



Mitchell E. Daniels, Jr.  
Governor

Thomas W. Easterly  
Commissioner

100 North Senate Avenue  
Indianapolis, Indiana 46204  
MC 61-53 IGCN 1003  
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(800) 451-6027  
www.IN.gov/idem

TO: Interested Parties / Applicant  
DATE: October 24, 2007  
RE: ADM Grain Processing / 073-24251-00021  
FROM: Nisha Sizemore  
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 03/23/06



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## Minor Source Operating Permit OFFICE OF AIR QUALITY

**ADM Grain Company  
9179 W. State Road 14  
Rensselaer, Indiana 47978**

(herein known as the Permittee) is hereby authorized to operate subject to the conditions contained herein, the source 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.

Indiana statutes from IC 13 and rules from 326 IAC, quoted in conditions in this permit, are those applicable at the time the permit was issued. The issuance or possession of this permit shall not alone constitute a defense against an alleged violation of any law, regulation or standard, except for the requirement to obtain a MSOP under 326 IAC 2-6.1.

Operation Permit No.: M073-24251-00021	
Issued by:  <i>Original signed by Matt Stuckey for</i> Nisha Sizemore, Chief Permits Branch Office of Air Quality	Issuance Date: October 24, 2007  Expiration Date: October 24, 2007

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## 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 country grain elevator.

Source Address:	9179 W. State Road 14, Rensselaer, Indiana 47978
Mailing Address:	1001 N. Brush College Road, Decatur, IL 62521
General Source Phone Number:	217-451-4677
SIC Code:	5153
County Location:	Jasper
Source Location Status:	Attainment for all criteria pollutants
Source Status:	Minor Source Operating Permit Program Minor Source, under PSD and Emission Offset Rules Minor Source, Section 112 of the Clean Air Act Not 1 of 28 Source Categories

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

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This stationary source consists of the following emission units and pollution control devices:

- (a) Five (5) truck receiving facilities, identified as EP-1, with a maximum capacity of 58,500 bu/hr, constructed in 1974 and 1993.
  - (i) Truck Receiving - House Pit, with a maximum capacity of 10,000 bu/hr, installed in 1974.
  - (ii) Truck Receiving - Penalty Box Pit, with a maximum capacity of 3,500 bu/hr, installed in 1974.
  - (iii) Truck Receiving - North Pit, with a maximum of 15,000 bu/hr, installed in 1993.
  - (iv) Truck Receiving - Middle Pit, with a maximum of 15,000 bu/hr, installed in 1993.
  - (v) Truck Receiving - South Pit, with a maximum of 15,000 bu/hr, installed in 1993.
- (b) The internal handling operation, identified as EP-2, with a maximum capacity of 1,800 bu/hr, using total enclosure as control, constructed between 1962 and 2006 consisting of legs, drags, loadouts, belts, distributors and augers.
- (c) Two (2) grain cleaners, identified as EP-3, using total enclosure as control, with a maximum capacity of 22,000 bu/hr and installed in 1993 and 1996, respectively.
  - (i) House Cleaner, with a maximum capacity of 10,000 bu/hr and installed in 1993.
  - (ii) GSI Cleaner, with a maximum capacity of 12,000 bu/hr and installed in 1996.
- (d) Two (2) grain dryers, both identified as EP-4, with a maximum heat capacity of

- 77,861,000 Btu and a maximum capacity of 6,800 bu/hr, installed in 1993 and 1988, respectively.
- (i) Zimmerman VT5046 Dryer, with a maximum heat capacity of 60,192,000 Btu and a maximum capacity of 5,000 bu/hr, installed in 1993.
  - (ii) Zimmerman VT1816 Dryer, with a maximum heat capacity of 17,669,000 Btu and a maximum capacity of 1,500 bu/hr, installed in 1988.
- (e) Twelve (12) truck/rail shipping units, identified as EP-5, with a maximum capacity of 160,000 bu/hr and installed between 1974 and 2004.
- (i) Truck Loadout Bin 5, with a maximum capacity of 15,000 bu/hr and installed in 2004.
  - (ii) Truck Loadout Bin 6, with a maximum capacity of 15,000 bu/hr and installed in 2004.
  - (iii) Truck Loadout Bin 19, with a maximum capacity of 10,000 bu/hr and installed in 1979.
  - (iv) Truck Loadout Bin 20, with a maximum capacity of 10,000 bu/hr and installed in 1979.
  - (v) Rail Loadout, with a maximum capacity of 40,000 bu/hr and installed in 1993.
  - (vi) Side Draw Loadout Bin 13, with a maximum capacity of 10,000 bu/hr and installed in 1974.
  - (vii) Two (2) Side Draw Loadout Bin 15, with a maximum capacity of 20,000 bu/hr and installed in 1978.
  - (viii) Two (2) Side Draw Loadout Bin 17, with a maximum capacity of 20,000 bu/hr and installed in 1980.
  - (ix) Side Draw Loadout Bin 21, with a maximum capacity of 10,000 bu/hr and installed in 1993.
  - (x) Side Draw Loadout Bin 25, with a maximum capacity of 10,000 bu/hr and installed in 1999.
- (f) Paved and unpaved roads, identified as EP-6. [326 IAC 6-4]
- (g) Two (2) temporary ground piles, identified as EP-7, with a maximum capacity of 700,000 bushel each.
- (h) Twenty-five (25) storage bin vents, identified as EP-8, with a maximum capacity 3,305,685 bushels.
- (i) Seven (7) concrete silos with a maximum capacity of 314,970 bushels.
  - (ii) Seventeen (17) steel bins with a maximum capacity of 2,891,662 bushels.
  - (iii) One (1) flat building with a maximum capacity of 99,053 bushels.

## **SECTION B GENERAL CONDITIONS**

### **B.1 Definitions [326 IAC 2-1.1-1]**

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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.2 Permit Term [326 IAC 2-6.1-7(a)][326 IAC 2-1.1-9.5][IC 13-15-3-6(a)]**

- 
- (a) This permit, M073-24251-00021, 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, modifications, or amendments of this permit do not affect the expiration date of this permit.
- (b) If IDEM, OAQ, upon receiving a timely and complete renewal permit application, fails to issue or deny the permit renewal prior to the expiration date of this permit, this existing permit shall not expire and all terms and conditions shall continue in effect, until the renewal permit has been issued or denied.

### **B.3 Term of Conditions [326 IAC 2-1.1-9.5]**

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Notwithstanding the permit term of a permit to construct, a permit to operate, or a permit modification, any condition established in a permit issued pursuant to a permitting program approved in the state implementation plan shall remain in effect until:

- (a) the condition is modified in a subsequent permit action pursuant to Title I of the Clean Air Act; or
- (b) the emission unit to which the condition pertains permanently ceases operation.

### **B.4 Enforceability**

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Unless otherwise stated, all terms and conditions in this permit, including any provisions designed to limit the source's potential to emit, are enforceable by IDEM, the United States Environmental Protection Agency (U.S. EPA) and by citizens in accordance with the Clean Air Act.

