



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

We Protect Hoosiers and Our Environment.

Mitchell E. Daniels Jr.
Governor

Thomas W. Easterly
Commissioner

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

TO: Interested Parties / Applicant

DATE: August 13, 2008

RE: Archer Daniels Midland Company / 023-26542-00011

FROM: Matthew Stuckey, Branch 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 13-17-3-4 and 326 IAC 2, this permit modification is effective immediately, unless a petition for stay of effectiveness is filed and granted, 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 4-21.5-3-7 and IC 13-15-7-3 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 Environmental Adjudication, 100 North Senate Avenue, Government Center North, Suite N 501E, Indianapolis, IN 46204, **within eighteen (18) 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.

Pursuant to 326 IAC 2-7-18(d), any person may petition the U.S. EPA to object to the issuance of a Title V operating permit or modification within sixty (60) days of the end of the forty-five (45) day EPA review period. Such an objection must be based only on issues that were raised with reasonable specificity during the public comment period, unless the petitioner demonstrates that it was impracticable to raise such issues, or if the grounds for such objection arose after the comment period.

To petition the U.S. EPA to object to the issuance of a Title V operating permit, contact:

U.S. Environmental Protection Agency
401 M Street
Washington, D.C. 20406

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.



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August 13, 2008

Mr. Ken Doellman
Archer Daniels Midland Company
2100 Gardner Expressway
Quincy, Illinois 62305

Re: 023-26542-00011
Third Significant Permit Modification to:
Part 70 Operating Permit No.: T023-6066-00011

Dear Mr. Doellman:

Archer Daniels Midland Company was issued Part 70 operating permit T023-6066-00011 on July 13, 2004 for a soybean processing and oil refining plant. A letter requesting changes to this permit was received on April 11, 2008. Pursuant to the provisions of 326 IAC 2-7-12 a significant permit modification to this permit is hereby approved as described in the attached Technical Support Document.

The permit modification consists of incorporating in the Part 70 Permit the following source modification permitted in MSM No. 023-26411-00011:

The stockpiling of soybean meal in railcars during plant shutdowns at a limited throughput of 100,000 tons/year utilizing existing grain receiving/unloading pits EU01 and EU02, elevator leg EU03, conveyor EU28A, storage tanks EU30, surge tanks EU31, mixing conveyor EU33 and rail and truck meal loadout EU34 and EU35.

When soybean meal is delivered by trucks, the stockpiled soybean meal from the railcars will be unloaded back into the plant through the existing grain receiving/unloading pits EU01 and EU02, through the elevator leg EU03, and conveyor EU28A, then into the meal storage tanks EU30. Then the soybean meal will be conveyed back into the surge tanks EU31 and through the mixing conveyor EU33 and finally into the truck meal loadout EU34.

The source has a maximum soybean meal production capability of 1,143,180 tons per year as permitted in PSD Permit No. 023-24843-00011, issued on March 19, 2008.

All other conditions of the permit shall remain unchanged and in effect. Please find attached copy of the revised Part 70 Operating Permit.

This decision is subject to the Indiana Administrative Orders and Procedures Act - IC 4-21.5-3-5. If you have any questions on this matter, please contact Aida De Guzman at (800) 451-6027, press 0 and ask for extension (3-4972), or dial (317) 233-4972.

Sincerely,

Original document signed by

Donald F. Robin, P.E., Section Chief
Permits Branch
Office of Air Quality

Attachments

APD

cc: File – Clinton County
Clinton County Health Department
IDEM Air Compliance Section Inspector
Compliance Data Section
Administrative and Development



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**PART 70 OPERATING PERMIT
OFFICE OF AIR QUALITY**

**Archer Daniels Midland Company
2191 West County Road 0 N/S
Frankfort, Indiana 46041**

(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.

The Permittee must comply with all conditions of this permit. Noncompliance with any provisions of this permit is grounds for enforcement action; permit termination, revocation and reissuance, or modification; or denial of a permit renewal application. Noncompliance with any provision of this permit, except any provision specifically designated as not federally enforceable, constitutes a violation of the Clean Air Act. It shall not be a defense for the Permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit. An emergency does constitute an affirmative defense in an enforcement action provided the Permittee complies with the applicable requirements set forth in Section B, Emergency Provisions.

This permit is issued in accordance with 326 IAC 2 and 40 CFR Part 70 Appendix A and contains the conditions and provisions specified in 326 IAC 2-7 as required by 42 U.S.C. 7401, et. seq. (Clean Air Act as amended by the 1990 Clean Air Act Amendments), 40 CFR Part 70.6, IC 13-15 and IC 13-17. This permit also addresses certain new source review requirements for existing equipment and is intended to fulfill the new source review procedures pursuant to 326 IAC 2-2 and 326 IAC 2-7-10.5, applicable to those conditions.

Operation Permit No.: T023-6066-00011	
Issued by: Original Signed by Janet G. McCabe, Assistant Commissioner Office of Air Quality	Issuance Date: July 13, 2004 Expiration Date: July 13, 2009
1st Minor Permit Modification No. 023-19883-00011, issued on February 17, 2005; 1st Administrative Amendment No. 023-21789-00011, issued on December 16, 2005; 1st Significant Permit Modification No. 023-21909-00011, issued on January 19, 2006; and 2nd Significant Permit Modification No. 023-25870-00011, issued on May 7, 2008	
3rd Significant Permit Modification No. 023-26542-00011	
Issued by: <i>Original document signed by</i> Donald F. Robin, P.E., Section Chief Permits Branch Office of Air Quality	Issuance Date: August 13, 2008 Expiration Date: July 13, 2009

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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 through A.3 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 2-7-4(c)] [326 IAC 2-7-5(15)] [326 IAC 2-7-1(22)]

The Permittee owns and operates a stationary soybean processing and oil refining operation.

Source Address:	2191 West County Road 0 N/S, Frankfort, IN 46041
Mailing Address:	P.O. Box 249, Frankfort, IN 46041
General Source Phone Number:	(765) 654-8729
SIC Code:	2075
County Location:	Clinton
Source Location Status:	Attainment for all criteria pollutants
Source Status:	Part 70 Permit Program Major Source, under PSD Rules; Major Source, Section 112 of the Clean Air Act Not 1 of 28 Source Categories

A.2 Emission Units and Pollution Control Equipment Summary [326 IAC 2-7-4(c)(3)] [326 IAC 2-7-5(15)]

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

- (a) One (1) rail unloading operation, identified as EU01, constructed in 1946 and modified in 2004, with particulate emissions controlled by one (1) baghouse (GR-1), and exhausting to one (1) stack (EP01), including the following:
 - (1) one (1) discharge drag conveyor with particulate emissions also controlled by one (1) baghouse (GR-1), and exhausting to one (1) stack (EP01);
- (b) One (1) truck unloading operation, identified as EU02, constructed in 1946, with particulate emissions controlled by one (1) baghouse (GR-1), and exhausting to one (1) stack (EP01);
- (c) One (1) grain elevator, identified as EU03, constructed in 1946, with particulate emissions controlled by one (1) baghouse (GR-1), and exhausting to one (1) stack (EP01);
- (d) One (1) conveyor to grain storage, identified as EU04, constructed in 1946 and approved for modification in 2008, controlled for particulate matter by one (1) baghouse (GR-1), and exhausting to one (1) stack (EP01);
- (e) Two (2) concrete silo top vents, identified as EU05, constructed in 1946, controlled for particulate matter by one (1) baghouse (GR-1), and exhausting to one (1) stack (EP01);
- (f) Two (2) steel storage tank vents, identified as EU06, constructed in 1965, each exhausting through two (2) exhaust fans to the atmosphere;
- (g) One (1) conveyor from grain storage, identified as EU07, constructed in 1946 and approved for modification in 2008, controlled for particulate matter by one (1) cyclone (CE-18) and one (1) baghouse (CE-05) in series, and exhausting to one (1) stack (EP03);

- (h) Two (2) column grain dryers, identified as EU08, both constructed in 1978;
- (i) One (1) grain cleaner, identified as EU09, constructed in June of 1990 and approved for modification in 2008, controlled for particulate matter by one (1) cyclone (CE-18) and one (1) baghouse (CE-05) in series, and exhausting to one (1) stack (EP03);
- (j) One (1) bean dryer, identified as EU10, constructed in February of 1986, controlled for particulate matter by one (1) cyclone (CE-06) and one (1) baghouse (BH-06A) in series, and exhausting to one (1) stack (EP04);
- (k) Cracking rolls, identified as EU11, constructed in February of 1986 and approved for modification in 2008, controlled for particulate matter by one (1) cyclone (CE-06) and one (1) baghouse (BH-06A) in series, and exhausting to one (1) stack (EP04);
- (l) One (1) hull separator system, identified as EU12, constructed in February of 1986 and approved for modification in 2008, controlled for particulate matter by one (1) cyclone (CE-07), and exhausting to one (1) stack (EP05);
- (m) One (1) conditioner, identified as EU13, constructed in February of 1986 and approved for modification in 2008, controlled for particulate matter by one (1) cyclone (CE-06) and one (1) baghouse (BH-06A) in series, and exhausting to one (1) stack (EP04);
- (n) One (1) flaking operation, identified as EU14, constructed in June of 1985 and approved for modification in 2008, controlled for particulate matter by one (1) cyclone (CE-07), and exhausting to one (1) stack (EP05);
- (o) One (1) expander, identified as EU15, constructed in August of 1994, exhausting to one (1) stack (EP06);
- (p) One (1) hull screening operation, identified as EU16, constructed in August of 1994 and approved for modification in 2008, controlled for particulate matter by one baghouse (CE-05) and three (3) cyclones (CE-19, CE-19A and CE-19B) in parallel, and exhausting to one (1) stack (EP03);
- (q) One (1) hull grinder, identified as EU17, constructed in June of 1989 and approved for modification in 2008, controlled for particulate matter by one (1) cyclone (CE-20) and one (1) baghouse (CE-20A) in series, and exhausting to one (1) stack (EP20);
- (r) One (1) hull storage unit, identified as EU18, constructed in 1946, controlled for particulate matter by one (1) cyclone (CE-18) and one (1) baghouse (CE-05) in series, and exhausting to one (1) stack (EP03);
- (s) One (1) hull conveyor, identified as EU19, constructed in 1946 and approved for modification in 2008, controlled for particulate matter by one (1) cyclone (CE-18) and one (1) baghouse (CE-05) in series, and exhausting to one (1) stack (EP03);
- (t) One (1) pellet mill, identified as EU20, constructed in June of 1992, controlled for particulate matter by one (1) cyclone (CE-08), and exhausting to one (1) stack (EP07);
- (u) One (1) pellet cooler, identified as EU21, constructed in June of 1992, controlled for particulate matter by one (1) cyclone (CE-08), and exhausting to one (1) stack (EP07);
- (v) One (1) pellet storage unit, identified as EU22, constructed in June of 1992, controlled for particulate matter by one (1) cyclone (CE-18) and one (1) baghouse (CE-05) in series and exhausting to one (1) stack (EP03);

- (w) One (1) dryer deck, DTDC - Deck #1, identified as EU23, constructed in May of 1985 and approved for modification in 2008, controlled for particulate matter by one (1) cyclone (CE-09), and exhausting to one (1) stack (EP08);
- (x) Two (2) DTDC dryer decks:
 - (1) DTDC - Deck #2, identified as EU24, constructed in May of 1985 and approved for modification in 2008, emissions controlled by one (1) cyclone (CE-10), and exhausting to one (1) stack (EP09).
 - (2) DTDC - Deck #3, identified as EU24A, approved for construction in 2008, emissions controlled by one (1) cyclone (CE-10A), and exhausting to one (1) stack (EP09A).
- (y) One (1) DTDC - cooler deck, identified as EU25, constructed in May of 1985 and approved for modification in 2008, controlled for particulate matter by one (1) cyclone (CE-11), and exhausting to one (1) stack (EP10);
- (z) One (1) meal conveyor (from DTDC to meal screens), identified as EU26, constructed in June of 1991 and approved for reconstruction in 2008, controlled for particulate matter by one (1) baghouse (BH-2A), and exhausting to one (1) stack (EP11);
- (aa) One (1) meal sifting operation, identified as EU27, constructed in June of 1991 and approved for modification in 2008, controlled for particulate matter by one (1) baghouse (BH-2A), and exhausting to one (1) stack (EP11);
- (bb) One (1) meal grinding operation, identified as EU28, constructed in June of 1991 and approved for modification in 2008, controlled for particulate matter by one (1) baghouse (BH-2A), and exhausting to one (1) stack, (EP11);
- (cc) One (1) meal storage conveyor, identified as EU29, constructed in June of 1991 and approved for modification in 2008, controlled for particulate matter by one (1) baghouse (BH-2A), and exhausting to one (1) stack (EP11);
- (dd) One (1) meal storage unit (two tanks), identified as EU30, constructed in 1958 and approved for modification in 2008, controlled for particulate matter by one (1) baghouse (BH-2A), and exhausting to one (1) stack (EP11);
- (ee) Two (2) meal surge tanks, identified as EU31, constructed in 1986 and approved for modification in 2008, with a portion of emissions controlled for particulate matter by one (1) baghouse (ML-1), exhausting to one (1) stack (EP12);
- (ff) One (1) hull surge tank, identified as EU32, constructed in 1986, with a portion of emissions controlled for particulate matter by one (1) baghouse (ML-1), exhausting to one (1) stack (EP12);
- (gg) One (1) enclosed mixing conveyor, identified as EU33, constructed in 1988, conveying to the truck and rail meal and hull pellet loadout operations;
- (hh) One (1) truck meal and hull pellet loadout operation, identified as EU34, constructed in 1988, controlled for particulate by one (1) baghouse (ML-1), and exhausting to one (1) stack (EP12);
- (ii) One (1) rail meal and hull pellet loadout operation, identified as EU35, constructed in 1988, controlled for particulate matter by one (1) baghouse (ML-1), and exhausting to one (1) stack (EP12);

- (jj) One (1) meal clay storage unit, identified as EU36, constructed in 1986, controlled for particulate matter by one (1) baghouse (MC-1), and exhausting to one (1) stack (EP13);
 - (kk) One (1) refinery clay storage unit, identified as EU37, constructed in 1992, controlled for particulate matter by one (1) baghouse (RCB), and exhausting to one (1) stack (EP14);
 - (ll) One (1) oil extraction process, identified as EU38, constructed in May of 1985 and approved for modification in 2008, using hexane solvent, with emissions released through a number of exit streams in the process collectively called the "hexane bubble". The process is equipped with one (1) mineral oil absorber/scrubber (CE-22), which exhausts through one (1) stack (EP25). This process is also equipped with a once-through cold water condenser located between the vent condenser and the mineral oil absorber/scrubber.
 - (mm) One (1) bean cleaner, identified as EU43, constructed in 1998, controlled for particulate matter by one (1) baghouse (CE-21), and exhausting to one (1) stack (EP24);
 - (nn) One (1) vertical seed conditioner, also referred to as a steam-heated soybean heater, identified as EU44, approved for construction in 2008, emissions controlled by one (1) cyclone (CE-44), and exhausting to one (1) stack (EP44);
 - (oo) Boiler #1, identified as EU39, constructed in 1960, firing natural gas, vegetable oil, No. 2 distillate fuel oil, or blends of vegetable oil and No. 2 distillate fuel oil, exhausting to one (1) stack (EP15);
 - (pp) Boiler #3, identified as EU41, constructed in 1992, firing natural gas, vegetable oil, No. 2 distillate fuel oil, or blends of vegetable oil and No. 2 distillate fuel oil, exhausting to one (1) stack (EP17);
 - (qq) One (1) Refinery Boiler, identified as EU42, constructed in 2000, firing natural gas or No. 2 distillate fuel oil, exhausting to one (1) stack (EP18);
 - (rr) Boiler #4, identified as EU46, constructed in 1995 approved for installation in 2008, firing natural gas, vegetable oil, No. 2 distillate fuel oil or blends of vegetable oil and No. 2 distillate fuel oil, with emissions uncontrolled, and exhausting to one (1) stack (EP46).
- Note: The projected production rates of the above listed emission units are listed in Appendix A.
- (ss) Approved in 2008 to stockpile soybean meal in railcars during plant shutdowns at a limited throughput of 100,000 tons/year utilizing existing grain receiving/unloading pits EU01 and EU02, elevator leg EU03, conveyor EU28A, storage tanks EU30, surge tanks EU31, mixing conveyor EU33 and rail and truck meal loadout EU34 and EU35.

