnormal emissions are observed, the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions or Exceedances. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances shall be considered a deviation from this permit.
- (b) The Permittee shall record the pressure drop across the baghouse used in conjunction with the hammermilling process at least once per day when the hammermilling is in operation. When for any one reading, the pressure drop across the baghouse is outside the normal range of 1.0 and 4.9 inches of water or a range established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions or Exceedances. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances, shall be considered a deviation from this permit. The instrument used for determining the pressure shall comply with Section C - Instrument Specifications, of this permit, shall be subject to approval by IDEM, OAQ, and shall be calibrated at least once every six (6) months.
- (c) For a single compartment baghouse controlling emissions from a process operated continuously, a failed unit and the associated process shall be shut down immediately until the failed unit has been repaired or replaced. Operations may continue only if the

event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).

- (d) For a single compartment baghouse controlling emissions from a batch process, the feed to the process shall be shut down immediately until the failed unit has been repaired or replaced. The emissions unit shall be shut down no later than the completion of the processing of the material in the line. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).
- (e) Bag failure can be indicated by a significant drop in the baghouse's pressure reading with abnormal visible emissions, by an opacity violation, or by other means such as gas temperature, flow rate, air infiltration, leaks, dust traces or triboflows.
- (f) For a cyclone controlling emissions from a process operated continuously, a failed unit and the associated process shall be shut down immediately until the failed unit has been repaired or replaced. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).
- (g) For a cyclone controlling emissions from a batch process, the feed to the process shall be shut down immediately until the failed unit has been repaired or replaced. The emissions unit shall be shut down no later than the completion of the processing of the material in the line. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).
- (h) Cyclone failure can be indicated by a significant drop in the cyclone's pressure reading with abnormal visible emissions, by an opacity violation, or by other means such as gas temperature, flow rate, air infiltration, leaks, dust traces or triboflows.

Compliance monitoring is required for the hammermilling and pellet process in order to ensure that the processes and the integral controls are operating properly at all times. The hammermilling and pellet process and the integral controls must operate properly in order for the processes to comply with 326 IAC 6-3-2, Particulate Emission Limitations for Manufacturing Processes.

## Conclusion

The operation of this animal feed mill shall be subject to the conditions of the **Minor Source Operating Permit 061-20212-00010**.

**Appendix A: Emissions Calculations  
Grain Processing Operations**

**Company Name:** Tyson Foods, Inc. - Ramsey Feed Mill  
**Address City IN Zip:** 495 Highway 64 W, Ramsey, Indiana 47116  
**MSOP Renewal:** 061-20212-00010  
**Reviewer:** CarrieAnn Paukowits  
**Application Date:** September 30, 2004

	PARTICULATE MATTER				
	Receiving (SCC 3-02-008-02)	Shipping (SCC 3-02-008-03)	Internal Handling (SCC 3-02-005-30)	Hammermilling (SCC 3-02-008-17)	Pellet Coolers (SCC 3-20-008-16)
Capacity (tons/hr)	220	60	40	60	40
Emission Factors in lb/ton					
PM	1.70E-02	3.30E-03	6.10E-02	1.20E-02	3.60E-01
PM10	2.50E-03	8.00E-04	3.40E-02	1.20E-02	1.80E-01
Potential Emissions in lb/hr					
PM	3.74	0.198	2.44	0.720	14.4
PM10	0.550	0.048	1.36	0.720	7.20
Potential Emissions in lb/day					
PM	89.8	4.75	58.6	17.3	346
PM10	13.2	1.15	32.6	17.3	173
Potential Emissions in ton/yr					
PM	16.4	0.867	10.7	3.15	63.1
PM10	2.41	0.210	5.96	3.15	31.5

Total PTE	
<b>PM</b>	<b>94.2</b>
<b>PM10</b>	<b>43.3</b>

**Methodology**

Emission factors are from AP 42 Tables 9.9.1-1 and 9.9.1-2.

The emission factors for hammermilling and pellet cooling are the emission factors after control according to AP-42.

Potential Emissions in lb/hr = Throughput (ton/hr) \* EF (lb/ton)

Potential Emissions in lb/day = PE (lb/hr) \* 24 hours/day

Potential Emissions in ton/yr = PE (lb/day) \* 365 (days/year)/2000 (lb/ton)

**Appendix A: Emission Calculations  
LPG-Propane - Industrial Boilers**

**Company Name:** Tyson Foods, Inc. - Ramsey Feed Mill  
**Address City IN Zip:** 495 Highway 64 W, Ramsey, Indiana 47116  
**MSOP Renewal:** 061-20212-00010  
**Reviewer:** CarrieAnn Paukowits  
**Application Date:** September 30, 2004

Heat Input Capacity                      Potential Throughput                      SO2 Emission factor = 0.10 x S  
MMBtu/hr                                      kgals/year                                      S = Sulfur Content =                      0.18 grains/100ft<sup>3</sup>

8.37	Boiler	801	Pollutant			
Emission Factor in lb/kgal	PM*	PM10*	SO2 (0.10S)	NOx	VOC **TOC value	CO
	0.6	0.6	0.018	19.0	0.5	3.2
Boiler Potential Emissions in tons/yr	0.240	0.240	0.007	7.61	0.200	1.28
<b>Total Potential Emissions in tons/yr</b>	<b>0.240</b>	<b>0.240</b>	<b>0.007</b>	<b>7.61</b>	<b>0.200</b>	<b>1.28</b>

\*PM emission factor is filterable PM only. PM10 emission factor is assumed to be the same as PM based on a footnote in Table 1.5-1, therefore PM10 is filterable only as well.

\*\*The VOC value given is TOC. The methane emission factor is 0.2 lb/kgal.

**Methodology**

1 gallon of propane has a heating value of 91,500 Btu (use this to convert emission factors to an energy basis for propane)

(Source - AP-42 (Supplement B 10/96) page 1.5-1)

Potential Throughput (kgals/year) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1kgal per 1000 gallon x 1 gal per 0.0915 MMBtu

Emission Factors are from AP42 (Supplement B 10/96), Table 1.5-1 (SCC #1-02-010-02)

Emission (tons/yr) = Throughput (kgals/yr) x Emission Factor (lb/kgal) / 2,000 lb/ton