### **B.5 Severability**

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The provisions of this permit are severable; a determination that any portion of this permit is invalid shall not affect the validity of the remainder of the permit.

### **B.6 Property Rights or Exclusive Privilege**

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

### **B.7 Duty to Provide Information**

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- (a) The Permittee shall furnish to IDEM, OAQ, within a reasonable time, any information that IDEM, OAQ may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. The submittal by the Permittee does require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1). Upon request, the Permittee shall also furnish to IDEM, OAQ copies of records required to be kept by this permit.
- (b) For information furnished by the Permittee to IDEM, OAQ, the Permittee may include a claim of confidentiality in accordance with 326 IAC 17.1. When furnishing copies of requested records directly to U. S. EPA, the Permittee may assert a claim of confidentiality in accordance with 40 CFR 2, Subpart B.

## B.8 Certification

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- (a) Where specifically designated by this permit or required by an applicable requirement, any application form, report, or compliance certification submitted shall contain certification by an "authorized individual" of truth, accuracy, and completeness. This certification shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.
- (b) One (1) certification shall be included, using the attached Certification Form, with each submittal requiring certification. One (1) certification may cover multiple forms in one (1) submittal.
- (c) An "authorized individual" is defined at 326 IAC 2-1.1-1(1).

## B.9 Annual Notification [326 IAC 2-6.1-5(a)(5)]

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- (a) An annual notification shall be submitted by an authorized individual 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) The annual notice shall be submitted in the format attached no later than March 1 of each year to:  
  
Indiana Department of Environmental Management  
Compliance Branch, Office of Air Quality  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, IN 46204-2251
- (c) 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.10 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 prepare and maintain Preventive Maintenance Plans (PMPs) within ninety (90) days after issuance of this permit, including the following information on each facility:
  - (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.

If, due to circumstances beyond the Permittee's control, the PMPs cannot be prepared and maintained within the above time frame, the Permittee may extend the date an additional ninety (90) days provided the Permittee notifies:

Indiana Department of Environmental Management  
Compliance Branch, Office of Air Quality  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251

The PMP extension notification does not require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (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 by 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.11 Prior Permits Superseded [326 IAC 2-1.1-9.5]**

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- (a) All terms and conditions of permits established prior to M073-24251-00021 and issued pursuant to permitting programs approved into the state implementation plan have been either:
  - (1) incorporated as originally stated,
  - (2) revised, or
  - (3) deleted.
- (b) All previous registrations and permits are superseded by this permit.

**B.12 Termination of Right to Operate [326 IAC 2-6.1-7(a)]**

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The Permittee's right to operate this source terminates with the expiration of this permit unless a timely and complete renewal application is submitted at least ninety (90) days prior to the date of expiration of the source's existing permit, consistent with 326 IAC 2-6.1-7.

**B.13 Permit Renewal [326 IAC 2-6.1-7]**

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- (a) The application for renewal shall be submitted using the application form or forms prescribed by IDEM, OAQ and shall include the information specified in 326 IAC 2-6.1-7. Such information shall be included in the application for each emission unit at this source. The renewal application does require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

Request for renewal shall be submitted to:

Indiana Department of Environmental Management  
Permits Branch, Office of Air Quality  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251

- (b) A timely renewal application is one that is:
  - (1) Submitted at least ninety (90) days prior to the date of the expiration of this permit; and
  - (2) 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) If the Permittee submits a timely and complete application for renewal of this permit, the source's failure to have a permit is not a violation of 326 IAC 2-6.1 until IDEM, OAQ takes final action on the renewal application, except that this protection shall cease to apply if, subsequent to the completeness determination, the Permittee fails to submit by the deadline specified in writing by IDEM, OAQ any additional information identified as being needed to process the application.

**B.14 Permit Amendment or Revision [326 IAC 2-5.1-3(e)(3)][326 IAC 2-6.1-6]**

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- (a) Permit amendments and revisions are governed by the requirements of 326 IAC 2-6.1-6 whenever the Permittee seeks to amend or modify this permit.

- (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  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251

Any such application shall be certified by an "authorized individual" as defined by 326 IAC 2-1.1-1(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)]

**B.15 Source Modification Requirement**

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A modification, construction, or reconstruction is governed by the requirements of 326 IAC 2.

**B.16 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]**

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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 the conditions of this permit;
- (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 facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit;

- (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.17 Transfer of Ownership or Operational Control [326 IAC 2-6.1-6]**

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- (a) The Permittee must comply with the requirements of 326 IAC 2-6.1-6 whenever the Permittee seeks to change the ownership or operational control of the source and no other change in the permit is necessary.
- (b) Any application requesting a change in the ownership or operational control of the source shall contain a written agreement containing a specific date for transfer of permit responsibility, coverage and liability between the current and new Permittee. The application shall be submitted to:  
  
Indiana Department of Environmental Management  
Permits Branch, Office of Air Quality  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251  
  
The application which shall be submitted by the Permittee does require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (c) The Permittee may implement notice-only changes addressed in the request for a notice-only change immediately upon submittal of the request. [326 IAC 2-6.1-6(d)(3)]

**B.18 Annual Fee Payment [326 IAC 2-1.1-7]**

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- (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.19 Credible Evidence [326 IAC 1-1-6]**

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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

### Emission Limitations and Standards [326 IAC 2-6.1-5(a)(1)]

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 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 nonoverlapping integrated averages for a continuous opacity monitor) in a six (6) hour period.

C.4 Open Burning [326 IAC 4-1] [IC 13-17-9]

The Permittee shall not open burn any material except as provided in 326 IAC 4-1-3, 326 IAC 4-1-4 or 326 IAC 4-1-6. The previous sentence notwithstanding, the Permittee may open burn in accordance with an open burning approval issued by the Commissioner under 326 IAC 4-1-4.1.

C.5 Incineration [326 IAC 4-2] [326 IAC 9-1-2]

The Permittee shall not operate an incinerator or incinerate any waste or refuse except as provided in 326 IAC 4-2 and 326 IAC 9-1-2.

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

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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.7 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  
MC 61-52 IGCN 1003  
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 2-1.1-1(1).

- (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 [326 IAC 2-6.1-5(a)(2)]**

#### **C.8 Performance Testing [326 IAC 3-6]**

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- (a) 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  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251

no later than thirty-five (35) days prior to the intended test date. The protocol submitted by the Permittee does not require certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (b) The Permittee shall notify IDEM, OAQ of the actual test date at least fourteen (14) days prior to the actual test date. The notification submitted by the Permittee does not require certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (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 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.9 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 [326 IAC 2-6.1-5(a)(2)]**

#### **C.10 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.11 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.12 Instrument Specifications [326 IAC 2-1.1-11]**

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- (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.

**Corrective Actions and Response Steps**

**C.13 Response to Excursions or Exceedances**

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- (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; and/or
  - (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.14 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 facility 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 retesting in one hundred twenty (120) days is not practicable, IDEM, OAQ may extend the retesting deadline.
- (c) IDEM, OAQ reserves the authority to take any actions allowed under law in response to noncompliant stack tests.