A.3 Specifically Regulated Insignificant Activities [326 IAC 2-7-1(21)] [326 IAC 2-7-4(c)]
[326 IAC 2-7-5(15)]

This stationary source also includes the following insignificant activities which are specifically regulated, as defined in 326 IAC 2-7-1(21):

- (a) Degreasing operations that do not exceed 145 gallons per 12 months, except if subject to 326 IAC 20-6: One (1) parts washer, constructed after 1990. [326 IAC 8-3-2][326 IAC 8-3-5]
- (b) The following equipment related to manufacturing activities not resulting in the emission of HAPs: brazing equipment, cutting torches, soldering equipment, welding equipment. [326 IAC 6-3-2]

- (c) The following activities with emissions equal to or less than insignificant thresholds:
 - (1) one (1) silica clay storage silo, identified as EU47, constructed in 2002, with particulate emissions controlled by a baghouse (RC-2), exhausting through one (1) stack (EP19). [326 IAC 6-3-2][326 IAC 2-2]
 - (2) one (1) cooling tower, identified as EU45, with a design recirculation rate of 1,500 gal/min. [326 IAC 2-2]

A.4 Part 70 Permit Applicability [326 IAC 2-7-2]

This stationary source is required to have a Part 70 permit by 326 IAC 2-7-2 (Applicability) because:

- (a) It is a major source, as defined in 326 IAC 2-7-1(22);
- (b) It is a source in a source category designated by the United States Environmental Protection Agency (U.S. EPA) under 40 CFR 70.3 (Part 70 - Applicability).

SECTION B

GENERAL CONDITIONS

B.1 Definitions [326 IAC 2-7-1]

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 2-7) shall prevail.

B.2 Revocation of Permits [326 IAC 2-2-8]

Pursuant to 326 IAC 2-2-8(a)(1), this permit to construct shall expire if construction is not commenced within eighteen (18) months after receipt of this approval or if construction is discontinued for a period of eighteen (18) months or more.

B.3 Affidavit of Construction [326 IAC 2-5.1-3(h)] [326 IAC 2-5.1-4]

This document shall also become the approval to operate pursuant to 326 IAC 2-5.1-4 when prior to the start of operation, the following requirements are met:

- (a) The attached Affidavit of Construction shall be submitted to the Office of Air Quality (OAQ), verifying that the emission units were constructed as proposed in the application or the permit. The emission units covered in this permit may begin operating on the date the Affidavit of Construction is postmarked or hand delivered to IDEM if constructed as proposed.
- (b) If actual construction of the emission units differs from the construction proposed in the application, the source may not begin operation until the permit has been revised pursuant to 326 IAC 2 and an Operation Permit Validation Letter is issued.
- (c) The Permittee shall attach the Operation Permit Validation Letter received from the Office of Air Quality (OAQ) to this permit.

B.4 Permit Term [326 IAC 2-7-5(2)][326 IAC 2-1.1-9.5][326 IAC 2-7-4(a)(1)(D)][IC 13-15-3-6(a)]

- (a) This permit, T023-6066-00011, 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, including any permit shield provided in 326 IAC 2-7-15, until the renewal permit has been issued or denied.

B.5 Term of Conditions [326 IAC 2-1.1-9.5]

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.6 Enforceability [326 IAC 2-7-7]

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.7 Termination of Right to Operate [326 IAC 2-7-10] [326 IAC 2-7-4(a)]

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 nine (9) months prior to the date of expiration of the source's existing permit, consistent with 326 IAC 2-7-3 and 326 IAC 2-7-4(a).

B.8 Severability [326 IAC 2-7-5(5)]

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.9 Property Rights or Exclusive Privilege [326 IAC 2-7-5(6)(D)]

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

B.10 Duty to Provide Information [326 IAC 2-7-5(6)(E)]

- (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 the "responsible official" as defined by 326 IAC 2-7-1(34). 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.11 Certification [326 IAC 2-7-4(f)] [326 IAC 2-7-6(1)] [326 IAC 2-7-5(3)(C)]

- (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 a responsible official 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) A responsible official is defined at 326 IAC 2-7-1(34).

B.12 Annual Compliance Certification [326 IAC 2-7-6(5)]

- (a) The Permittee shall annually submit a compliance certification report which addresses the status of the source's compliance with the terms and conditions contained in this permit, including emission limitations, standards, or work practices. The initial certification shall cover the time period from the date of final permit issuance through December 31 of the same year. All subsequent certifications shall cover the time period from January 1 to December 31 of the previous year, and shall be submitted in letter form no later than July 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

and

United States Environmental Protection Agency, Region V
Air and Radiation Division, Air Enforcement Branch - Indiana (AE-17J)
77 West Jackson Boulevard
Chicago, Illinois 60604-3590

- (b) The annual compliance certification report 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) The annual compliance certification report shall include the following:
 - (1) The appropriate identification of each term or condition of this permit that is the basis of the certification;
 - (2) The compliance status;
 - (3) Whether compliance was continuous or intermittent;
 - (4) The methods used for determining the compliance status of the source, currently and over the reporting period consistent with 326 IAC 2-7-5(3); and
 - (5) Such other facts, as specified in Sections D of this permit, as IDEM, OAQ, may require to determine the compliance status of the source.

The submittal by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

B.13 Preventive Maintenance Plan [326 IAC 2-7-5(1),(3) and (13)] [326 IAC 2-7-6(1) and (6)]
[326 IAC 1-6-3]

- (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, IN 46204-2251

- The PMP extension notification does not require the certification by the “responsible official” as defined by 326 IAC 2-7-1(34).
- (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 PMP does not require the certification by the “responsible official” as defined by 326 IAC 2-7-1(34).
 - (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.14 Emergency Provisions [326 IAC 2-7-16]

- (a) An emergency, as defined in 326 IAC 2-7-1(12), is not an affirmative defense for an action brought for noncompliance with a federal or state health-based emission limitation.
- (b) An emergency, as defined in 326 IAC 2-7-1(12), constitutes an affirmative defense to an action brought for noncompliance with a technology-based emission limitation if the affirmative defense of an emergency is demonstrated through properly signed, contemporaneous operating logs or other relevant evidence that describe the following:
 - (1) An emergency occurred and the Permittee can, to the extent possible, identify the causes of the emergency;
 - (2) The permitted facility was at the time being properly operated;
 - (3) During the period of an emergency, the Permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards or other requirements in this permit;
 - (4) For each emergency lasting one (1) hour or more, the Permittee notified IDEM, OAQ, within four (4) daytime business hours after the beginning of the emergency, or after the emergency was discovered or reasonably should have been discovered;

Telephone Number: 1-800-451-6027 (ask for Office of Air Quality,
Compliance Section), or
Telephone Number: 317-233-0178 (ask for Compliance Section)
Facsimile Number: 317-233-5967

- (5) For each emergency lasting one (1) hour or more, the Permittee submitted the attached Emergency Occurrence Report Form or its equivalent, either by mail or facsimile 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

within two (2) working days of the time when emission limitations were exceeded due to the emergency.

The notice fulfills the requirement of 326 IAC 2-7-5(3)(C)(ii) and must contain the following:

- (A) A description of the emergency;
- (B) Any steps taken to mitigate the emissions; and
- (C) Corrective actions taken.

The notification which shall be submitted by the Permittee does not require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

- (6) The Permittee immediately took all reasonable steps to correct the emergency.
- (c) In any enforcement proceeding, the Permittee seeking to establish the occurrence of an emergency has the burden of proof.
- (d) This emergency provision supersedes 326 IAC 1-6 (Malfunctions). This permit condition is in addition to any emergency or upset provision contained in any applicable requirement.
- (e) The Permittee seeking to establish the occurrence of an emergency shall make records available upon request to ensure that failure to implement a PMP did not cause or contribute to an exceedance of any limitations on emissions. However, IDEM, OAQ, may require that the Preventive Maintenance Plans required under 326 IAC 2-7-4(c)(9) be revised in response to an emergency.
- (f) Failure to notify IDEM, OAQ, by telephone or facsimile of an emergency lasting more than one (1) hour in accordance with (b)(4) and (5) of this condition shall constitute a violation of 326 IAC 2-7 and any other applicable rules.
- (g) If the emergency situation causes a deviation from a technology-based limit, the Permittee may continue to operate the affected emitting facilities during the emergency provided the Permittee immediately takes all reasonable steps to correct the emergency and minimize emissions.
- (h) The Permittee shall include all emergencies in the Quarterly Deviation and Compliance Monitoring Report.

B.15 Permit Shield [326 IAC 2-7-15] [326 IAC 2-7-20] [326 IAC 2-7-12]

- (a) Pursuant to 326 IAC 2-7-15, the Permittee has been granted a permit shield. The permit shield provides that compliance with the conditions of this permit shall be deemed in compliance with any applicable requirements as of the date of permit issuance, provided that either the applicable requirements are included and specifically identified in this permit or the permit contains an explicit determination or concise summary of a determination that other specifically identified requirements are not applicable. The Indiana statutes from IC 13 and rules from 326 IAC, referenced 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 Part 70 permit under 326 IAC 2-7 or for applicable requirements for which a permit shield has been granted.

This permit shield does not extend to applicable requirements which are promulgated after the date of issuance of this permit unless this permit has been modified to reflect such new requirements.

- (b) If, after issuance of this permit, it is determined that the permit is in nonconformance with an applicable requirement that applied to the source on the date of permit issuance,

IDEM, OAQ, shall immediately take steps to reopen and revise this permit and issue a compliance order to the Permittee to ensure expeditious compliance with the applicable requirement until the permit is reissued. The permit shield shall continue in effect so long as the Permittee is in compliance with the compliance order.

- (c) No permit shield shall apply to any permit term or condition that is determined after issuance of this permit to have been based on erroneous information supplied in the permit application. Erroneous information means information that the Permittee knew to be false, or in the exercise of reasonable care should have been known to be false, at the time the information was submitted.
- (d) Nothing in 326 IAC 2-7-15 or in this permit shall alter or affect the following:
 - (1) The provisions of Section 303 of the Clean Air Act (emergency orders), including the authority of the U.S. EPA under Section 303 of the Clean Air Act;
 - (2) The liability of the Permittee for any violation of applicable requirements prior to or at the time of this permit's issuance;
 - (3) The applicable requirements of the acid rain program, consistent with Section 408(a) of the Clean Air Act; and
 - (4) The ability of U.S. EPA to obtain information from the Permittee under Section 114 of the Clean Air Act.
- (e) This permit shield is not applicable to any change made under 326 IAC 2-7-20(b)(2) (Sections 502(b)(10) of the Clean Air Act changes) and 326 IAC 2-7-20(c)(2) (trading based on State Implementation Plan (SIP) provisions).
- (f) This permit shield is not applicable to modifications eligible for group processing until after IDEM, OAQ, has issued the modifications. [326 IAC 2-7-12(c)(7)]
- (g) This permit shield is not applicable to minor Part 70 permit modifications until after IDEM, OAQ, has issued the modification. [326 IAC 2-7-12(b)(8)]

B.16 Prior Permits Superseded [326 IAC 2-1.1-9.5][326 IAC 2-7-10.5]

- (a) All terms and conditions of permits established prior to T023-24846-00011 and issued pursuant to permitting programs approved into the state implementation plan have been either:
 - (1) incorporated as originally stated,
 - (2) revised under 326 IAC 2-7-10.5, or
 - (3) deleted under 326 IAC 2-7-10.5.
- (b) Provided that all terms and conditions are accurately reflected in this combined permit, all previous registrations and permits are superseded by this combined new source review and part 70 operating permit.

B.17 Deviations from Permit Requirements and Conditions [326 IAC 2-7-5(3)(C)(ii)]

- (a) Deviations from any permit requirements (for emergencies see Section B - Emergency Provisions), the probable cause of such deviations, and any response steps or preventive measures taken shall be reported to:

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

using the attached Quarterly Deviation and Compliance Monitoring Report, or its equivalent. A deviation required to be reported pursuant to an applicable requirement that exists independent of this permit, shall be reported according to the schedule stated in the applicable requirement and does not need to be included in this report.

The Quarterly Deviation and Compliance Monitoring Report does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

- (b) A deviation is an exceedance of a permit limitation or a failure to comply with a requirement of the permit.