The response action documents submitted pursuant to this condition do require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

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

**C.15 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.16 General Record Keeping Requirements [326 IAC 2-6.1-5]

- (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 within ninety (90) days of permit issuance.

C.17 General Reporting Requirements [326 IAC 2-1.1-11] [326 IAC 2-6.1-2] [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  
MC 61-53 IGCN 1003  
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, all reports required in Section D of this permit shall be submitted within thirty (30) days of the end of the reporting period. All reports do 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 UNIT OPERATION CONDITIONS

### Emissions Unit Description:

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

- (a) Five (5) truck receiving facilities, identified as EP-1, with a maximum capacity of 58,500 bu/hr, constructed in 1974 and 1993.
  - (i) Truck Receiving - House Pit, with a maximum capacity of 10,000 bu/hr, installed in 1974.
  - (ii) Truck Receiving - Penalty Box Pit, with a maximum capacity of 3,500 bu/hr, installed in 1974.
  - (iii) Truck Receiving - North Pit, with a maximum of 15,000 bu/hr, installed in 1993.
  - (iv) Truck Receiving - Middle Pit, with a maximum of 15,000 bu/hr, installed in 1993.
  - (v) Truck Receiving - South Pit, with a maximum of 15,000 bu/hr, installed in 1993.
- (b) The internal handling operation, identified as EP-2, with a maximum capacity of 1,800 bu/hr, using total enclosure as control, constructed between 1962 and 2006 consisting of legs, dragouts, loadouts, belts, distributors and augers.
- (c) Two (2) grain cleaners, identified as EP-3, using total enclosure as control, with a maximum capacity of 22,000 bu/hr and installed in 1993 and 1996, respectively.
  - (i) House Cleaner, with a maximum capacity of 10,000 bu/hr and installed in 1993.
  - (ii) GSI Cleaner, with a maximum capacity of 12,000 bu/hr and installed in 1996.
- (d) Two (2) grain dryers, both identified as EP-4, with a maximum heat capacity of 77,861,000 Btu and a maximum capacity of 6,800 bu/hr, installed in 1993 and 1988, respectively.
  - (i) Zimmerman VT5046 Dryer, with a maximum heat capacity of 60,192,000 Btu and a maximum capacity of 5,000 bu/hr, installed in 1993.
  - (ii) Zimmerman VT1816 Dryer, with a maximum heat capacity of 17,669,000 Btu and a maximum capacity of 1,500 bu/hr, installed in 1988.
- (e) Twelve (12) truck/rail shipping units, identified as EP-5, with a maximum capacity of 160,000 bu/hr and installed between 1974 and 2004.
  - (i) Truck Loadout Bin 5, with a maximum capacity of 15,000 bu/hr and installed in 2004.
  - (ii) Truck Loadout Bin 6, with a maximum capacity of 15,000 bu/hr and installed in 2004.

- (iii) Truck Loadout Bin 19, with a maximum capacity of 10,000 bu/hr and installed in 1979.
- (iv) Truck Loadout Bin 20, with a maximum capacity of 10,000 bu/hr and installed in 1979.
- (v) Rail Loadout, with a maximum capacity of 40,000 bu/hr and installed in 1993.
- (vi) Side Draw Loadout Bin 13, with a maximum capacity of 10,000 bu/hr and installed in 1974.
- (vii) Two (2) Side Draw Loadout Bin 15, with a maximum capacity of 20,000 bu/hr and installed in 1978.
- (viii) Two (2) Side Draw Loadout Bin 17, with a maximum capacity of 20,000 bu/hr and installed in 1980.
- (ix) Side Draw Loadout Bin 21, with a maximum capacity of 10,000 bu/hr and installed in 1993.
- (x) Side Draw Loadout Bin 25, with a maximum capacity of 10,000 bu/hr and installed in 1999.
- (f) Paved and unpaved roads, identified as EP-6. [326 IAC 6-4]
- (g) Two (2) temporary ground piles, identified as EP-7, with a maximum capacity of 700,000 bushel each.
- (h) Twenty-five (25) storage bin vents, identified as EP-8, with a maximum capacity 3,305,685 bushels.
  - (i) Seven (7) concrete silos with a maximum capacity of 314,970 bushels.
  - (ii) Seventeen (17) steel bins with a maximum capacity of 2,891,662 bushels.
  - (iii) One (1) flat building with a maximum capacity of 99,053 bushels.

**Emission Limitations and Standards [326 IAC 2-6.1-5(a)(1)]**

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

Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), the allowable particulate emission rate from each process shall be limited by the following:

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:

$$E = 55.0 P^{0.11} - 40$$

where E = rate of emission in pounds per hour and  
P = process weight rate in tons per hour

Emissions Unit	326 IAC 6-3 Limit (pounds per hour)
Truck Receiving - House Pit	63.00
Truck Receiving -Penalty Box	51.77
Truck Receiving - North Pit, Middle Pit and South Pit	67.70
Internal Handling Operation	43.60
House Cleaner	63.00
GSI Cleaner	65.08
Grain Dryers	55.44
Truck Loadout Bins 5 and 6	67.70
Truck Loadout Bins 19 and 20	63.00
Rail Loadout	79.96
Side Draw Loadout Bins 13, 15, 17, 21 and 25	63.00
Two (2) Temporary Ground Piles	124.36
Seven (7) Concrete Silos	110.54
Seventeen (17) Steel Bins	152.12
Flat Building	92.55

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 this facility.

**New Source Performance Standards (NSPS) Requirements**

D.1.3 General Provisions Relating to NSPS [326 IAC 12-1][40 CFR 60, SubpartA]

The provisions of 40 CFR 60, Subpart A - General Provisions, which are incorporated as 326 IAC 12-1, apply to the internal handling, grain cleaner, storage bin vents except when otherwise specified in 40 CFR 60, Subpart DD.

D.1.4 New Source Performance Standards (NSPS) for Grain Elevators [40 CFR 60, Subpart DD]

Pursuant to 40 CFR 60, Subpart DD, the internal handling, grain cleaner, and storage bin vents are subject to this rule because they are located at a grain elevator with a storage capacity greater than 2.5 million bushels. Therefore, these facilities shall comply with the following provisions:

**§ 60.300 Applicability and designation of affected facility**

(a) The provisions of this subpart apply to each affected facility at any grain terminal elevator or any grain storage elevator, except as provided under §60.304(b). The affected facilities are each truck unloading station, truck loading station, barge and ship unloading station, barge and ship loading station, railcar loading station, railcar unloading station, grain dryer, and all grain handling operations.

(b) Any facility under paragraph (a) of this section which commences construction, modification, or reconstruction after August 3, 1978, is subject to the requirements of this part.

**§ 60.301 Definitions**

As used in this subpart, all terms not defined herein shall have the meaning given them in the Act and in subpart A of this part.

(a) Grain means corn, wheat, sorghum, rice, rye, oats, barley, and soybeans.

(b) Grain elevator means any plant or installation at which grain is unloaded, handled, cleaned, dried, stored, or loaded.

(c) Grain terminal elevator means any grain elevator which has a permanent storage capacity of more than 88,100 m<sup>3</sup> (ca. 2.5 million U.S. bushels), except those located at animal food manufacturers, pet food manufacturers, cereal manufacturers, breweries, and livestock feedlots.

(d) Permanent storage capacity means grain storage capacity which is inside a building, bin, or silo.

(e) Railcar means railroad hopper car or boxcar.

(f) Grain storage elevator means any grain elevator located at any wheat flour mill, wet corn mill, dry corn mill (human consumption), rice mill, or soybean oil extraction plant which has a permanent grain storage capacity of 35,200 m<sup>3</sup> (ca. 1 million bushels).

(g) Process emission means the particulate matter which is collected by a capture system.

(h) Fugitive emission means the particulate matter which is not collected by a capture system and is released directly into the atmosphere from an affected facility at a grain elevator.

(i) Capture system means the equipment such as sheds, hoods, ducts, fans, dampers, etc. used to collect particulate matter generated by an affected facility at a grain elevator.

(j) Grain unloading station means that portion of a grain elevator where the grain is transferred from a truck, railcar, barge, or ship to a receiving hopper.

(k) Grain loading station means that portion of a grain elevator where the grain is transferred from the elevator to a truck, railcar, barge, or ship.

(l) Grain handling operations include bucket elevators or legs (excluding legs used to unload barges or ships), scale hoppers and surge bins (garners), turn heads, scalpers, cleaners, trippers, and the headhouse and other such structures.

(m) Column dryer means any equipment used to reduce the moisture content of grain in which the grain flows from the top to the bottom in one or more continuous packed columns between two perforated metal sheets.

(n) Rack dryer means any equipment used to reduce the moisture content of grain in which the grain flows from the top to the bottom in a cascading flow around rows of baffles (racks).

(o) Unloading leg means a device which includes a bucket-type elevator which is used to remove grain from a barge or ship.

**§ 60.302 Standard for particulate matter**

(a) On and after the 60th day of achieving the maximum production rate at which the affected facility will be operated, but no later than 180 days after initial startup, no owner or operator subject to the provisions of this subpart shall cause to be discharged into the atmosphere any gases which exhibit greater than 0 percent opacity from any:

- (1) Column dryer with column plate perforation exceeding 2.4 mm diameter (ca. 0.094 inch).
- (2) Rack dryer in which exhaust gases pass through a screen filter coarser than 50 mesh.

(b) On and after the date on which the performance test required to be conducted by §60.8 is completed, no owner or operator subject to the provisions of this subpart shall cause to be discharged into the atmosphere from any affected facility except a grain dryer any process emission which:

- (1) Contains particulate matter in excess of 0.023 g/dscm (ca. 0.01 gr/dscf).
- (2) Exhibits greater than 0 percent opacity.

(c) On and after the 60th day of achieving the maximum production rate at which the affected facility will be operated, but no later than 180 days after initial startup, no owner or operator subject to the provisions of this subpart shall cause to be discharged into the atmosphere any fugitive emission from:

- (1) Any individual truck unloading station, railcar unloading station, or railcar loading station, which exhibits greater than 5 percent opacity.
- (2) Any grain handling operation which exhibits greater than 0 percent opacity.
- (3) Any truck loading station which exhibits greater than 10 percent opacity.
- (4) Any barge or ship loading station which exhibits greater than 20 percent opacity.

(d) The owner or operator of any barge or ship unloading station shall operate as follows:

(1) The unloading leg shall be enclosed from the top (including the receiving hopper) to the center line of the bottom pulley and ventilation to a control device shall be maintained on both sides of the leg and the grain receiving hopper.

(2) The total rate of air ventilated shall be at least 32.1 actual cubic meters per cubic meter of grain handling capacity (ca. 40 ft<sup>3</sup>/bu).

(3) Rather than meet the requirements of paragraphs (d)(1) and (2) of this section the owner or operator may use other methods of emission control if it is demonstrated to the Administrator's satisfaction that they would reduce emissions of particulate matter to the same level or less.

### **§ 60.303 Test methods and procedures**

(a) In conducting the performance tests required in §60.8, the owner or operator shall use as reference methods and procedures the test methods in appendix A of this part or other methods and procedures as specified in this section, except as provided in §60.8(b). Acceptable alternative methods and procedures are given in paragraph (c) of this section.

(b) The owner or operator shall determine compliance with the particulate matter standards in §60.302 as follows:

(1) Method 5 shall be used to determine the particulate matter concentration and the volumetric flow rate of the effluent gas. The sampling time and sample volume for each run shall be at least 60 minutes and 1.70 dscm (60 dscf). The probe and filter holder shall be operated without heaters.

(2) Method 2 shall be used to determine the ventilation volumetric flow rate.

(3) Method 9 and the procedures in §60.11 shall be used to determine opacity.

(c) The owner or operator may use the following as alternatives to the reference methods and procedures specified in this section:

(1) For Method 5, Method 17 may be used.

#### **§ 60.304 Modifications**

(a) The factor 6.5 shall be used in place of “annual asset guidelines repair allowance percentage,” to determine whether a capital expenditure as defined by §60.2 has been made to an existing facility.

(b) The following physical changes or changes in the method of operation shall not by themselves be considered a modification of any existing facility:

(1) The addition of gravity loadout spouts to existing grain storage or grain transfer bins.

(2) The installation of automatic grain weighing scales.

(3) Replacement of motor and drive units driving existing grain handling equipment.

(4) The installation of permanent storage capacity with no increase in hourly grain handling capacity.

**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>	ADM Grain Company
<b>Address:</b>	9179 W. State Road 14
<b>City:</b>	Rensselaer, Indiana 47978
<b>Phone #:</b>	217-451-4677
<b>MSOP #:</b>	M073-24251-00021

I hereby certify that ADM Grain Company is :

still in operation.

no longer in operation.

I hereby certify that ADM Grain Company is :

in compliance with the requirements of MSOP M073-24251-00021.

not in compliance with the requirements of MSOP M073-24251-00021.

<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 - 317 233-6865**

**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

Addendum to the Technical Support Document for a Minor Source Operating Permit

**Source Background and Description**

<b>Source Name:</b>	<b>ADM Grain Company</b>
<b>Source Location:</b>	<b>9179 W. State Road 14, Rensselaer, IN 47978</b>
<b>County:</b>	<b>Jasper</b>
<b>SIC Code:</b>	<b>5153</b>
<b>Permit Renewal No.:</b>	<b>M073-24251-00021</b>
<b>Permit Reviewer:</b>	<b>Anne-Marie Hart</b>

On July August 15, 2007, the Office of Air Quality (OAQ) sent a Public Notice to the Rensselaer Republican stating that ADM Grain had applied for a Minor Source Operating Permit to operate a country grain elevator. The notice also stated that OAQ proposed to issue a Minor Source Operating Permit for this operation and provided information on how the public could review the proposed Minor Source Operating Permit and other documentation. Finally, the notice informed interested parties that there was a period of thirty (30) days to provide comments on whether or not this Minor Source Operating Permit should be issued as proposed.