B.18 Permit Modification, Reopening, Revocation and Reissuance, or Termination
[326 IAC 2-7-5(6)(C)] [326 IAC 2-7-8(a)] [326 IAC 2-7-9]

- (a) This permit may be modified, reopened, revoked and reissued, or terminated for cause. The filing of a request by the Permittee for a Part 70 permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any condition of this permit. [326 IAC 2-7-5(6)(C)] The notification by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).
- (b) This permit shall be reopened and revised under any of the circumstances listed in IC 13-15-7-2 or if IDEM, OAQ, determines any of the following:
 - (1) That this permit contains a material mistake.
 - (2) That inaccurate statements were made in establishing the emissions standards or other terms or conditions.
 - (3) That this permit must be revised or revoked to assure compliance with an applicable requirement. [326 IAC 2-7-9(a)(3)]
- (c) Proceedings by IDEM, OAQ, to reopen and revise this permit shall follow the same procedures as apply to initial permit issuance and shall affect only those parts of this permit for which cause to reopen exists. Such reopening and revision shall be made as expeditiously as practicable. [326 IAC 2-7-9(b)]
- (d) The reopening and revision of this permit, under 326 IAC 2-7-9(a), shall not be initiated before notice of such intent is provided to the Permittee by IDEM, OAQ, at least thirty (30) days in advance of the date this permit is to be reopened, except that IDEM, OAQ, may provide a shorter time period in the case of an emergency. [326 IAC 2-7-9(c)]

B.19 Permit Renewal [326 IAC 2-7-3] [326 IAC 2-7-4] [326 IAC 2-7-8(e)]

- (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 2-7-4. Such information shall be included in the application for each emission unit at this source, except those emission units included on the trivial or insignificant activities list contained in 326 IAC 2-7-1(21) and 326 IAC 2-7-1(40). The renewal application does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

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, IN 46204-2251

- (b) A timely renewal application is one that is:
- (A) Submitted at least nine (9) months prior to the date of the expiration of this permit; and
 - (B) 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 2-7 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.20 Permit Amendment or Modification [326 IAC 2-7-11] [326 IAC 2-7-12]

- (a) Permit amendments and modifications are governed by the requirements of 326 IAC 2-7-11 or 326 IAC 2-7-12 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, IN 46204-2251
- Any such application shall be certified by the "responsible official" as defined by 326 IAC 2-7-1(34).
- (c) The Permittee may implement administrative amendment changes addressed in the request for an administrative amendment immediately upon submittal of the request. [326 IAC 2-7-11(c)(3)]

B.21 Permit Revision Under Economic Incentives and Other Programs [326 IAC 2-7-5(8)] [326 IAC 2-7-12 (b)(2)]

- (a) No Part 70 permit revision shall be required under any approved economic incentives, marketable Part 70 permits, emissions trading, and other similar programs or processes for changes that are provided for in a Part 70 permit.
- (b) Notwithstanding 326 IAC 2-7-12(b)(1) and 326 IAC 2-7-12(c)(1), minor Part 70 permit modification procedures may be used for Part 70 modifications involving the use of economic incentives, marketable Part 70 permits, emissions trading, and other similar approaches to the extent that such minor Part 70 permit modification procedures are explicitly provided for in the applicable State Implementation Plan (SIP) or in applicable requirements promulgated or approved by the U.S. EPA.

B.22 Operational Flexibility [326 IAC 2-7-20] [326 IAC 2-7-10.5]

(a) The Permittee may make any change or changes at the source that are described in 326 IAC 2-7-20(b), (c), or (e), without a prior permit revision, if each of the following conditions is met:

- (1) The changes are not modifications under any provision of Title I of the Clean Air Act;
- (2) Any preconstruction approval required by 326 IAC 2-7-10.5 has been obtained;
- (3) The changes do not result in emissions which exceed the limitations provided in this permit (whether expressed herein as a rate of emissions or in terms of total emissions);
- (4) The Permittee notifies the:

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

and

United States Environmental Protection Agency, Region V
Air and Radiation Division, Regulation Development Branch - Indiana (AR-18J)
77 West Jackson Boulevard
Chicago, Illinois 60604-3590

in advance of the change by written notification at least ten (10) days in advance of the proposed change. The Permittee shall attach every such notice to the Permittee's copy of this permit; and

- (5) The Permittee maintains records on-site, on a rolling five (5) year basis, which document all such changes and emission trades that are subject to 326 IAC 2-7-20(b), (c), or (e). The Permittee shall make such records available, upon reasonable request, for public review.

Such records shall consist of all information required to be submitted to IDEM, OAQ, (and local agency if applicable) in the notices specified in 326 IAC 2-7-20(b)(1), (c)(1), and (e)(2).

(b) The Permittee may make Section 502(b)(10) of the Clean Air Act changes (this term is defined at 326 IAC 2-7-1(36)) without a permit revision, subject to the constraint of 326 IAC 2-7-20(a). For each such Section 502(b)(10) of the Clean Air Act change, the required written notification shall include the following:

- (1) A brief description of the change within the source;
- (2) The date on which the change will occur;
- (3) Any change in emissions; and
- (4) Any permit term or condition that is no longer applicable as a result of the change.

The notification which shall be submitted is not considered an application form, report or compliance certification. Therefore, the notification by the Permittee does not require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

- (c) Emission Trades [326 IAC 2-7-20(c)]
The Permittee may trade emissions increases and decreases in emissions in at the source, where the applicable SIP provides for such emission trades without requiring a permit revision, subject to the constraints of Section (a) of this condition and those in 326 IAC 2-7-20(c).
- (d) Alternative Operating Scenarios [326 IAC 2-7-20(d)]
The Permittee may make changes at the source within the range of alternative operating scenarios that are described in the terms and conditions of this permit in accordance with 326 IAC 2-7-5(9). No prior notification of IDEM, OAQ, or U.S. EPA is required.
- (e) Backup fuel switches specifically addressed in, and limited under, Section D of this permit shall not be considered alternative operating scenarios. Therefore, the notification requirements of part (a) of this condition do not apply.

B.23 Source Modification Requirement [326 IAC 2-7-10.5]

- (a) A modification, construction, or reconstruction is governed by the requirements of 326 IAC 2 and 326 IAC 2-7-10.5.
- (b) Any modification at an existing major source is governed by the requirements of 326 IAC 2-2.

B.24 Inspection and Entry [326 IAC 2-7-6] [IC 13-14-2-2] [IC 13-30-3-1] [IC 13-17-3-2]

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 Part 70 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 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 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 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.25 Transfer of Ownership or Operational Control [326 IAC 2-7-11]

- (a) The Permittee must comply with the requirements of 326 IAC 2-7-11 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, IN 46204-2251

The application which shall be submitted by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).
- (c) The Permittee may implement administrative amendment changes addressed in the request for an administrative amendment immediately upon submittal of the request. [326 IAC 2-7-11(c)(3)]

B.26 Annual Fee Payment [326 IAC 2-7-19] [326 IAC 2-7-5(7)][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. Pursuant to 326 IAC 2-7-19(b), if the Permittee does not receive a bill from IDEM, OAQ, the applicable fee is due April 1 of each year.
- (b) Except as provided in 326 IAC 2-7-19(e), failure to pay may result in administrative enforcement action or revocation of this permit.
- (c) 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.27 Credible Evidence [326 IAC 2-7-5(3)][326 IAC 2-7-6][62 FR 8314][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

Emission Limitations and Standards [326 IAC 2-7-5(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 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.3 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.4 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.5 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). 326 IAC 6-4-2(4) is not federally enforceable.

C.6 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. The provisions of 326 IAC 1-7-1(3), 326 IAC 1-7-2, 326 IAC 1-7-3(c) and (d), 326 IAC 1-7-4, and 326 IAC 1-7-5(a), (b), and (d) are not federally enforceable.

C.7 Asbestos Abatement Projects [326 IAC 14-10] [326 IAC 18] [40 CFR 61, Subpart M]

- (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, IN 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 the "responsible official" 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 [326 IAC 2-7-6(1)]

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

- (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
MC 61-53 IGCN 1003
Indianapolis, IN 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 the "responsible official" as defined by 326 IAC 2-7-1(34).

- (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 the "responsible official" as defined by 326 IAC 2-7-1(34).
- (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]

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 2-7-5(1)] [326 IAC 2-7-6(1)]

C.10 Compliance Monitoring [326 IAC 2-7-5(3)] [326 IAC 2-7-6(1)]

Unless otherwise specified in this permit, all monitoring and record keeping requirements not already legally required shall be implemented within ninety (90) days of permit issuance. If required by Section D, the Permittee shall be responsible for installing any necessary equipment and initiating any required monitoring related to that equipment. If due to circumstances beyond its control, that equipment cannot be installed and operated within ninety (90) days, the Permittee may extend the compliance schedule related to the equipment for 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, IN 46204-2251

in writing, prior to the end of the initial ninety (90) day compliance schedule, with full justification of the reasons for the inability to meet this date.

The notification which shall be submitted by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

Unless otherwise specified in the approval for the new emission unit(s), compliance monitoring for new emission units or emission units added through a source modification shall be implemented when operation begins.

C.11 Monitoring Methods [326 IAC 3] [40 CFR 60] [40 CFR 63]

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] [326 IAC 2-7-5(3)] [326 IAC 2-7-6(1)]

- (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 [326 IAC 2-7-5] [326 IAC 2-7-6]

C.13 Emergency Reduction Plans [326 IAC 1-5-2] [326 IAC 1-5-3]

Pursuant to 326 IAC 1-5-2 (Emergency Reduction Plans; Submission):

- (a) The Permittee shall prepare written emergency reduction plans (ERPs) consistent with safe operating procedures.
- (b) These ERPs shall be submitted for approval 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

within ninety (90) days after the date of issuance of this permit.

The ERP does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

- (c) If the ERP is disapproved by IDEM, OAQ, the Permittee shall have an additional thirty (30) days to resolve the differences and submit an approvable ERP.
- (d) These ERPs shall state those actions that will be taken, when each episode level is declared, to reduce or eliminate emissions of the appropriate air pollutants.
- (e) Said ERPs shall also identify the sources of air pollutants, the approximate amount of reduction of the pollutants, and a brief description of the manner in which the reduction will be achieved.

- (f) Upon direct notification by IDEM, OAQ, that a specific air pollution episode level is in effect, the Permittee shall immediately put into effect the actions stipulated in the approved ERP for the appropriate episode level.
[326 IAC 1-5-3]

C.14 Risk Management Plan [326 IAC 2-7-5(12)] [40 CFR 68]

If a regulated substance, as defined in 40 CFR 68, is present at a source in more than a threshold quantity, the Permittee must comply with the applicable requirements of 40 CFR 68.

C.15 Response to Excursions or Exceedances [326 IAC 2-7-5] [326 IAC 2-7-6]

- (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.16 Actions Related to Noncompliance Demonstrated by a Stack Test [326 IAC 2-7-5] [326 IAC 2-7-6]

- (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 and 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 the "responsible official" as defined by 326 IAC 2-7-1(34).

Record Keeping and Reporting Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-19]

C.17 Emission Statement [326 IAC 2-7-5(3)(C)(iii)][326 IAC 2-7-5(7)][326 IAC 2-7-19(c)][326 IAC 2-6]

- (a) Pursuant to 326 IAC 2-6-3(a)(1), the Permittee shall submit by July 1 of each year an emission statement covering the previous calendar year. The emission statement shall contain, at a minimum, the information specified in 326 IAC 2-6-4(c) and shall meet the following requirements:
 - (1) Indicate estimated actual emissions of all pollutants listed in 326 IAC 2-6-4(a);
 - (2) Indicate estimated actual emissions of regulated pollutants as defined by 326 IAC 2-7-1 (32) ("Regulated pollutant, which is used only for purposes of Section 19 of this rule") from the source, for purpose of fee assessment.

The statement must be submitted to:

Indiana Department of Environmental Management
Technical Support and Modeling Section, Office of Air Quality
100 North Senate Avenue
MC 61-50 IGCN 1003
Indianapolis, IN 46204-2251

The emission statement does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

- (b) The emission statement 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.18 General Record Keeping Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-6]

- (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) If there is a “project” (as defined in 326 IAC 2-2-1(qq) and/or 326 IAC 2-3-1(II)) at an existing emissions unit, other than projects at a source with a Plantwide Applicability Limitation (PAL), which is not part of a “major modification” (as defined in 326 IAC 2-2-1(ee) and/or 326 IAC 2-3-1(z)) and the Permittee elects to utilize the “projected actual emissions” (as defined in 326 IAC 2-2-1(rr) and/or 326 IAC 2-3-1(mm)), the Permittee shall comply with following:
- (1) Before beginning actual construction of the “project” (as defined in 326 IAC 2-2-1(qq) and/or 326 IAC 2-3-1(II)) at an existing emissions unit, document and maintain the following records:
 - (A) A description of the project.
 - (B) Identification of any emissions unit whose emissions of a regulated new source review pollutant could be affected by the project.
 - (C) A description of the applicability test used to determine that the project is not a major modification for any regulated NSR pollutant, including:
 - (i) Baseline actual emissions;
 - (ii) Projected actual emissions;
 - (iii) Amount of emissions excluded under section 326 IAC 2-2-1(rr)(2)(A)(iii) and/or 326 IAC 2-3-1 (mm)(2)(A)(iii); and
 - (iv) An explanation for why the amount was excluded, and any netting calculations, if applicable.
 - (2) Monitor the emissions of any regulated NSR pollutant that could increase as a result of the project and that is emitted by any existing emissions unit identified in (1)(B) above; and
 - (3) Calculate and maintain a record of the annual emissions, in tons per year on a calendar year basis, for a period of five (5) years following resumption of regular operations after the change, or for a period of ten (10) years following resumption of regular operations after the change if the project increases the design capacity of or the potential to emit that regulated NSR pollutant at the emissions unit.

C.19 General Reporting Requirements [326 IAC 2-7-5(3)(C)] [326 IAC 2-1.1-11]

- (a) The Permittee shall submit the attached Quarterly Deviation and Compliance Monitoring Report or its equivalent. Any deviation from permit requirements, the date(s) of each deviation, the cause of the deviation, and the response steps taken must be reported. This report shall be submitted within thirty (30) days of the end of the reporting period. The Quarterly Deviation and Compliance Monitoring Report shall include the certification by the “responsible official” as defined by 326 IAC 2-7-1(34).
- (b) The report required in (a) of this condition and 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, IN 46204-2251

- (c) 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.
- (d) 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 the "responsible official" as defined by 326 IAC 2-7-1(34).
- (e) 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.
- (f) If the Permittee is required to comply with the recordkeeping provisions of (c) in Section C - General Record Keeping Requirements for any "project" (as defined in 326 IAC 2-2-1 (qq) and/or 326 IAC 2-3-1 (ll)) at an existing emissions unit, and the project meets the following criteria, then the Permittee shall submit a report to IDEM, OAQ:
 - (1) The annual emissions, in tons per year, from the project identified in (c)(1) in Section C- General Record Keeping Requirements exceed the baseline actual emissions, as documented and maintained under Section C- General Record Keeping Requirements (c)(1)(C)(i), by a significant amount, as defined in 326 IAC 2-2-1 (xx) and/or 326 IAC 2-3-1 (qq), for that regulated NSR pollutant, and
 - (2) The emissions differ from the preconstruction projection as documented and maintained under Section C - General Record Keeping Requirements (c)(1)(C)(ii).
- (g) The report for project at an existing emissions unit shall be submitted within sixty (60) days after the end of the year and contain the following:
 - (1) The name, address, and telephone number of the major stationary source.
 - (2) The annual emissions calculated in accordance with (c)(2) and (3) in Section C - General Record Keeping Requirements.
 - (3) The emissions calculated under the actual-to-projected actual test stated in 326 IAC 2-2-2(d)(3) and/or 326 IAC 2-3-2(c)(3).
 - (4) Any other information that the Permittee deems fit to include in this report.

Reports required in this part shall be submitted to:

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

- (h) The Permittee shall make the information required to be documented and maintained in accordance with (c) in Section C - General Record Keeping Requirements available for review upon a request for inspection by IDEM, OAQ. The general public may request this information from the IDEM, OAQ under 326 IAC 17.1.