On August 22, 2007 and August 24, 2007, on behalf of ADM Grain, Beth York submitted comments on the proposed Minor Source Operating Permit. The comments are as follows: The permit language, if changed, has deleted language as ~~strikeouts~~ and new language **bolded**.

**Comment 1**

Page 4 letter (b) of the permit states the maximum capacity of the internal handling equipment is 1,800 bu/hr. The maximum capacity should be 457,000 bu/hr.

**Response 1**

IDEM disagrees that the maximum capacity should be 457,000 bu/hr. The stated internal handling equipment consists of legs, drags, loadouts, belts, distributors and augers. The equipment capacity is dependent on the lowest maximum capacity of all parts creating a bottle-neck in the internal handling process. With the lowest maximum capacity of 1,800 bu/hr, the maximum capacity of the entire internal handling process is 1,800 bu/hr.

**Comment 2**

On page 5 letter (g) of the permit, the two temporary ground piles listed have a combined capacity of 1,400,000 bushel.

**Response 2**

Changes were made to A.2 and D.1 unit descriptions in the permit. The capacities of the two listed ground piles have been changed to reflect the correct capacity as follows:

- (g) Two (2) temporary ground piles, identified as EP-7, with a maximum capacity of ~~2,800,000~~ **700,000 bushel each**.

The calculations in Appendix A of the TSD for the temporary ground storage piles are based on the correct combined capacity of 1,400,000 bushel. However, the particulate limit associated with 326 IAC 6-3-2 was based on the incorrect combined capacity of 2,800,000 bushel. Because of

this capacity revision, the particulate limit for the temporary storage piles has been changed to reflect the correct capacity as follows:

- (l) Uncontrolled particulate emission rate for **each of** the two (2) temporary ground piles is ~~137.38~~ **124.36** pounds per hour. The emission units do not need a control in order to comply with this limit and are able to comply with 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes).

Condition D.1.1 of the permit has been changed to reflect the correct capacity of the temporary ground storage piles.

### Comment 3

Page 5 letter (e) states there are Ten (10) truck/rail receiving units. Receiving should be changed to shipping as they are loadout spouts. Further, the quantity should be changed from ten (10) to twelve (12) as two (2) side draws exist on units identified as Bin 15 and Bin 17.

### Response 3

Changes were made to A.2 and D.1 unit descriptions in the permit. The unit description has been changed as follows:

- (e) ~~Ten (10)~~ **Twelve (12)** truck/rail ~~receiving~~ **shipping** units, identified as EP-5, with a maximum capacity of 160,000 bu/hr and installed between 1974 and 2004.

### Comment 4

The units of the maximum capacities of the emission units described on pages 5 and 6 letter (d)(i) and (ii) are incorrect. The total capacity is 77,861,000 Btu, not bushel total. The bushel total for (i) is 5000 bushel per hour with a heat capacity of 60,192,000 Btu. The bushel total for (ii) is 1500 bushel per hour with 17,669,000 Btu a heat capacity of 17,669,000 Btu. Therefore, the total capacity of the two units is 6500 bushel per hour.

### Response 4

Changes were made to A.2 and D.1 unit descriptions in the permit. The unit description has been changed as follows:

- (d) Two (2) grain dryers, both identified as EP-4, with a maximum **heat** capacity of 77,861,000 ~~bu/hr~~ **Btu and 6,500 bu/hr**, and installed in 1993 and 1988, respectively.
  - (i) Zimmerman VT5046 Dryer, with a maximum **heat** capacity of 60,192,000 ~~bu/hr~~ **Btu and 5,000 bu/hr**, and installed in 1993.
  - (ii) Zimmerman VT1816 Dryer, with a maximum **heat** capacity of 17,669,000 ~~bu/hr~~ **Btu and 1,500 bu/hr**, and installed in 1988.

After further review, IDEM OAQ has made the following changes:

**Change 1:**

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

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Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), the allowable particulate emission rate from each process shall be limited by the following:

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:

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

- ~~(a) Uncontrolled particulate emission rate for the Truck Receiving - House Pit is 63 pounds per hour. This emission unit does not need a control in order to comply with this limit and is able to comply with 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes).~~
- ~~(b) Uncontrolled particulate emission rate for the Truck Receiving - Penalty Box Pit is 51.77 pounds per hour. This emission unit does not need a control in order to comply with this limit and is able to comply with 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes).~~
- ~~(c) Uncontrolled particulate emission rate for the Truck Receiving - North Pit, Middle Pit, and South Pit is 67.70 pounds per hour. These units do not need a control in order to comply with this limit and is able to comply with 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes).~~
- ~~(d) Uncontrolled particulate emission rate for the Internal Handling operation, including legs, drags, distributors, belts and augers is 43.60 pounds per hour. This emission unit does not need a control in order to comply with this limit and is able to comply with 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes).~~
- ~~(e) Uncontrolled particulate emission rate for the House Cleaner is 63 pounds per hour. This emission unit does not need a control in order to comply with this limit and is able to comply with 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes).~~
- ~~(f) Uncontrolled particulate emission rate for the GSI Cleaner is 65.08 pounds per hour. This emission unit does not need a control in order to comply with this limit and is able to comply with 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes).~~
- ~~(g) Uncontrolled particulate emission rate for the grain dryers is 55.44 pounds per hour. This emission unit does not need a control in order to comply with this limit and is able to comply with 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes).~~
- ~~(h) Uncontrolled particulate emission rate for the Truck Loadout Bins 5 and 6 is 67.70 pounds per hour. This emission unit does not need a control in order to comply with this limit and is able to comply with 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes).~~
- ~~(i) Uncontrolled particulate emission rate for the Truck Load Bins 19 and 20 is 63 pounds per hour. The emission units do not need a control in order to comply with this limit and is able to comply with 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes).~~
- ~~(j) Uncontrolled particulate emission rate for the Rail Loadout is 79.96 pounds per hour. This emission unit does not need a control in order to comply with this limit and is able to comply with 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes).~~

- (k) ~~Uncontrolled particulate emission rate for Side Draw Loadout Bins 13, 15, 17, 21 and 25 is 63 pounds per hour. Th emission units do not need a control in order to comply with this limit and is able to comply with 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes).~~
- (l) ~~Uncontrolled particulate emission rate for each of the two (2) temporary ground piles is 124.36 pounds per hour. Th emission units do not need a control in order to comply with this limit and is able to comply with 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes).~~
- (m) ~~Uncontrolled particulate emission rate for the seven (7) concrete silos is 110.54 pounds per hour. The emission units do not need a control in order to comply with this limit and is able to comply with 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes).~~
- (n) ~~Uncontrolled particulate emission rate for the seventeen (17) steel bins is 152.12 pounds per hour. The emission units do not need a control in order to comply with this limit and is able to comply with 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes).~~
- (o) ~~Uncontrolled particulate emission rate for the flat building is 92.55 pounds per hour. This emission unit does not need a control in order to comply with this limit and is able to comply with 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes).~~

<b>Emissions Unit</b>	<b>326 IAC 6-3 Limit (pounds per hour)</b>
<b>Truck Receiving - House Pit</b>	<b>63.00</b>
<b>Truck Receiving -Penalty Box</b>	<b>51.77</b>
<b>Truck Receiving - North Pit, Middle Pit and South Pit</b>	<b>67.70</b>
<b>Internal Handling Operation</b>	<b>43.60</b>
<b>House Cleaner</b>	<b>63.00</b>
<b>GSI Cleaner</b>	<b>65.08</b>
<b>Grain Dryers</b>	<b>55.44</b>
<b>Truck Loadout Bins 5 and 6</b>	<b>67.70</b>
<b>Truck Loadout Bins 19 and 20</b>	<b>63.00</b>
<b>Rail Loadout</b>	<b>79.96</b>
<b>Side Draw Loadout Bins 13, 15, 17, 21 and 25</b>	<b>63.00</b>
<b>Two (2) Temporary Ground Piles</b>	<b>124.36</b>
<b>Seven (7) Concrete Silos</b>	<b>110.54</b>
<b>Seventeen (17) Steel Bins</b>	<b>152.12</b>
<b>Flat Building</b>	<b>92.55</b>

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

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

**Source Background and Description**

<b>Source Name:</b>	<b>ADM Grain Company</b>
<b>Source Location:</b>	<b>9179 W. State Road 14, Rensselaer, IN 47978</b>
<b>County:</b>	<b>Jasper</b>
<b>SIC Code:</b>	<b>5153</b>
<b>Permit Renewal No.:</b>	<b>M073-24251-00021</b>
<b>Permit Reviewer:</b>	<b>Anne-Marie Hart</b>

The Office of Air Quality (OAQ) has reviewed the minor source operating permit (MSOP) application from ADM Grain Company relating to the operation of a country grain elevator.

**History**

On January 25, 2007, ADM Grain Company submitted applications to IDEM OAQ requesting to transition its Permit by Rule to a Minor Source Operating Permit (MSOP) due to increased production. ADM Grain Company was issued a Permit by Rule (Permit No. 073-16564-00021) pursuant to 326 IAC 2-11-3(a) (2) on January 22, 2003.

**Permitted Emission Units and Pollution Control Equipment**

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

- (a) Five (5) truck receiving facilities, identified as EP-1, with a maximum capacity of 58,500 bu/hr, constructed in 1974 and 1993.
  - (i) Truck Receiving - House Pit, with a maximum capacity of 10,000 bu/hr, installed in 1974.
  - (ii) Truck Receiving - Penalty Box Pit, with a maximum capacity of 3,500 bu/hr, installed in 1974.
  - (iii) Truck Receiving - North Pit, with a maximum of 15,000 bu/hr, installed in 1993.
  - (iv) Truck Receiving - Middle Pit, with a maximum of 15,000 bu/hr, installed in 1993.
  - (v) Truck Receiving - South Pit, with a maximum of 15,000 bu/hr, installed in 1993.
- (b) The internal handling operation, identified as EP-2, with a maximum capacity of 1,800 bu/hr, using total enclosure as control, constructed between 1962 and 2006 consisting of legs, drags, loadouts, belts, distributors and augers.
- (c) Two (2) grain cleaners, identified as EP-3, using total enclosure as control, with a maximum capacity of 22,000 bu/hr and installed in 1993 and 1996, respectively.

- (i) House Cleaner, with a maximum capacity of 10,000 bu/hr and installed in 1993.
- (ii) GSI Cleaner, with a maximum capacity of 12,000 bu/hr and installed in 1996.
- (d) Two (2) grain dryers, both identified as EP-4, with a maximum capacity of 77,861,000 bu/hr and installed in 1993 and 1988, respectively.
  - (i) Zimmerman VT5046 Dryer, with a maximum capacity of 60,192,000 bu/hr and installed in 1993.
  - (ii) Zimmerman VT1816 Dryer, with a maximum capacity of 17,669,000 bu/hr and installed in 1988.
- (e) Ten (10) truck/rail receiving units, identified as EP-5, with a maximum capacity of 160,000 bu/hr and installed between 1974 and 2004.
  - (i) Truck Loadout Bin 5, with a maximum capacity of 15,000 bu/hr and installed in 2004.
  - (ii) Truck Loadout Bin 6, with a maximum capacity of 15,000 bu/hr and installed in 2004.
  - (iii) Truck Loadout Bin 19, with a maximum capacity of 10,000 bu/hr and installed in 1979.
  - (iv) Truck Loadout Bin 20, with a maximum capacity of 10,000 bu/hr and installed in 1979.
  - (v) Rail Loadout, with a maximum capacity of 40,000 bu/hr and installed in 1993.
  - (vi) Side Draw Loadout Bin 13, with a maximum capacity of 10,000 bu/hr and installed in 1974.
  - (vii) Two (2) Side Draw Loadout Bin 15, with a maximum capacity of 20,000 bu/hr and installed in 1978.
  - (viii) Two (2) Side Draw Loadout Bin 17, with a maximum capacity of 20,000 bu/hr and installed in 1980.
  - (ix) Side Draw Loadout Bin 21, with a maximum capacity of 10,000 bu/hr and installed in 1993.
  - (x) Side Draw Loadout Bin 25, with a maximum capacity of 10,000 bu/hr and installed in 1999.
- (f) Paved and unpaved roads, identified as EP-6. [326 IAC 6-4]
- (g) Two (2) temporary ground piles, identified as EP-7, with a maximum capacity of 2,800,000 bushels.
- (h) Twenty-five (25) storage bin vents, identified as EP-8, with a maximum capacity 3,305,685 bushels.
  - (i) Seven (7) concrete silos with a maximum capacity of 314,970 bushels.

- (ii) Seventeen (17) steel bins with a maximum capacity of 2,891,662 bushels.
- (iii) One (1) flat building with a maximum capacity of 99,053 bushels.

### Existing Approvals

The source has been operating under the previous approvals including:

- (a) Permit by Rule No. 073-16564-00021 issued on January 22, 2003.

All terms and conditions of previous permits issued pursuant to permitting programs approved into the state implementation plan have been either incorporated as originally stated, revised, or deleted by this permit. All previous registrations and permits are superseded by this permit.

### Enforcement Issue

There are no enforcement actions pending.

### Emission Calculations

See Appendix A of this document for detailed emission calculations.