Stratospheric Ozone Protection

C.20 Compliance with 40 CFR 82 and 326 IAC 22-1

Pursuant to 40 CFR 82 (Protection of Stratospheric Ozone), Subpart F, except as provided for motor vehicle air conditioners in Subpart B, the Permittee shall comply with the standards for recycling and emissions reduction:

- (a) Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices pursuant to 40 CFR 82.156.
- (b) Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to 40 CFR 82.158.
- (c) Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to 40 CFR 82.161.

SECTION D.1 FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(15)]:

- (a) One (1) rail unloading operation, identified as EU01, constructed in 1946 and modified in 2004, with particulate emissions controlled by one (1) baghouse (GR-1), and exhausting to one (1) stack (EP01), including the following:
 - (1) one (1) discharge drag conveyor with particulate emissions also controlled by one (1) baghouse (GR-1), and exhausting to one (1) stack (EP01);
- (b) One (1) truck unloading operation, identified as EU02, constructed in 1946, with particulate emissions controlled by one (1) baghouse (GR-1), and exhausting to one (1) stack (EP01);
- (c) One (1) grain elevator, identified as EU03, constructed in 1946, with particulate emissions controlled by one (1) baghouse (GR-1), and exhausting to one (1) stack (EP01);
- (d) One (1) conveyor to grain storage, identified as EU04, constructed in 1946 and approved for modification in 2008, controlled for particulate matter by one (1) baghouse (GR-1), and exhausting to one (1) stack (EP01);
- (e) Two (2) concrete silo top vents, identified as EU05, constructed in 1946, controlled for particulate matter by one (1) baghouse (GR-1), and exhausting to one (1) stack (EP01);
- (f) Two (2) steel storage tank vents, identified as EU06, constructed in 1965, each exhausting through two (2) exhaust fans to the atmosphere;
- (g) One (1) conveyor from grain storage, identified as EU07, constructed in 1946 and approved for modification in 2008, controlled for particulate matter by one (1) cyclone (CE-18) and one (1) baghouse (CE-05) in series, and exhausting to one (1) stack (EP03);
- (h) Two (2) column grain dryers, identified as EU08, both constructed in 1978;
- (i) One (1) grain cleaner, identified as EU09, constructed in June of 1990 and approved for modification in 2008, controlled for particulate matter by one (1) cyclone (CE-18) and one (1) baghouse (CE-05) in series, and exhausting to one (1) stack (EP03);
- (j) One (1) bean dryer, identified as EU10, constructed in February of 1986, controlled for particulate matter by one (1) cyclone (CE-06) and one (1) baghouse (BH-06A) in series, and exhausting to one (1) stack (EP04);
- (k) Cracking rolls, identified as EU11, constructed in February of 1986 and approved for modification in 2008, controlled for particulate matter by one (1) cyclone (CE-06) and one (1) baghouse (BH-06A) in series, and exhausting to one (1) stack (EP04);
- (l) One (1) hull separator system, identified as EU12, constructed in February of 1986 and approved for modification in 2008, controlled for particulate matter by one (1) cyclone (CE-07), and exhausting to one (1) stack (EP05);
- (m) One (1) conditioner, identified as EU13, constructed in February of 1986 and approved for modification in 2008, controlled for particulate matter by one (1) cyclone (CE-06) and one (1) baghouse (BH-06A) in series, and exhausting to one (1) stack (EP04);
- (n) One (1) flaking operation, identified as EU14, constructed in June of 1985 and approved for modification in 2008, controlled for particulate matter by one (1) cyclone (CE-07), and exhausting to one (1) stack (EP05);

- (o) One (1) expander, identified as EU15, constructed in August of 1994, exhausting to one (1) stack (EP06);
- (p) One (1) hull screening operation, identified as EU16, constructed in August of 1994 and approved for modification in 2008, controlled for particulate matter by one baghouse (CE-05) and three (3) cyclones (CE-19, CE-19A and CE-19B) in parallel, and exhausting to one (1) stack (EP03);
- (q) One (1) hull grinder, identified as EU17, constructed in June of 1989 and approved for modification in 2008, controlled for particulate matter by one (1) cyclone (CE-20) and one (1) baghouse (CE-20A) in series, and exhausting to one (1) stack (EP20);
- (r) One (1) hull storage unit, identified as EU18, constructed in 1946, controlled for particulate matter by one (1) cyclone (CE-18) and one (1) baghouse (CE-05) in series, and exhausting to one (1) stack (EP03);
- (s) One (1) hull conveyor, identified as EU19, constructed in 1946 and approved for modification in 2008, controlled for particulate matter by one (1) cyclone (CE-18) and one (1) baghouse (CE-05) in series, and exhausting to one (1) stack (EP03);
- (t) One (1) pellet mill, identified as EU20, constructed in June of 1992, controlled for particulate matter by one (1) cyclone (CE-08), and exhausting to one (1) stack (EP07);
- (u) One (1) pellet cooler, identified as EU21, constructed in June of 1992, controlled for particulate matter by one (1) cyclone (CE-08), and exhausting to one (1) stack (EP07);
- (v) One (1) pellet storage unit, identified as EU22, constructed in June of 1992, controlled for particulate matter by one (1) cyclone (CE-18) and one (1) baghouse (CE-05) in series and exhausting to one (1) stack (EP03);
- (w) One (1) dryer deck, DTDC - Deck #1, identified as EU23, constructed in May of 1985 and approved for modification in 2008, controlled for particulate matter by one (1) cyclone (CE-09), and exhausting to one (1) stack (EP08);
- (x) Two (2) DTDC dryer decks:
 - (1) DTDC - Deck #2, identified as EU24, constructed in May of 1985 and approved for modification in 2008, emissions controlled by one (1) cyclone (CE-10), and exhausting to one (1) stack (EP09).
 - (2) DTDC - Deck #3, identified as EU24A, approved for construction in 2008, emissions controlled by one (1) cyclone (CE-10A), and exhausting to one (1) stack (EP09A).
- (y) One (1) DTDC - cooler deck, identified as EU25, constructed in May of 1985 and approved for modification in 2008, controlled for particulate matter by one (1) cyclone (CE-11), and exhausting to one (1) stack (EP10);
- (z) One (1) meal conveyor (from DTDC to meal screens), identified as EU26, constructed in June of 1991 and approved for reconstruction in 2008, controlled for particulate matter by one (1) baghouse (BH-2A), and exhausting to one (1) stack (EP11);
- (aa) One (1) meal sifting operation, identified as EU27, constructed in June of 1991 and approved for modification in 2008, controlled for particulate matter by one (1) baghouse (BH-2A), and exhausting to one (1) stack (EP11);
- (bb) One (1) meal grinding operation, identified as EU28, constructed in June of 1991 and approved for

- modification in 2008, controlled for particulate matter by one (1) baghouse (BH-2A), and exhausting to one (1) stack, (EP11);
- (cc) One (1) meal storage conveyor, identified as EU29, constructed in June of 1991 and approved for modification in 2008, controlled for particulate matter by one (1) baghouse (BH-2A), and exhausting to one (1) stack (EP11);
- (dd) One (1) meal storage unit (two tanks), identified as EU30, constructed in 1958 and approved for modification in 2008, controlled for particulate matter by one (1) baghouse (BH-2A), and exhausting to one (1) stack (EP11);
- (ee) Two (2) meal surge tanks, identified as EU31, constructed in 1986 and approved for modification in 2008, with a portion of emissions controlled for particulate matter by one (1) baghouse (ML-1), exhausting to one (1) stack (EP12);
- (ff) One (1) hull surge tank, identified as EU32, constructed in 1986, with a portion of emissions controlled for particulate matter by one (1) baghouse (ML-1), exhausting to one (1) stack (EP12);
- (gg) One (1) enclosed mixing conveyor, identified as EU33, constructed in 1988, conveying to the truck and rail meal and hull pellet loadout operations;
- (hh) One (1) truck meal and hull pellet loadout operation, identified as EU34, constructed in 1988, controlled for particulate by one (1) baghouse (ML-1), and exhausting to one (1) stack (EP12);
- (ii) One (1) rail meal and hull pellet loadout operation, identified as EU35, constructed in 1988, controlled for particulate matter by one (1) baghouse (ML-1), and exhausting to one (1) stack (EP12);
- (jj) One (1) meal clay storage unit, identified as EU36, constructed in 1986, controlled for particulate matter by one (1) baghouse (MC-1), and exhausting to one (1) stack (EP13);
- (kk) One (1) refinery clay storage unit, identified as EU37, constructed in 1992, controlled for particulate matter by one (1) baghouse (RCB), and exhausting to one (1) stack (EP14);
- (ll) One (1) oil extraction process, identified as EU38, constructed in May of 1985 and approved for reconstruction in 2008, using hexane solvent, with emissions released through a number of exit streams in the process collectively called the "hexane bubble". The process is equipped with one (1) mineral oil absorber/scrubber (CE-22), which exhausts through one (1) stack (EP25). This process is also equipped with a once-through cold water condenser located between the vent condenser and the mineral oil absorber/scrubber;
- (mm) One (1) bean cleaner, identified as EU43, constructed in 1998, controlled for particulate matter by one (1) baghouse (CE-21), and exhausting to one (1) stack (EP24);
- (nn) One (1) vertical seed conditioner, also referred to as a steam-heated soybean heater, identified as EU44, approved for construction in 2008, emissions controlled by one (1) cyclone (CE-44), and exhausting to one (1) stack (EP44).
- (ss) Approved in 2008 to stockpile soybean meal in railcars during plant shutdowns at a limited throughput of 100,000 tons/year utilizing existing grain receiving/unloading pits EU01 and EU02, elevator leg EU03, conveyor EU28A, storage tanks EU30, surge tanks EU31, mixing conveyor EU33 and rail and truck meal loadout EU34 and EU35.

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

Emission Limitations and Standards [326 IAC 2-7-5(1)]

D.1.1 Best Available Control Technology (BACT) for Volatile Organic Compounds (VOC) [326 IAC 2-2-3]
 Pursuant to 326 IAC 2-2-3 (PSD - BACT) and PSD SSM 023-24843-00011:

- (a) VOC emissions from the solvent extraction and recovery process main vent shall be controlled by a condenser and mineral oil absorber/scrubber system (CE-22).
- (b) The overall solvent loss ratio of the solvent extraction process shall not exceed 0.179 gallons of hexane per ton of soybeans processed. Compliance with the solvent loss ratio limit shall be demonstrated using the procedures established in 40 CFR Part 63, Subpart GGGG.
- (c) The Permittee shall optimize the design and operation of the Desolventizer-Toaster-Dryer-Cooler (DTDC) (consisting of EU23, EU24, EU24A and EU25) to mitigate VOC emissions.
- (d) Within 60 days of achieving full production permitted by PSD SSM 023-24843-00011, but no later than 180 days after startup of the modified extraction process, the Permittee shall implement a leak detection and correction program to control VOC emissions. The program is included as Attachment A to this permit.
- (e) The amount of soybeans processed by the source shall not exceed 1,314,000 tons twelve consecutive month period with compliance determined at the end of each month.

D.1.2 Prevention of Significant Deterioration (PSD) – PM/PM10 Emission Limitations [326 IAC 2-2]

- (a) Pursuant to PSD SSM 023-24843-00011, the PM and PM10 emissions from the following units are limited as follows:

Unit (ID) *	PM Limit	PM10 Limit	Units for Limit
Vertical Seed Conditioner (EU44)	0.001	0.001	lb/ton beans processed
DTDC Meal Dryer Deck #1 (EU23)	0.00017	0.00017	
DTDC Meal Dryer Deck #2 (EU24)	0.0063	0.0063	
DTDC Meal Dryer Deck #3 (EU24A)	0.0063	0.0063	
DTDC Meal Cooler Deck (EU25)	0.0018	0.0018	
Grain Conveying (EU04)	0.061	0.034	lb/ton grain received
Cracking and Conditioning (EU10/11/13)	0.00161	0.00161	lb/ton beans processed
Conveying to Processing (EU07)	0.061	0.034	lb/ton grain received
Grain Cleaner (EU09)	0.00102	0.00102	lb/ton beans processed
Hull Screening (EU16)	0.00674	0.00674	lb/ton hulls processed
Hull Grinder (EU17)	0.00674	0.00674	
Hull Conveyor (EU19)	0.061	0.034	
Hull Separator and Flaking (EU12/14)	0.050	0.032	lb/ton beans processed
Meal Conveyor (EU26)	0.061	0.034	lb/ton meal produced
Meal Grinder and Sifter (EU27/28)	0.00347	0.00347	lb/ton beans processed
Meal Storage Conveyor (EU29)	0.061	0.034	lb/ton meal

Unit (ID) *	PM Limit	PM10 Limit	Units for Limit
Meal Surge Tanks (EU31)	0.025	0.0063	produced
Truck and Rail Receiving (EU01/02)	0.035	0.0078	lb/ton grain received
Elevator Leg vents (EU03)	0.061	0.034	
Grain Storage (EU05)	0.025	0.0063	
Hull Storage Unit (EU18)	0.025	0.0063	lb/ton hulls processed
Pellet Storage Unit (EU22)	0.025	0.0063	
Pellet Mill and Cooler (EU20/21)	0.030	0.030	
Meal Storage Unit (EU30)	0.025	0.0063	lb/ton meal produced
Truck Meal and Hull Pellet Loadout (EU34)	0.061	0.034	
Rail Meal and Hull Pellet Loadout (EU35) and Storage (EU36)	0.27	0.1755	lb/ton beans processed
Hull Surge Tank (EU32)	0.025	0.0063	lb/ton hulls processed
Meal Clay Storage Unit (EU36)	0.571	0.40	lb/ton clay received
Silica Clay Silo (EU47)	0.571	0.40	lb/ton clay received
Cooling Tower (EU45)	0.030	0.030	lb/hr

- (b) The amount of soybeans processed by the source shall not exceed 1,314,000 tons twelve consecutive month period with compliance determined at the end of each month.
- (c) Units EU10, EU11 and EU13 may operate without the emissions control of baghouse BH-06A for no more than 200 hours per year.

Compliance with these limits will render the requirements of 326 IAC 2-2 not applicable with respect to PM and PM10 to the modification described in PSD SSM 023-24843-00011.

D.1.3 Particulate [326 IAC 6-3-2]

- (a) Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), the allowable particulate emission rate from the facilities listed below during normal operation shall be limited as indicated in the table below.