### County Attainment Status

The source is located in Jasper County

Pollutant	Status
PM <sub>10</sub>	attainment
PM <sub>2.5</sub>	attainment
SO <sub>2</sub>	attainment
NOx	attainment
8-hour Ozone	attainment
CO	attainment
Lead	attainment

- (a) Jasper County has been classified as 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. See the State Rule Applicability – Entire Source section.
- (b) Volatile organic compounds (VOC) and Nitrogen Oxides (NOx) 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 emissions and NOx emissions are considered when evaluating the rule applicability relating to ozone. Jasper County has been designated as attainment or unclassifiable for ozone. Therefore, VOC emissions and NOx emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2. See the State Rule Applicability – Entire Source section.
- (c) Jasper County has been classified as attainment or unclassifiable in Indiana for PM<sub>10</sub>, SO<sub>2</sub>, CO and Lead. Therefore, these emissions were reviewed pursuant to the

requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2. See the State Rule Applicability – Entire Source section.

- (d) On October 25, 2006, the Indiana Air Pollution Control Board finalized a rule revision to 326 IAC 1-4-1 revoking the one-hour ozone standard in Indiana.
- (e) **Fugitive Emissions**  
 Since this type of operation is not one of the twenty-eight (28) listed source categories under 326 IAC 2-2 or 326 IAC 2-3 and since there are no applicable New Source Performance Standards that were in effect on August 7, 1980, the fugitive emissions are not counted toward determination of PSD or Emission Offset applicability.

**Unrestricted Potential Emissions**

This table reflects the unrestricted potential emissions of the source.

Pollutant	tons/year
PM	229.88
PM-10	72.85
SO <sub>2</sub>	0.13
VOC	0.66
CO	4.21
NO <sub>x</sub>	24.99

- (a) The potential to emit (as defined in 326 IAC 2-7-1(29)) of all criteria pollutants is less than 100 tons per year. The source is not subject to the provisions of 326 IAC 2-7. Therefore, the source will be issued an MSOP
- (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/or 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.

Fugitive Emissions

Since this type of operation is not one of the twenty-eight (28) listed source categories under 326 IAC 2-2 or 326 IAC 2-3, fugitive emissions are not counted toward the determination of PSD and Emission Offset applicability

**Actual Emissions**

No previous emission data has been received from the source.

**Potential to Emit After Issuance**

The table below summarizes the potential to emit, reflecting all limits of the emission units. Any control equipment is considered enforceable only after issuance of this MSOP and only to the extent that the effect of the control equipment is made practically enforceable in the permit.

Process/emission unit	Potential To Emit (tons/year)						
	PM	PM-10	SO <sub>2</sub>	VOC	CO	NO <sub>x</sub>	HAPs
Grain Receiving	32.25	10.02	-	-	-	-	-
Headhouse and Internal Handling	0.37	0.20	-	-	-	-	-
Rail or Truck Shipping	25.80	8.70	-	-	-	-	-

Process/emission unit	Potential To Emit (tons/year)						
	PM	PM-10	SO <sub>2</sub>	VOC	CO	NO <sub>x</sub>	HAPs
Grain Drying	66.00	16.50	-	-	-	-	-
Propane Combustion in Grain Dryers	0.79	0.79	0.13	0.66	4.21	24.99	-
Grain Cleaning	0.23	0.06	-	-	-	-	-
Pile Conveying	1.24	0.69	-	-	-	-	-
Pile Loading	0.71	0.16					
Storage Bin Vents	7.50	1.89	-	-	-	-	-
<b>Total Emissions</b>	<b>171.37</b>	<b>47.01</b>	<b>0.13</b>	<b>0.66</b>	<b>4.21</b>	<b>24.99</b>	<b>-</b>

- (a) This existing stationary source is not major for PSD because the emissions of each criteria pollutant are less than two hundred fifty (<250) tons per year, and it is not one of the twenty-eight (28) listed source categories.
- (b) Fugitive Emissions  
Since this type of operation is not one of the twenty-eight (28) listed source categories under 326 IAC 2-2 or 326 IAC 2-3, fugitive emissions are not counted toward the determination of PSD and Emission Offset applicability.

**Federal Rule Applicability**

The following federal rules are applicable to the source:

- (a) ADM Grain Company is subject to the New Source Performance Standard for Grain Elevators (40 CFR 60.300, Subpart DD), which is incorporated by reference as 326 IAC 12. This source is operating a grain elevator with a permanent storage capacity greater than 2.5 million U.S. bushels. All grain handling operations and storage bin vents at the elevator are subject to the requirements of this New Source Performance Standard.

Nonapplicable portions of the NSPS will not be included in the permit. This source is subject to the following portions of Subpart DD.

- (1) 40 CFR 60.300(a)
- (2) 40 CFR 60.300(b)
- (3) 40 CFR 60.301
- (4) 40 CFR 60.302(b)
- (5) 40 CFR 60.302(c) (1)
- (6) 40 CFR 60.302(c) (2)
- (7) 40 CFR 60.302(c) (3)
- (8) 40 CFR 60.303

The plate perforation diameter for each grain dryer (EP-4) does not exceed 2.4 mm (0.094 in). Therefore, the grain dryers are not subject to this NSPS.

- (b) There are no National Emission Standards for Hazardous Air Pollutants (NESHAP) (326 IAC 14, 326 IAC 20 and 40 CFR Part 63) included in this permit renewal.

### State Rule Applicability - Entire Source

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

This source is not one of the twenty-eight (28) listed source categories, and the potential to emit (PTE) of all criteria pollutants is less than two hundred fifty (250) tons per year. Therefore, this source is a minor source and 326 IAC 2-2 (PSD) does not apply.

#### 326 IAC 2-3 (Emission Offset)

This source is not a new major source and a major modification has not occurred at the source. Therefore, 326 IAC 2-3 does not apply.

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

This source is located in Jasper County, is not required to have an operating permit under 326 IAC 2-7, Part 70 Permit Program, and does not emit lead in the ambient air at levels equal to or greater than five (5) tons per year. Therefore, 326 IAC 2-6 does 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 Exemptions), 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 6-3-2 (Particulate Emission Limitations for Manufacturing Processes)

Each process at the grain elevator has a process weight rate in excess of sixty thousand (60,000) pounds per hour. All processing is based on the assumption of 60 pounds per bushel (AP-42 Appendix A: Miscellaneous Data and Conversion Factors). The maximum allowable particulate emissions from each process shall be limited based on the following:

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:

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

- (a) Uncontrolled particulate emission rate for the Truck Receiving - House Pit is 63 pounds per hour. This emission unit does not need a control in order to comply with this limit and is able to comply with 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes).
- (b) Uncontrolled particulate emission rate for the Truck Receiving - Penalty Box Pit is 51.77 pounds per hour. This emission unit does not need a control in order to comply with this limit and is able to comply with 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes).