The pounds per hour limitations were calculated with either of the following equations:

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

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

Emission Unit ID	Process Weight Rate (ton/hr)	Allowable Particulate Emissions (lb/hr)
Rail Unloading, EU01	400	66.3
Truck Unloading, EU02	720	73.4
Grain elevator, EU03	720	73.4
Conveyor to grain storage, EU04	1,200	80.0
Concrete silo top vents, EU05	720	73.4
Steel storage tank vents, EU06	720	73.4
Conveyor from grain storage, EU07	225	59.8
Grain Dryer, EU08	180	57.4
Grain Cleaner, EU09	180	57.4
Bean Dryer, EU10	122	53.3
Cracking Rolls, EU11	180	57.4
Hull Separator, EU12	180	57.4
Conditioner, EU13	180	57.4
Flaking, EU14	172	56.9
Expander, EU15	30.0	40.0
Hull Screen, EU16	14.0	24.0
Hull Grinder, EU17	14.0	24.0
Hull Storage Unit, EU18	9.00	17.9
Hull Conveyor, EU19	14.0	24.0
Pellet Mill, EU20	9.00	17.9
Pellet Cooler, EU21	9.00	17.9
Pellet Storage Unit, EU22	9.00	17.9
Dryer Deck #1, EU23	172	55.1
Dryer Deck #2, EU24	172	55.1
Dryer Deck #3, EU24A	172	55.1
Cooler Deck, EU25	172	55.1
Meal Conveyor, EU26	136	54.4
Meal sifter, EU27	136	54.4
Meal grinder, EU28	136	54.4

Emission Unit ID	Process Weight Rate (ton/hr)	Allowable Particulate Emissions (lb/hr)
Meal storage conveyor, EU29	90.0	50.0
Meal storage tank, EU30	90.0	50.0
Meal surge tanks, EU31	300	63.0
Hull surge tank, EU32	100	51.3
Mixing conveyor, EU33	250	61.0
Truck Meal & Hull Pellet loadout, EU34	250	61.0
Rail Meal & Hull Pellet loadout, EU35	250	61.0
Meal clay storage, EU36	25.0	35.4
Refinery clay storage, EU37	25.0	35.4
Bean cleaner, EU43	180	57.4
Vertical Seed Conditioner, EU44	180	57.4

- (1) For purposes of demonstrating compliance with the particulate emission limits for the rail unloading (EU01), the truck unloading (EU02), the grain elevator (EU03), the conveyor to grain storage (EU04), and the concrete silo top vents (EU05) all exhausting through baghouse GR-1, which exhausts through stack EP01, the allowable particulate emission rate from baghouse GR-1 shall be limited to 366.5 pounds per hour.
- (2) For purposes of demonstrating compliance with the particulate emission limits for the conveyor from grain storage (EU07), the grain cleaner (EU09), the hull screen (EU16), the hull grinder (EU17), the hull storage unit (EU18), the hull conveyor (EU19), and the pellet storage unit (EU22) all exhausting through baghouse CE-05, which exhausts through stack EP03, the allowable particulate emission rate from baghouse CE-05 shall be limited to 225 pounds per hour.
- (3) For purposes of demonstrating compliance with the particulate emission limits for the bean dryer (EU10), the cracking rolls (EU11), and the conditioner (EU13) all exhausting through cyclone CE-06, which exhausts through stack EP04, the allowable particulate emission rate from cyclone CE-06 and baghouse BH-06A shall be limited to 168 pounds per hour.
- (4) For purposes of demonstrating compliance with the particulate emission limits for the hull separator (EU12) and the flakers (EU14) both exhausting through cyclone CE-07, which exhausts through stack EP05, the allowable particulate emission rate from cyclone CE-07 shall be limited to 114.3 pounds per hour.
- (5) For purposes of demonstrating compliance with the particulate emission limits for the pellet mill (EU20) and the pellet cooler (EU21) both exhausting through cyclone CE-08, which exhausts through stack EP07, the allowable particulate emission rate from cyclone CE-08 shall be limited to 35.8 pounds per hour.
- (6) For purposes of demonstrating compliance with the particulate emission limits for the conveyor to meal screens (EU26), the meal sifter (EU27), the meal grinder (EU28), the meal storage conveyor (EU29), and the meal storage tank (EU30) all

exhausting through baghouse BH-2, which exhausts through stack EP11, the allowable particulate emission rate from baghouse BH-2 shall be limited to 263.2 pounds per hour.

- (7) For purposes of demonstrating compliance with the particulate emission limits for the meal surge tank (EU31), the hull surge tank (EU32), the truck meal & hull pellet loadout (EU34), and the rail meal & hull pellet loadout (EU35) all exhausting through baghouse ML-1, which exhausts through stack EP12, the allowable particulate emission rate from baghouse ML-1 shall be limited to 236.3 pounds per hour.

- (b) Pursuant to 326 IAC 6-3-2, the particulate emissions from the following processes when soybean meal is stockpiled in railcars during plant's shutdowns shall be limited as follows:

Emission Unit ID	Process Weight Rate (tons/hr)	Particulate Emissions (lbs/hr)
Rail/Truck Receiving (EU01 and EU02)	400	66.3
Grain/Meal Elevator (EU03)	720	73.4
Conveyor to Meal Storage Tanks (EU28A)	90	50.0
Meal Storage Tanks (EU30)	90	50.0
Meal Surge Tanks (EU31)	300	63.0
Rail/Truck Meal Loadout (EU34 and EU35)	250	61.0

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 60,000 pounds per hour shall be accomplished by use of the equation:

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

D.1.4 Consent Decree Requirements

Pursuant to the Consent Decree in United States v. Archer Daniels Midland Company, Civil Action No. 03-2066, that was lodged with the United States District Court for the Central District of Illinois, the following requirements apply to the Permittee:

- (a) As part of the consent decree, a once-through cold water condenser shall be installed and will be located between the vent condenser and the mineral oil absorber/scrubber. The purpose of this condenser is to condense hexane vapors and reduce the vapor loading to the mineral oil absorber/scrubber. The Consent Decree requires that ADM's Frankfort, Indiana plant install only the once-through cold-water condenser prior to the mineral oil absorber/scrubber. ADM shall conduct a design and engineering review of each affected unit to size the condenser upgrade. The design criteria for the once-through cold-water condenser that will be the basis for sizing the required condenser upgrade is a minimum of 94 ft² surface area.

By no later than the dates set forth in section 6.0 of Attachment 9 of the Consent Decree, VOC Control Technology Plan for ADM's Oilseed Plants, ADM shall upgrade its oilseed plants so that all plants have condenser systems that include, at a minimum, a dedicated "extractor condenser" for the extractor and a once-through cold water condenser following the vent condenser. This shall be done at all ADM plants no later than April 1, 2006.

- (b) By no later than December 31, 2007, ADM shall propose in writing to the U.S. EPA, the Department of Justice, and the OAQ, the Plaintiffs in the Consent Decree for this plant, final VOC Solvent Loss Ratio (SLR) limits for this facility that satisfy the requirements of Subsection 5.2 of Attachment 9 of the Consent Decree presented below.

Except for multi-seed plants, the capacity-weighted average of these final VOC SLR limits for the conventional soybean group shall not exceed the VOC SLR limit of 0.175 gal/ton for conventional soybean plants.

The capacity weighted average of the final VOC SLR limit for the conventional soybean group is to be calculated using the following equation:

$$\text{Conventional Soybean} = 3(\text{Seed}_i * \text{SLR}_i) / 3 (\text{Seed}_i) \# 0.175 \text{ gal/ton}$$

where: Seed_i = Crush capacity of soybean plant i; and
SLR_i = Final SLR Limit for soybean plant i.

The capacity-weighted averages shall be based on the design capacity for each plant that has been approved by the Plaintiffs under Paragraph 68 of the Consent Decree. For purposes of the Consent Decree, design capacity is the "maximum permitted crush capacity" that a plant is allowed to process in a given time period under its operating permit; or, if no limit is included in the operating permit, the plant's maximum physical capacity. This number is expressed as "tons of crush per day."

Note the maximum crush capacity of the oil extraction process at this source is confidential trade secret information.

Compliance with these requirements satisfies the requirements of 326 IAC 2-2 (PSD) and 326 IAC 8-1-6 (New Facilities, General Reduction Requirements).

D.1.5 Prevention of Significant Deterioration (PSD) Minor Limits [326 IAC 2-2]

The Permittee shall comply with the following:

- (a) The source soybean meal production shall be limited to a total of 1,143,180 tons per twelve (12) consecutive month period, with compliance at the end of each month.
- (b) The soybean meal stockpiled into the railcars during plant's shutdown shall be limited to 100,000 tons per twelve (12) consecutive month period, with compliance at the end of each month. The soybean meal stockpiled shall be counted toward the source total soybean meal production limit of 1,143,180 tons per twelve (12) consecutive month period.

Compliance with the above limits shall render the requirements of 326 IAC 2-2, Prevention of Significant Deterioration not applicable with respect to PM and PM10.

D.1.6 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for these facilities and any control devices.

Compliance Determination Requirements

D.1.7 Testing Requirements [326 IAC 2-7-6(1),(6)] [326 IAC 2-1.1-11]

Within twelve (12) months after issuance of PSD SSM 023-24843-00011, in order to demonstrate compliance with Condition D.1.2, the Permittee shall perform PM and PM10 testing of the stack exhaust from all units(except for EU04, EU07, EU19, EU26, EU29, EU03, EU47 and EU45) limited by Condition D.1.2. These tests shall be conducted utilizing methods approved by the Commissioner and repeated at least once every five (5) years from the date of valid compliance demonstration. PM10 includes filterable and condensable PM10. Testing shall be conducted in accordance with Section C - Performance Testing.

D.1.8 VOC Compliance - Consent Decree and PSD [326 IAC 2-2]

(a) Compliance with Conditions D.1.1(b) and D.1.4 shall be determined in accordance with 40 CFR Part 63, Subpart GGGG, with the following exceptions:

- (1) provisions pertaining to HAP content shall not apply;
- (2) monitoring and recordkeeping of solvent losses at the plant shall be conducted daily;
- (3) solvent losses and quantities of oilseed processed during startup and shutdown periods shall not be excluded in determining solvent losses; and
- (4) records shall be kept in the form of the table included in Section 8.0 of Attachment 9 of the Consent Decree and presented here that show total solvent losses, solvent losses during malfunction periods, adjusted solvent losses (i.e., total solvent losses minus malfunction losses) monthly and on a twelve-month rolling basis as follows:

Solvent Loss Record for ADM Oilseed Plant X

Date	Total Crush (tons)		Total Solvent Loss (gallons)		Malfunction Period Solvent Loss (gallons)		Adjusted Solvent Loss ^a (gallons)		SLR ^b (gal/ton)
	Monthly	12-Month Rolling	Monthly	12-Month Rolling	Monthly	12-Month Rolling	Monthly	12-Month Rolling	12-Month Rolling
Month, Year									

a -Adjusted Solvent Loss is equal to Total Solvent Loss minus Malfunction Period Loss.

b -Solvent Loss Ratio is equal to 12-month rolling Adjusted Solvent Loss divided by 12-Month Rolling Total Crush.

Compliance determination for each plant is based on 12-Month Rolling SLR value compared to Final VOC SLR Limit.

(b) For plants with interim or final solvent loss limits, ADM may apply the provisions of 40 CFR Part 63, Subpart GGGG pertaining to malfunction periods only when the conditions in both paragraphs (1) and (2) below are met:

- (1) The malfunction results in a total plant shutdown. For purposes of the Consent Decree, a "total plant shutdown" means a shutdown of the solvent extraction system.
- (2) Cumulative solvent losses during malfunction periods at a plant do not exceed 4,000 gallons in a 12-month rolling period.

At all other times, ADM must include all solvent losses when determining compliance with its interim or final VOC SLR limits at this plant.

During a malfunction period, ADM shall comply with the startup, shutdown and malfunction (SSM) plan as required under Subpart GGGG for the plant. The solvent loss corresponding to a malfunction period will be calculated as the difference in the total solvent inventories for the day before the malfunction period began and the day the plant resumes normal operation.

D.1.9 Particulate Control

- (a) In order to comply with Conditions D.1.2 and D.1.3, baghouses BH-06A, CE-05, ML-1, MC-1, BH-2A, CE-20A, CE-21 and cyclones CE-06, CE-07, CE-09, CE-10, CE-10A, CE-11, CE-18, CE-19, CE-19A, CE-19B, CE-20 and CE-44 for particulate control shall be in operation and control emissions from the associated units at all times that the associated units are in operation unless specified otherwise in Condition D.1.2.
- (b) In order to comply with Condition D.1.3, baghouse GR-1 for particulate control shall be in operation and control emissions from EU01, EU02, EU03 and EU04 at all times at least one of the respective units are 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.

D.1.10 VOC Control

Pursuant to 326 IAC 2-2-3, and in order to comply with Conditions D.1.1(b) and D.1.4, the condenser and mineral oil absorber/scrubber system (CE-22) shall be operated at all times that the hexane solvent oil extraction process (EU38) is in operation.

D.1.11 Particulate Control

The cyclone CE-08 for particulate control shall be in operation and control emissions from the pellet mill (EU20) and the pellet cooler (EU21) at all times that the pellet mill (EU20) and the pellet cooler (EU21) are in operation. This source accepted this requirement on a voluntary basis.

Compliance Monitoring Requirements [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]

D.1.12 Visible Emissions Notations

- (a) Visible emission notations of the stack exhausts from baghouses GR-1, BH-06A, CE-05, BH-2A, ML-1, MC-1, RCB, CE-20A and CE-21 and the stack exhausts for cyclones CE-06, CE-07, CE-08, CE-09, CE-10, CE-10A, CE-11 and CE-44 shall be performed once per day during normal daylight operations when exhausting to the atmosphere. A trained employee shall record whether emissions are normal or abnormal.
- (b) Visible emission notations of the stack exhaust from cyclone CE-06 shall be performed once per day during normal operations if the emissions from EU10, EU11 and EU13 bypassed baghouse BH-06A at any time during that day.
- (c) 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.
- (d) 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.
- (e) 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.

- (f) 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.1.13 Parametric Monitoring

- (a) The Permittee shall record the pressure drop across each of the baghouses GR-1, BH-06A, CE-05, BH-2A, ML-1, MC-1, RCB, CE-20A and CE-21 used in conjunction with emission units EU01 through EU05, EU07, EU09, EU16 through EU19, EU22, EU26 through EU32, EU34 through EU37, and EU43, at least once per day when these emission units are in operation. When for any one reading, the pressure drop across the any of the baghouses is outside the normal range of 0.5 and 8.0 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.1.14 Broken or Failed Bag Detection

For single compartment baghouses, failed units and the associated process shall be shut down immediately until the failed units have 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).

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

D.1.15 Cyclone Failure Detection

In the event that cyclone failure has been observed:

Failed units and the associated process will be shut down immediately until the failed units have 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). Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances, shall be considered a deviation from this permit.

D.1.16 Parametric Monitoring

- (a) The Permittee shall record the following for the scrubber (CE-22) used in conjunction with the oil extraction process, identified as EU38, at least once per day when the oil extraction process is in operation:
- (1) the total pressure drop across the scrubber;
 - (2) the inlet gas temperature of the scrubber;
 - (3) the outlet gas flow rate of the scrubber; and

- (4) the mineral oil flow rate in the scrubber.
- (b) When for any one reading:
 - (1) the pressure drop across the scrubber is outside the normal range of 0.2 and 10.0 inches of water or a range established during the latest stack test;
 - (2) the inlet gas temperature is outside the normal range of 45 and 100 degrees F or a range established during the latest stack test;
 - (3) the outlet gas flow rate is outside the normal range of 50 and 250 cubic feet per minute (cfm) or a range established during the latest stack test; or
 - (4) the mineral oil flow rate is outside the normal range of 10.0 and 75.0 gallons per minute (gpm) 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, inlet gas temperature, outlet gas flow rate, or a mineral oil flow rate that is outside the above mentioned ranges, 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.

- (c) The instruments used for determining the pressure, temperature, and flow rates 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.

Record Keeping and Reporting Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-19]

D.1.17 Record Keeping Requirements

- (a) To demonstrate and document compliance with Conditions D.1.1(b) and D.1.4, ADM shall:
 - (1) maintain the records required by 40 CFR Part 63, Subpart GGGG on solvent loss and quantity of oilseed processed; and
 - (2) maintain the records required by 40 CFR Part 63, Subpart GGGG, for any malfunction period as defined in Section 8.0 of Attachment 9 of the Consent Decree.
 - (3) keep daily records in the form of the table included in Section 8.0 of Attachment 9 of the Consent Decree and at the end of this permit that show total solvent losses, solvent losses during malfunction periods, adjusted solvent losses (i.e., total solvent losses minus malfunction losses) monthly and on a twelve-month rolling basis.
- (b) To document compliance with Condition D.1.12, the Permittee shall maintain a daily record of visible emission notations required by that condition. The Permittee shall include in its daily record when a visible emission notation is not taken and the reason for the lack of visible emission notation (e.g. the process did not operate that day).
- (c) To document compliance with Condition D.1.13, the Permittee shall maintain a daily record of the pressure drop across the baghouses required by that condition. The Permittee shall include in its daily record when a pressure drop reading is not taken and the reason for the lack of a pressure drop reading (e.g. the process did not operate that day).

- (d) To document compliance with Condition D.1.16, the Permittee shall maintain records of the scrubber operating parameters required by that condition. The Permittee shall include in its daily record when a reading is not taken and the reason for the lack of a reading (e.g. the process did not operate that day).
- (e) To document compliance with Condition D.1.1(d), the Permittee shall maintain records required by the leak detection and correction program; included as Attachment A to this permit.
- (f) To document compliance with Conditions D.1.1(e) and D.1.2(b), the Permittee shall maintain daily records of the amount of soybeans processed by the plant.
- (g) To document compliance with Condition D.1.7, the Permittee shall maintain records of the results from tests required by that condition.
- (h) To document compliance with Condition D.1.2(c), the Permittee shall maintain records of the number of hours in which the emissions from EU10, EU11 and EU13 are not controlled by baghouse BH-06A.
- (i) To document compliance with Condition D.1.5, the Permittee shall maintain records of the source total soybean meal production and the soybean meal stockpiled into the railcars.
- (j) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

D.1.18 Reporting Requirements

A summary of the information to document compliance with Conditions D.1.1(e), D.1.2(b) and D.1.5 shall be submitted to the address listed in Section C - General Reporting Requirements, of this permit, using the reporting forms located at the end of this permit, or their equivalent, within thirty (30) days after the end of the reporting period being reported. The report submitted by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

SECTION D.2

FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(15)]:

- (oo) Boiler #1, identified as EU39, constructed in 1960, firing natural gas, vegetable oil, No. 2 distillate fuel oil, or blends of vegetable oil and No. 2 distillate fuel oil, exhausting to one (1) stack (EP15);
- (pp) Boiler #3, identified as EU41, constructed in 1992, firing natural gas, vegetable oil, No. 2 distillate fuel oil, or blends of vegetable oil and No. 2 distillate fuel oil, exhausting to one (1) stack (EP17);
- (qq) One (1) Refinery Boiler, identified as EU42, constructed in 2000, firing natural gas or No. 2 distillate fuel oil, exhausting to one (1) stack (EP18);
- (rr) Boiler #4, identified as EU46, constructed in 1995 and approved for installation in 2008, firing natural gas, vegetable oil, No. 2 distillate fuel oil or blends of vegetable oil and No. 2 distillate fuel oil, with emissions uncontrolled, and exhausting to one (1) stack (EP46).

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

Emission Limitations and Standards [326 IAC 2-7-5(1)]

D.2.1 Prevention of Significant Deterioration (PSD) [326 IAC 2-2]

(a) Pursuant to PSD SSM 023-24843-00011, emissions from EU46 are limited as follows:

- (1) The PM emissions shall not exceed 0.070 pounds per MMBtu heat input and 32.7 tons per twelve consecutive month period with compliance determined at the end of each month.
- (2) The PM10 emissions shall not exceed exceed 0.070 pounds per MMBtu heat input and 12.8 tons per twelve consecutive month period with compliance determined at the end of each month.
- (3) The NOx emissions shall not exceed 37.0 tons per twelve consecutive month period with compliance determined at the end of each month.

Compliance with these limits will render the requirements of 326 IAC 2-2 not applicable with respect to PM, PM10 and NOx to the modification described in PSD SSM 023-24843-00011.

(b) Pursuant to PSD SSM 023-24843-00011 and 326 IAC 2-2-3 (BACT):

- (1) VOC emissions from EU46 shall be minimized using good combustion practices;
- (2) VOC emissions shall not exceed 0.0014 pounds per MMBTU when firing distillate oil; and
- (3) VOC emissions shall not exceed 0.0054 pounds per MMBTU when firing natural gas or vegetable oil.

D.2.2 Particulate [326 IAC 6-2-3]

(a) Pursuant to 326 IAC 6-2-3 (Particulate Emission Limitations for Sources of Indirect Heating) the PM emissions from EU39 shall be limited to 0.59 pounds per MMBtu heat input.

This limitation is based on the following equation:

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

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 British thermal units (lb/MMBtu) heat input

Q = Total source maximum operating capacity rating in million British thermal units 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, which-ever is specified in the facility's 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.
Note: This information is a confidential trade secret.

N = Number of stacks in fuel burning operation = 1

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 = 39 ft.

D.2.3 Particulate [326 IAC 6-2-4]

Pursuant to 326 IAC 6-2-4 (Particulate Emission Limitations for Sources of Indirect Heating) the PM emissions from EU41, EU42 and EU46 shall be limited to 0.28, 0.28 and 0.24 pounds per MMBtu heat input, respectively.

These limitations are based on the following equation:

$$Pt = \frac{1.09}{Q^{0.26}}$$

where: Pt = Pounds of particulate matter emitted per million Btu heat input

Q = Total source maximum operating capacity rating in million Btu per hour heat input.

D.2.4 Sulfur Dioxide (SO₂) [326 IAC 7-1.1-1] [326 IAC 12-1]

Pursuant to 326 IAC 7-1.1 (SO₂ Emissions Limitations) and 40 CFR Part 60, Subpart Dc (Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units):

- (a) The SO₂ emissions from each EU41 and EU42 shall not exceed five tenths (0.5) pounds per million Btu heat input; or
- (b) The sulfur content of the fuel oil shall not exceed five-tenths percent (0.5%) by weight. [40 CFR 60.42c(d)]

Pursuant to 40 CFR Part 60, Subpart Dc, the fuel oil sulfur content limit applies at all times,

including periods of startup, shutdown, and malfunction.

D.2.5 Sulfur Dioxide (SO₂) [326 IAC 7-1.1-1] [326 IAC 7-2-1]

Pursuant to 326 IAC 7-1.1 (SO₂ Emissions Limitations) the SO₂ emissions from EU39 and EU46 shall not exceed five tenths (0.5) pound per MMBtu heat input. Pursuant to 326 IAC 7-2-1, compliance shall be demonstrated on a calendar month average.

D.2.6 Distillate Fuel Oil / Vegetable Oil Usage Limitations [326 IAC 1-7] [326 IAC 2-2]

Pursuant to SSM 023-21838-00011, issued December 22, 2005 and PSD SSM 023-24843-00011:

- (a) The usage of vegetable oil in boiler #1 and boiler #3 (EU39 and EU41) shall not exceed a total of 4.10 million gallons per twelve (12) consecutive month period, with compliance determined at the end of each month. When using blends of vegetable oil and distillate fuel oil, only the volume of fuel which is vegetable oil shall count toward the usage limit.
- (b) For boiler #1 and boiler #3 (EU39 and EU41), when burning vegetable oil or blends of vegetable oil and distillate fuel oil, PM₁₀ emissions shall not exceed 0.07 pounds per million Btu heat input. This condition, along with the vegetable oil usage limit, limits increases in PM₁₀ emissions due to vegetable oil combustion to less than 15 tons per year. Compliance with both the emission limit and usage limit shall render 326 IAC 2-2 as not applicable.

D.2.7 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for EU39, EU41, EU42 and EU46.

Compliance Determination Requirements

D.2.8 PM and PM10 Emissions Determination [326 IAC 2-2]

Pursuant PSD SSM 023-24843-00011:

Compliance with Condition D.2.1(a)(1) and (2) shall be determined through stack testing pursuant to Condition D.2.12 and by calculating the PM and PM10 emissions using the following equation:

$$PM/PM10 = [(EF_{\#2oil} \times FU_{\#2oil} \times HC_{\#2oil}) + (EF_{veg} \times FU_{vegl} \times HC_{veg}) + (EF_{gas} \times FU_{gas} \times HC_{gas})] \times 1/2000 \text{ (ton/lb)}$$

Where:

PM/PM10 = The PM/PM10 emissions from EU46 for a calendar month.

EF_{#2oil} = PM or PM10 emission factor for distillate fuel oil combustion (lb/MMBtu). This value is equal to 0.0236 (PM) and 0.0164 (PM10) until the OAQ approves other emission factors.

FU_{#2oil} = The amount of distillate fuel oil combusted by the boiler in a calendar month (gal/month).

HC_{#2oil} = Heating value of distillate fuel oil (MMBtu/gal). This value is equal to 0.14 until the OAQ approves another.

EF_{veg} = PM/PM10 emission factor for vegetable oil combustion (lb/MMBtu). This value is equal to 0.07 until the OAQ approves another.

FU_{veg} = The amount of vegetable oil combusted by the boiler in a calendar month (gal/month).

HC_{veg} = Heating value of vegetable oil (MMBtu/gal).

EF_{gas} = PM/PM10 emission factor for natural gas combustion (lb/MMBtu). This value is equal to 0.0075 until the OAQ approves another.

FU_{gas} = The amount of natural gas combusted by the boiler in a calendar month (MMCF/month).

HC_{gas} = Heating value of natural gas (MMBtu/MMCF). This value is equal to 1020 until the OAQ approves another.

D.2.9 NOx Emissions Determination [326 IAC 2-2]

Pursuant to PSD SSM 023-24843-00011, the Permittee shall use a NOx CEMS to determine compliance with Condition D.2.1(a)(3).

D.2.10 Sulfur Dioxide Emissions and Sulfur Content

Pursuant to 40 CFR Part 60, Subpart Dc, the Permittee shall demonstrate compliance for EU41 and EU42 utilizing one of the following options:

- (a) Providing vendor analysis of fuel oil delivered, if accompanied by a certification; or
- (b) Analyzing the fuel oil sample to determine the sulfur content of the fuel oil via the procedures in 40 CFR 60, Appendix A, Method 19.
 - (1) Fuel oil samples may be collected from the fuel oil tank immediately after the fuel oil tank is filled and before any fuel oil is combusted; and
 - (2) If a partially empty fuel oil tank is refilled, a new sample and analysis would be required upon filling.

D.2.11 Sulfur Dioxide Emissions and Sulfur Content

Compliance shall be determined for EU39 and EU46 utilizing one of the following options.

- (a) Pursuant to 326 IAC 3-7-4, the Permittee shall demonstrate that the sulfur dioxide emissions do not exceed five-tenths (0.5) pounds per million Btu heat input by:
 - (1) Providing vendor analysis of fuel oil delivered, if accompanied by a vendor certification, or;
 - (2) Analyzing the fuel oil sample to determine the sulfur content of the fuel oil via the procedures in 40 CFR 60, Appendix A, Method 19.
 - (A) Fuel oil samples may be collected from the fuel oil tank immediately after the fuel oil tank is filled and before any fuel oil is combusted; and
 - (B) If a partially empty fuel oil tank is refilled, a new sample and analysis would be required upon filling.
- (b) Compliance may also be determined by conducting a stack test for sulfur dioxide emissions using 40 CFR 60, Appendix A, Method 6 in accordance with the procedures in 326 IAC 3-6.

A determination of noncompliance pursuant to any of the methods specified in (a) or (b) above shall not be refuted by evidence of compliance pursuant to the other method.

D.2.12 Testing Requirements [326 IAC 2-7-6(1),(6)][326 IAC 2-1.1-11]

No later than 180 days from the commencement of soybean oil combustion in EU39, EU41, or EU46 and in order to demonstrate compliance with Conditions D.2.1 and D.2.6(b), the Permittee shall perform PM and PM10 testing on EU39, EU41, or EU46 utilizing methods as approved by the Commissioner in accordance with Section C - Performance Testing. The boiler tested shall not be a boiler tested in the previous six (6) years. This test shall be repeated at least once every five (5) years from the date of this valid compliance demonstration.

Compliance Monitoring Requirements [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]

D.2.13 Visible Emissions Notations

- (a) Visible emission notations of the stack exhausts from EU39, EU41, EU42 and EU46 shall be performed once per day, when combusting fuel oil and/or vegetable oil, 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.2.14 Continuous Emissions Monitoring

- (a) Continuous emission monitoring systems (CEMS) for EU46 shall be installed, calibrated, maintained, and operated for measuring NO_x and O₂ which meet all applicable performance specifications of 326 IAC 3-5-2.
- (b) The continuous emission monitoring systems must meet the certification requirements pursuant to 326 IAC 3-5-3.
- (c) If revisions are made to the continuous monitoring standard operating procedures (SOP), the Permittee shall submit updates to the department biennially.
- (d) Relative accuracy tests and routine quarterly audits shall be performed in accordance with the contents of the standard operating procedures (SOP) pursuant to 326 IAC 3-5-5.
- (e) Nothing in this permit shall excuse the Permittee from complying with the requirements to operate a continuous emission monitoring system pursuant to 40 CFR Part 60.

Record Keeping and Reporting Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-19]

D.2.15 Record Keeping Requirements

- (a) To document compliance with Condition D.2.1(a)(3), the Permittee shall maintain records of the amount of fuels combusted by EU46.
- (b) To document compliance with Conditions D.2.4 and D.2.5, the Permittee shall maintain records in accordance with (1) through (7) below. Note that pursuant to 40 CFR Part 60, Subpart Dc, the fuel oil sulfur limit for EU41, EU42 and EU46 applies at all times including periods of startup, shutdown, and malfunction.
 - (1) Calendar dates covered in the compliance determination period;
 - (2) Actual No. 2 fuel oil usage since last compliance determination period and equivalent sulfur dioxide emissions;
 - (3) To certify compliance when burning natural gas only, the Permittee shall maintain records of fuel used.