- (c) Uncontrolled particulate emission rate for the Truck Receiving - North Pit, Middle Pit, and South Pit is 67.70 pounds per hour each. These units do not need a control in order to comply with this limit and is able to comply with 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes).
- (d) Uncontrolled particulate emission rate for the Internal Handling operation, including legs, drags, distributors, belts and augers, is 43.60 pounds per hour. This emission unit does not need a control in order to comply with this limit and is able to comply with 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes).
- (e) Uncontrolled particulate emission rate for the House Cleaner is 63 pounds per hour. This emission unit does not need a control in order to comply with this limit and is able to comply with 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes).
- (f) Uncontrolled particulate emission rate for the GSI Cleaner is 65.08 pounds per hour. This emission unit does not need a control in order to comply with this limit and is able to comply with 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes).
- (g) Uncontrolled particulate emission rate for the grain dryers is 55.44 pounds per hour. This emission unit does not need a control in order to comply with this limit and is able to comply with 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes).
- (h) Uncontrolled particulate emission rate for Truck Loadout Bins 5 and 6 is 67.70 pounds per hour each. The emission units do not need a control in order to comply with this limit and are able to comply with 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes).
- (i) Uncontrolled particulate emission rate for Truck Loadout Bins 19 and 20 is 63 pounds per hour each. The emission units do not need a control in order to comply with this limit and are able to comply with 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes).
- (j) Uncontrolled particulate emission rate for Rail Loadout is 79.96 pounds per hour. The emission unit does not need a control in order to comply with this limit and is able to comply with 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes).
- (k) Uncontrolled particulate emission rate for Side Draw Loadout Bins 13, 15, 17, 21 and 25 is 63 pounds per hour each. The emission units do not need a control in order to comply with this limit and are able to comply with 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes).
- (l) Uncontrolled particulate emission rate for the two (2) temporary ground piles is 137.38 pounds per hour. The emission units do not need a control in order to comply with this limit and are able to comply with 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes).
- (m) Uncontrolled particulate emission rate for the seven (7) concrete silos is 110.54 pounds per hour. The emission units do not need a control in order to comply with this limit and are able to comply with IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes).

- (n) Uncontrolled particulate emission rate for the seventeen (17) steel bins is 152.12 pounds per hour. The emission units do not need a control in order to comply with this limit and are able to comply with IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes).
- (o) Uncontrolled particulate emission rate for the flat building is 92.55 pounds per hour. This emission unit does not need a control in order to comply with this limit and is able to comply with IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes).

The operation of the grain elevator will emit less than 10 tons per year of a single HAP and less than 25 tons per year of a combination of HAPs. Therefore, 326 IAC 2-4.1 does not apply.

### **Recommendation**

The staff recommends to the Commissioner that the MSOP 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 January 25, 2007.

### **Conclusion**

The operation of this grain elevator shall be subject to the conditions of the attached MSOP No. 073-24251-00021.

Appendix A: Emissions Calculations  
Small Country Grain Elevator

Company Name: ADM Grain Company

Address City IN Zip: 9179 W. State Road 14, Rensselaer, IN 47978

Permit ID: 073-24251-00021

	Bushels	Tons
Annual Maximum Throughput <sup>1</sup>	20,000,000	600,000
Temporary Storage Pile Capacity <sup>1</sup>	1,400,000	40,600

Process	Pollutant	Emission Factor (lb/ton)	Throughput (tons/yr)	Potential Emissions	Control Efficiency	Controlled Emissions
				(tons/yr)	%	(tons/yr)
Grain Receiving*	PM	0.1075	600,000	32.25	0.00%	32.25
Worst Case = Truck	PM-10	0.0334	600,000	10.02	0.00%	10.02
Headhouse and Internal Handling**	PM	0.061	1,200,000	36.60	99.00%	0.37
	PM-10	0.034	1,200,000	20.40	99.00%	0.20
Rail or Truck Shipping	PM	0.086	600,000	25.80	0.00%	25.80
	PM-10	0.029	600,000	8.70	0.00%	8.70
Grain Drying	PM	0.22	600,000	66.00	0.00%	66.00
	PM-10	0.055	600,000	16.50	0.00%	16.50
Propane Combustion in Grain Dryers***	PM			0.79	0.00%	0.79
	PM-10			0.79	0.00%	0.79
	SO2			0.13	0.00%	0.13
	NOx			24.99	0.00%	24.99
	VOC			0.66	0.00%	0.66
	CO			4.21	0.00%	4.21
Grain Cleaning	PM	0.075	600,000	22.50	99.00%	0.23
	PM-10	0.019	600,000	5.70	99.00%	0.06
Temporary Grain Storage Piles						
Pile Conveying	PM	0.061	40,600	1.24	0.00%	1.24
	PM-10	0.034	40,600	0.69	0.00%	0.69
Pile Loading	PM	0.035	40,600	0.71	0.00%	0.71
	PM-10	0.0078	40,600	0.16	0.00%	0.16
Storage Bin Vents	PM	0.025	600,000	7.50	0.00%	7.50
	PM-10	0.0063	600,000	1.89	0.00%	1.89
Total Non-fugitive Emissions			PM	193.39		134.88
			PM-10	64.85		39.01
			SO2	0.13		0.13
			NOx	24.99		24.99
			VOC	0.66		0.66
			CO	4.21		4.21
Unpaved Roadways - Fugitive	PM			36.49		36.49
	PM-10			8		8
Total Emissions				Uncontrolled Emissions	Controlled Emissions	
				PM	229.88	171.37
				PM-10	72.85	47.01
				SO2	0.13	0.13
				NOx	24.99	24.99
				VOC	0.66	0.66
				CO	4.21	4.21

Emission Factors from US EPA's AP-42, Section 9.9.1-1, May, 2003.

<sup>1</sup> Annual Maximum Throughput and Temporary Storage Capacity are Actual x 1.2, factor for grain handling operations

\* PM and PM10 emission factors for grain receiving are the weighted average emission factors based in 50% of grain received by straight trucks and 50% received by hopper bottom trucks as a worst case scenario using the methodology from US EPA's AP-42, Section 9.9.1, page 9.9.1-19, May 2003.

\*\* Throughput for Internal Handling is based on a conservative estimate of 2 times the grain throughput as the grain is typically handled more than once

\*\*\* see attached calculations for Dryer

**Appendix A: Emission Calculations  
LPG-Propane - Industrial Boilers  
(Heat input capacity: > 10 MMBtu/hr and < 100 MMBtu/hr)**

**Company Name:** ADM Grain Company  
**Address City IN Zip:** 9179 W. State Road 14  
**Permit Number:** 073-24251-00021  
**Plt ID:** 073-00021  
**Reviewer:** Anne-Marie C. Hart  
**Date:** 19-Jun-2007

Heat Input Capacity                      Potential Throughput                      SO2 Emission factor = 0.10 x S  
MMBtu/hr                                      kgals/year                                      S = Sulfur Content = 1.00 grains/100ft<sup>3</sup>

27.48                                              2630.87

Emission Factor in lb/kgal	Pollutant					
	PM*	PM10*	SO2 (0.10S)	NOx	VOC	CO
Potential Emission in tons/yr	0.60	0.60	0.10	19.00	0.50	3.20
	0.79	0.79	0.13	24.99	0.66	4.21

\*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.

**Methodology**

1 gallon of LPG has a heating value of 94,000 Btu  
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