If the fuel supplier certification is used to demonstrate compliance, when burning distillate fuel oil or blends of distillate fuel oil and vegetable oil and not determining compliance pursuant to 326 IAC 3-7-4, the following, as a minimum, shall be maintained:

- (4) Fuel supplier certifications;
- (5) The name of the fuel supplier;
- (6) The percentage of distillate fuel oil in the fuel; and
- (7) A statement from the fuel supplier that certifies the sulfur content of the fuel oil.

The Permittee shall retain records of all recording/monitoring data and support information for a period of five (5) years, or longer if specified elsewhere in this permit, from the date of the monitoring sample, measurement, or report. Support information includes all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by this permit.

- (c) To document compliance with Condition D.2.8, the Permittee shall maintain monthly records of the PM and PM10 emissions from EU46.
- (d) The Permittee shall maintain records sufficient to verify compliance with the procedures specified in Conditions D.2.10 and D.2.11. Records shall be maintained for a period of five (5) years and shall be made available upon request by IDEM.
- (e) To document compliance with Condition D.2.13, the Permittee shall maintain a record of the visible emission notations required by that condition. The Permittee shall include in its daily record when a visible emission notation is not taken and the reason for the lack of visible emission notation (e.g. the process did not operate that day).
- (f) To document compliance with Condition D.2.14, the Permittee shall maintain a record of the NOx CEMs readings required by that condition.
- (g) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

D.2.16 Reporting Requirements

- (a) The natural gas boiler certification shall be submitted to the address listed in Section C - General Reporting Requirements, of this permit, using the reporting forms located at the end of this permit, or its equivalent, within thirty (30) days after the end of the six (6) month period being reported. The natural gas-fired boiler certification does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

- (b) A quarterly summary of the information to document compliance with Conditions D.2.1 and D.2.6 shall be submitted to the address listed in Section C - General Reporting Requirements, of this permit, using the reporting forms located at the end of this permit, or their equivalent, within thirty (30) days after the end of the six (6) month period being reported. The report submitted by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

SECTION D.3 FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(15)]:

- (a) Degreasing operations that do not exceed 145 gallons per 12 months, except if subject to 326 IAC 20-6: One (1) parts washer, constructed after 1990. [326 IAC 8-3-2][326 IAC 8-3-5]
- (b) The following equipment related to manufacturing activities not resulting in the emission of HAPs: brazing equipment, cutting torches, soldering equipment, welding equipment. [326 IAC 6-3-2]
- (c) The following activities with emissions equal to or less than insignificant thresholds:
 - (1) one (1) silica clay storage silo, identified as EU47, constructed in 2002, with particulate emissions controlled by a baghouse (RC-2), exhausting through one (1) stack (EP19). [326 IAC 6-3-2][326 IAC 2-2]
 - (2) one (1) cooling tower, identified as EU45, with a design recirculation rate of 1,500 gal/min. [326 IAC 2-2]

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

Emission Limitations and Standards [326 IAC 2-7-5(1)]

D.3.1 Volatile Organic Compounds (VOC) [326 IAC 8-3-2]

Pursuant to 326 IAC 8-3-2 (Cold Cleaner Operations), for cold cleaning operations constructed after January 1, 1980, the Permittee shall:

- (a) Equip the cleaner with a cover;
- (b) Equip the cleaner with a facility for draining cleaned parts;
- (c) Close the degreaser cover whenever parts are not being handled in the cleaner;
- (d) Drain cleaned parts for at least fifteen (15) seconds or until dripping ceases;
- (e) Provide a permanent, conspicuous label summarizing the operation requirements;
- (f) Store waste solvent only in covered containers and not dispose of waste solvent or transfer it to another party, in such a manner that greater than twenty percent (20%) of the waste solvent (by weight) can evaporate into the atmosphere.

D.3.2 Volatile Organic Compounds (VOC) [326 8-3-5]

- (a) Pursuant to 326 IAC 8-3-5(a) (Cold Cleaner Degreaser Operation and Control), for cold cleaner degreaser operations without remote solvent reservoirs constructed after July 1, 1990, the Permittee shall ensure that the following control equipment requirements are met:
 - (1) Equip the degreaser with a cover. The cover must be designed so that it can be easily operated with one (1) hand if:
 - (A) The solvent volatility is greater than two (2) kiloPascals (fifteen (15) millimeters of mercury or three-tenths (0.3) pounds per square inch) measured at thirty-eight degrees Celsius (38°C) (one hundred degrees Fahrenheit (100°F));

- (B) The solvent is agitated; or
 - (C) The solvent is heated.
- (2) Equip the degreaser with a facility for draining cleaned articles. If the solvent volatility is greater than four and three-tenths (4.3) kiloPascals (thirty-two (32) millimeters of mercury or six-tenths (0.6) pounds per square inch) measured at thirty-eight degrees Celsius (38^oC) (one hundred degrees Fahrenheit (100^oF)), then the drainage facility must be internal such that articles are enclosed under the cover while draining. The drainage facility may be external for applications where an internal type cannot fit into the cleaning system.
 - (3) Provide a permanent, conspicuous label which lists the operating requirements outlined in subsection (b).
 - (4) The solvent spray, if used, must be a solid, fluid stream and shall be applied at a pressure which does not cause excessive splashing.
 - (5) Equip the degreaser with one (1) of the following control devices if the solvent volatility is greater than four and three-tenths (4.3) kiloPascals (thirty-two (32) millimeters of mercury or six-tenths (0.6) pounds per square inch) measured at thirty-eight degrees Celsius (38^oC) (one hundred degrees Fahrenheit (100^oF)), or if the solvent is heated to a temperature greater than forty-eight and nine-tenths degrees Celsius (48.9^oC) (one hundred twenty degrees Fahrenheit (120^oF)):
 - (A) A freeboard that attains a freeboard ratio of seventy-five hundredths (0.75) or greater.
 - (B) A water cover when solvent is used is insoluble in, and heavier than, water.
 - (C) Other systems of demonstrated equivalent control such as a refrigerated chiller or carbon adsorption. Such systems shall be submitted to the U.S. EPA as a SIP revision.
- (b) Pursuant to 326 IAC 8-3-5(b) (Cold Cleaner Degreaser Operation and Control), the owner or operator of a cold cleaning facility construction of which commenced after July 1, 1990, shall ensure that the following operating requirements are met:
 - (1) Close the cover whenever articles are not being handled in the degreaser.
 - (2) Drain cleaned articles for at least fifteen (15) seconds or until dripping ceases.
 - (3) Store waste solvent only in covered containers and prohibit the disposal or transfer of waste solvent in any manner in which greater than twenty percent (20%) of the waste solvent by weight could evaporate.

D.3.3 Particulate [326 IAC 6-3-2]

Pursuant to 326 IAC 6-3-2(e)(2) (Particulate Emission Limitations for Manufacturing Processes), 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. This applies to the brazing equipment, cutting torches, soldering equipment, welding equipment and the silica clay storage silo.

D.3.4 Particulate [326 IAC 2-2]

Pursuant to PSD SSM 023-24843-00011 and in order to render the requirements of 326 IAC 2-2 not applicable to the modification permitted by that approval, the PM and PM10 emissions from:

- (a) The silica clay storage silo (EU47) shall be less than 0.571 and 0.40 pounds per ton of clay received, respectively.
- (b) The cooling tower (EU45) shall be less than 0.03 pounds per hour.

D.3.5 Record Keeping Requirements

- (a) To document compliance with Condition D.3.4, the Permittee shall maintain records of the clay received by EU47.
- (b) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

SECTION E.1 FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(15)]:

Boiler #4 (EU46). Full facility description in Section D.2.

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

E.1.1 General Provisions Relating to New Source Performance Standards [326 IAC 12-1] [40 CFR Part 60, Subpart A]

- (a) The provisions of 40 CFR 60, Subpart A - General Provisions, which are incorporated by reference in 326 IAC 12-1, apply to the facilities described in this Section E.1 except when otherwise specified in 40 CFR 60, Subpart Db.
- (b) Pursuant to 40 CFR 60.19, the Permittee shall submit all required notifications and reports to:

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

E.1.2 New Source Performance Standards (NSPS) for Industrial-Commercial-Institutional Steam Generating Units [40 CFR Part 60, Subpart Db] [326 IAC 12]

The Permittee shall comply with the following provisions of 40 CFR Part 60, Subpart Db (New Source Performance Standards (NSPS) for Industrial-Commercial-Institutional Steam Generating Units) (included as Attachment B of this permit) which are incorporated by reference as 326 IAC 12:

- (1) 40 CFR 60.40b (a)
- (2) 40 CFR 60.41b
- (3) 40 CFR 60.42b (a), (e), (g) and (j)
- (4) 40 CFR 60.43b (f) and (g)
- (5) 40 CFR 60.44b (a)(1)(ii), (b), (c), (e), (f), (h) and (i)
- (6) 40 CFR 60.45b (b), (j) and (k)
- (7) 40 CFR 60.46b (a), (c), (d)(7), and (e)
- (8) 40 CFR 60.47b (f)
- (9) 40 CFR 60.48b (a) through (g), (i), (j)(2), (j)(4) and (j)(5)
- (10) 40 CFR 60.49b (b), (c), (d), (f) through (j), (o) and (r)

SECTION E.2

FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(15)]

Facilities EU01, EU04, EU07 and EU09. Full facility descriptions in Section D.1.

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

E.2.1 General Provisions Relating to New Source Performance Standards [326 IAC 12-1] [40 CFR Part 60, Subpart A]

- (a) The provisions of 40 CFR 60, Subpart A - General Provisions, which are incorporated by reference in 326 IAC 12-1, apply to the facilities described in this Section E.2 except when otherwise specified in 40 CFR 60, Subpart DD.
- (b) Pursuant to 40 CFR 60.19, the Permittee shall submit all required notifications and reports to:

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

E.2.2 New Source Performance Standards (NSPS) for Grain Elevators [40 CFR Part 60, Subpart DD] [326 IAC 12]

- (a) The Permittee shall comply with the following provisions of 40 CFR Part 60, Subpart DD (New Source Performance Standards (NSPS) for Grain Elevators) (included as Attachment C of this permit) which are incorporated by reference as 326 IAC 12:
 - (1) 40 CFR 60.300
 - (2) 40 CFR 60.301
 - (3) 40 CFR 60.302 (b)(1), (b)(2), and (c)(2)
 - (4) 40 CFR 60.303
 - (5) 40 CFR 60.304
- (b) This NSPS, Subpart DD is not applicable to the affected truck unloading station, truck loading station, railcar loading station, and railcar unloading station when handling the stockpiled soybean meal. This rule is only applicable to these equipment when handling soybeans.

SECTION E.3 FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(15)]

The vegetable oil production process as defined in 40 CFR 63.2872.

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

E.3.1 General Provisions Relating to National Emission Standards for Hazardous Air Pollutants [326 IAC 20-1] [40 CFR Part 63, Subpart A]

- (a) The provisions of 40 CFR Part 63, Subpart A (General Provisions), which are incorporated by reference in 326 IAC 20-1, apply to the facilities described in this Section E.3 except when otherwise specified in 40 CFR Part 63, Subpart GGGG.
- (b) Pursuant to 40 CFR 63.9, the Permittee shall submit all required notifications and reports to:

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

E.3.2 National Emission Standards for Hazardous Air Pollutants (NESHAPs): Solvent Extraction for Vegetable Oil Production [40 CFR Part 63, Subpart GGGG] [326 IAC 20]

The Permittee shall comply with the following provisions of 40 CFR Part 63, Subpart GGGG (National Emission Standards for Hazardous Air Pollutants (NESHAPs): Solvent Extraction for Vegetable Oil Production (included as Attachment D of this permit) which are incorporated by reference as 326 IAC 20:

- (1) 40 CFR 63.2832 (a)
- (2) 40 CFR 63.2833
- (3) 40 CFR 63.2834 (a)
- (4) 40 CFR 63.2840 (a), (b)(1) through (b)(5), and (e) through (f)
- (5) 40 CFR 63.2850 (a), (b), (d) (e)(1)(i), (e)(1)(iii) and (e)(2)
- (6) 40 CFR 63.2851
- (7) 40 CFR 63.2852
- (8) 40 CFR 63.2853
- (9) 40 CFR 63.2854
- (10) 40 CFR 63.2855
- (11) 40 CFR 63.2860 (a), (c) and (d)
- (12) 40 CFR 63.2861
- (13) 40 CFR 63.2862
- (14) 40 CFR 63.2863
- (15) 40 CFR 63.2870
- (16) 40 CFR 63.2871
- (17) 40 CFR 63.2872
- (18) Table 1 of 63.2833
- (19) Item (a) of Table 1 of 63.2834
- (20) Item (ix) of Table 1 of 63.2840
- (21) Table 1 of 63.2850
- (22) Items (a) and (c) of Table 2 of 63.2850
- (23) Table 1 of 63.2853
- (24) Table 1 of 63.2870

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT OFFICE OF AIR QUALITY

PART 70 OPERATING PERMIT CERTIFICATION

Source Name: Archer Daniels Midland Company
Source Address: 2191 West County Road 0 N/S, Frankfort, Indiana 46041
Mailing Address: P.O. Box 249, Frankfort, IN 46041
Part 70 Permit No.: T023-6066-00011

**This certification shall be included when submitting monitoring, testing reports/results
or other documents as required by this permit.**

Please check what document is being certified:

- Annual Compliance Certification Letter
- Test Result (specify)
- Report (specify)
- Notification (specify)
- Affidavit (specify)
- Other (specify)

I certify that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.

Signature:

Printed Name:

Title/Position:

Phone:

Date:

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE BRANCH
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, IN 46204-2251
Phone: 317-233-0178
Fax: 317-233-6865**

**PART 70 OPERATING PERMIT
EMERGENCY OCCURRENCE REPORT**

Source Name: Archer Daniels Midland Company
Source Address: 2191 West County Road 0 N/S, Frankfort, Indiana 46041
Mailing Address: P.O. Box 249, Frankfort, IN 46041
Part 70 Permit No.: T023-6066-00011

This form consists of 2 pages

Page 1 of 2

- | | |
|--------------------------|--|
| <input type="checkbox"/> | This is an emergency as defined in 326 IAC 2-7-1(12) |
| X | The Permittee must notify the Office of Air Quality (OAQ), within four (4) business hours (1-800-451-6027 or 317-233-0178, ask for Compliance Section); and |
| X | The Permittee must submit notice in writing or by facsimile within two (2) working days (Facsimile Number: 317-233-6865), and follow the other requirements of 326 IAC 2-7-16. |

If any of the following are not applicable, mark N/A

Facility/Equipment/Operation:
Control Equipment:
Permit Condition or Operation Limitation in Permit:
Description of the Emergency:
Describe the cause of the Emergency:

If any of the following are not applicable, mark N/A

Page 2 of 2

Date/Time Emergency started:
Date/Time Emergency was corrected:
Was the facility being properly operated at the time of the emergency? Y N
Type of Pollutants Emitted: TSP, PM-10, SO ₂ , VOC, NO _x , CO, Pb, other:
Estimated amount of pollutant(s) emitted during emergency:
Describe the steps taken to mitigate the problem:
Describe the corrective actions/response steps taken:
Describe the measures taken to minimize emissions:
If applicable, describe the reasons why continued operation of the facilities are necessary to prevent imminent injury to persons, severe damage to equipment, substantial loss of capital investment, or loss of product or raw materials of substantial economic value:

Form Completed by: _____

Title / Position: _____

Date: _____

Phone: _____

A certification is not required for this report.

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE DATA SECTION**

**PART 70 OPERATING PERMIT
SEMI-ANNUAL NATURAL GAS FIRED BOILER CERTIFICATION**

Source Name: Archer Daniels Midland Company
Source Address: 2191 West County Road 0 N/S, Frankfort, Indiana 46041
Mailing Address: P.O. Box 249, Frankfort, IN 46041
Part 70 Permit No.: T023-6066-00011

Natural Gas Only
 Alternate Fuel burned
From: _____ To: _____

I certify that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.

Signature:

Printed Name:

Title/Position:

Phone:

Date:

A certification by the responsible official as defined by 326 IAC 2-7-1(34) is required for this report.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT OFFICE OF AIR QUALITY COMPLIANCE DATA SECTION

Part 70 Quarterly Report

Source Name: Archer Daniels Midland Company
 Source Address: 2191 West County Road 0 N/S, Frankfort, Indiana 46041
 Mailing Address: P.O. Box 249, Frankfort, IN 46041
 Part 70 Permit No.: T023-6066-00011
 Facility: Boiler #2 (EU40)
 Parameter: SO₂ emissions
 Limit: the usage of No. 2 fuel oil with a sulfur content of 0.3% in the boiler #2 (EU40) shall not exceed 1.17 million gallons per twelve (12) consecutive month period, with compliance determined at the end of each month, so that SO₂ emissions are limited to less than 25 tons per year.

QUARTER: _____ YEAR: _____

Month	Column 1	Column 2	Column 1 + Column 2
	No. 2 Fuel Oil Usage This Month (gallons)	No. 2 Fuel Oil Usage Previous 11 Months (gallons)	No. 2 Fuel Oil Usage 12 Month Total Usage (gallons)
Month 1			
Month 2			
Month 3			

No deviation occurred in this quarter.

Deviation/s occurred in this quarter.

Deviation has been reported on:

Submitted by: _____

Title / Position: _____

Signature: _____

Date: _____

Phone: _____

Attach a signed certification to complete this report.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT OFFICE OF AIR QUALITY COMPLIANCE DATA SECTION

Part 70 Quarterly Report

Source Name: Archer Daniels Midland Company
 Source Address: 2191 West County Road 0 N/S, Frankfort, Indiana 46041
 Mailing Address: P.O. Box 249, Frankfort, IN 46041
 Part 70 Permit No.: T023-6066-00011
 Facility: Boiler #1(EU39) and Boiler #3 (EU41)
 Parameter: PM₁₀ emissions
 Limit: The usage of vegetable oil in boiler #1 and boiler #3 shall not exceed a total of 4.10 million gallons per twelve (12) consecutive month period, with compliance determined at the end of each month.

QUARTER: _____ YEAR: _____

Month	Column 1	Column 2	Column 1 + Column 2
	Vegetable Oil Usage This Month (gallons)	Vegetable Oil Usage Previous 11 Months (gallons)	Vegetable Oil Usage 12 Month Total Usage (gallons)
Month 1			
Month 2			
Month 3			

No deviation occurred in this quarter.

Deviation/s occurred in this quarter.
 Deviation has been reported on:

Submitted by: _____

Title / Position: _____

Signature: _____

Date: _____

Phone: _____

Attach a signed certification to complete this report.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT OFFICE OF AIR QUALITY COMPLIANCE DATA SECTION

Part 70 Quarterly Report

Source Name: Archer Daniels Midland Company
 Source Address: 2191 West County Road 0 N/S, Frankfort, IN 46041
 Mailing Address: P.O. Box 249, Frankfort, IN 46041
 Part 70 Permit No.: T023-6066-00011
 Facility: Entire source
 Limit: The amount of soybeans processed by the source shall not exceed 1,314,000 tons twelve consecutive month period with compliance determined at the end of each month.

QUARTER : _____ YEAR: _____

Month	Soybeans processed (tons)	Soybeans processed (tons)	Soybeans processed (tons)
	This Month	Previous 11 Months	12 Month Total
Month 1			
Month 2			
Month 3			

No deviation occurred in this quarter.

Deviation/s occurred in this quarter.
 Deviation has been reported on:

Submitted by:
 Title / Position:
 Signature:
 Date:
 Phone:

Attach a signed certification to complete this report.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT OFFICE OF AIR QUALITY COMPLIANCE DATA SECTION

Part 70 Quarterly Report

Source Name: Archer Daniels Midland Company
 Source Address: 2191 West County Road 0 N/S, Frankfort, IN 46041
 Mailing Address: P.O. Box 249, Frankfort, IN 46041
 Part 70 Permit No.: T023-6066-00011
 Facility: EU46
 Parameter: PM emissions
 Limit: PM emissions shall not exceed 32.7 tons per twelve consecutive month period with compliance determined at the end of each month.

QUARTER : _____ YEAR: _____

Month	PM Emissions	PM Emissions	PM Emissions
	This Month	Previous 11 Months	12 Month Total
Month 1			
Month 2			
Month 3			

No deviation occurred in this quarter.

Deviation/s occurred in this quarter.
 Deviation has been reported on:

Submitted by:
 Title / Position:
 Signature:
 Date:
 Phone:

Attach a signed certification to complete this report.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT OFFICE OF AIR QUALITY COMPLIANCE DATA SECTION

Part 70 Quarterly Report

Source Name: Archer Daniels Midland Company
Source Address: 2191 West County Road 0 N/S, Frankfort, IN 46041
Mailing Address: P.O. Box 249, Frankfort, IN 46041
Part 70 Permit No.: T023-6066-00011
Facility: EU46
Parameter: PM10 emissions
Limit: PM10 emissions shall not exceed 12.8 tons per twelve consecutive month period with compliance determined at the end of each month.

QUARTER : _____ YEAR: _____

Month	PM10 Emissions	PM10 Emissions	PM10 Emissions
	This Month	Previous 11 Months	12 Month Total
Month 1			
Month 2			
Month 3			

No deviation occurred in this quarter.

Deviation/s occurred in this quarter.
Deviation has been reported on:

Submitted by:
Title / Position:
Signature:
Date:
Phone:

Attach a signed certification to complete this report.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT OFFICE OF AIR QUALITY COMPLIANCE DATA SECTION

Part 70 Quarterly Report

Source Name: Archer Daniels Midland Company
Source Address: 2191 West County Road 0 N/S, Frankfort, IN 46041
Mailing Address: P.O. Box 249, Frankfort, IN 46041
Part 70 Permit No.: T023-6066-00011
Facility: EU46
Parameter: NOx emissions
Limit: NOx emissions shall not exceed 37.0 tons per twelve consecutive month period with compliance determined at the end of each month.

QUARTER : _____ YEAR: _____

Month	NOx Emissions	NOx Emissions	NOx Emissions
	This Month	Previous 11 Months	12 Month Total
Month 1			
Month 2			
Month 3			

No deviation occurred in this quarter.

Deviation/s occurred in this quarter.
Deviation has been reported on:

Submitted by:
Title / Position:
Signature:
Date:
Phone:

Attach a signed certification to complete this report.

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF AIR QUALITY
 COMPLIANCE DATA SECTION**

Part 70 Quarterly Report

Source Name: Archer Daniels Midland Company
 Source Address: 2191 West County Road 0 N/S, Frankfort, IN 46041
 Mailing Address: P.O. Box 249, Frankfort, IN 46041
 Part 70 Permit No.: T023-6066-00011
 Facility: Entire Source and Railcars
 Parameter: PM and PM10 emissions
 Limit: The source soybean meal production shall be limited to a total of 1,143,180 tons per twelve (12) consecutive month period, with compliance at the end of each month.

The soybean meal stockpiled into the railcars during plant's shutdown shall be limited to 100,000 tons per twelve (12) consecutive month period, with compliance at the end of each month. The soybean meal stockpiled shall be counted toward the source total soybean meal production limit of 1,143,180 tons per twelve (12) consecutive month period.

Quarter: _____ Year: _____

Month	1	2	Total Soybean Meal Produced (1 +2) This Month	1	2	Total Soybean Meal Produced (1 +2) Previous 11 Months	1	2	Total Soybean Meal Produced (1 +2) 12 months Total
	Soybean Meal Stockpiled (tons) This Month	Soybean Meal Produced (tons) This Month		Soybean Meal Stockpiled (tons) Previous 11 Months	Soybean Meal Produced (tons) Previous 11 Months		Soybean Meal Stockpiled (tons) 12 months Total	Soybean Meal Produced (tons) 12 months Total	
Month 1									
Month 2									
Month 3									

- No deviation occurred in this quarter.
- Deviation/s occurred in this quarter.
 Deviation has been reported on:

Submitted by: _____
 Title / Position: _____
 Signature: _____
 Date: _____
 Phone: _____

Attach a signed certification to complete this report.

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF AIR QUALITY
 COMPLIANCE DATA SECTION**

**PART 70 OPERATING PERMIT
 QUARTERLY DEVIATION AND COMPLIANCE MONITORING REPORT**

Source Name: Archer Daniels Midland Company
 Source Address: 2191 West County Road 0 N/S, Frankfort, Indiana 46041
 Mailing Address: P.O. Box 249, Frankfort, IN 46041
 Part 70 Permit No.: T023-6066-00011

Months: _____ to _____ Year: _____

This report shall be submitted quarterly based on a calendar year. Any deviation from the requirements, the date(s) of each deviation, the probable cause of the deviation, and the response steps taken must be reported. A deviation required to be reported pursuant to an applicable requirement that exists independent of the permit, shall be reported according to the schedule stated in the applicable requirement and does not need to be included in this report. Additional pages may be attached if necessary. If no deviations occurred, please specify in the box marked "No deviations occurred this reporting period".	
<input type="checkbox"/> NO DEVIATIONS OCCURRED THIS REPORTING PERIOD.	
<input type="checkbox"/> THE FOLLOWING DEVIATIONS OCCURRED THIS REPORTING PERIOD	
Permit Requirement (specify permit condition #)	
Date of Deviation:	Duration of Deviation:
Number of Deviations:	
Probable Cause of Deviation:	
Response Steps Taken:	
Permit Requirement (specify permit condition #)	
Date of Deviation:	Duration of Deviation:
Number of Deviations:	
Probable Cause of Deviation:	
Response Steps Taken:	

Permit Requirement (specify permit condition #)	
Date of Deviation:	Duration of Deviation:
Number of Deviations:	
Probable Cause of Deviation:	
Response Steps Taken:	
Permit Requirement (specify permit condition #)	
Date of Deviation:	Duration of Deviation:
Number of Deviations:	
Probable Cause of Deviation:	
Response Steps Taken:	
Permit Requirement (specify permit condition #)	
Date of Deviation:	Duration of Deviation:
Number of Deviations:	
Probable Cause of Deviation:	
Response Steps Taken:	

Form Completed By: _____

Title/Position: _____

Date: _____

Phone: _____

Attach a signed certification to complete this report.

Indiana Department of Environmental Management Office of Air Quality

Technical Support Document (TSD) for a Part 70 Minor Source Modification and a Significant Permit Modification

Source Description and Location

Source Name:	Archer Daniels Midland Company
Source Location:	2191 West County Road 0 N/S, Frankfort, Indiana 46041
County:	Clinton
SIC Code:	2075
Part 70 Operation Permit No.:	T 023-6066-00011
Operation Permit Issuance Date:	July 13, 2004
Minor Source Modification No.:	023-26411-00011
Significant Permit Modification No.:	023-26542-00011
Permit Reviewer:	Aida De Guzman

Existing Approvals

The source was issued Part 70 Operating Permit No. 023-6066-00011 on July 13, 2004. The source has since received the following approvals:

- (a) First Minor Permit Modification No. 023-19883-00011, issued on February 17, 2005;
- (b) First Administrative Amendment No. 023-21789-00011, issued on December 16, 2005;
- (c) First Significant Permit Modification No. 023-21909-00011, issued on January 19, 2006; and
- (d) Second Significant Permit Modification No. 023-25870-00011, issued on May 7, 2008.

County Attainment Status

The source is located in Clinton County.

Pollutant	Designation
SO ₂	Better than national standards.
CO	Unclassifiable or attainment effective November 15, 1990.
O ₃	Unclassifiable or attainment effective June 15, 2004, for the 8-hour ozone standard. ¹
PM ₁₀	Unclassifiable effective November 15, 1990.
NO ₂	Cannot be classified or better than national standards.
Pb	Not designated.
¹ Unclassifiable or attainment effective October 18, 2000, for the 1-hour ozone standard which was revoked effective June 15, 2005. Unclassifiable or attainment effective April 5, 2005, for PM2.5.	

- (a) Ozone Standards
 - (1) 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.

- (2) On September 6, 2007, the Indiana Air Pollution Control Board finalized a temporary emergency rule to re-designate Allen, Clark, Elkhart, Floyd, LaPorte, St. Joseph as attainment for the 8-hour ozone standard.
 - (3) On November 9, 2007, the Indiana Air Pollution Control Board finalized a temporary emergency rule to re-designate Boone, Clark, Elkhart, Floyd, LaPorte, Hamilton, Hancock, Hendricks, Johnson, Madison, Marion, Morgan, Shelby, and St. Joseph as attainment for the 8-hour ozone standard.
 - (4) Volatile organic compounds (VOC) and nitrogen oxides (NO_x) 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_x emissions are considered when evaluating the rule applicability relating to ozone. Clinton County has been designated as attainment or unclassifiable for ozone. Therefore, VOC and NO_x emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.
- (b) Clinton County has been classified as attainment for PM_{2.5}. U.S. EPA has not yet established the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2 for PM 2.5 emissions. Therefore, until the U.S.EPA adopts specific provisions for PSD review for PM_{2.5} emissions, it has directed states to regulate PM₁₀ emissions as a surrogate for PM_{2.5} emissions.
 - (c) Clinton County has been classified as attainment or unclassifiable for all other criteria pollutants. Therefore, these emissions were reviewed pursuant to the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)).
 - (d) Fugitive Emissions
Since this type of operation is not one of the twenty-eight (28) listed source categories under 326 IAC 2-2, fugitive emissions are not counted toward the determination of PSD applicability.

Source Status

The table below summarizes the potential to emit of the entire source, prior to the proposed modification, after consideration of all enforceable limits established in the effective permits:

Pollutant	Emissions (ton/yr)
PM	> 250
PM ₁₀	> 250
SO ₂	> 250
VOC	> 250
CO	> 100 but < 250
NO _x	> 100 but < 250

This existing source is a major stationary source, under PSD (326 IAC 2-2), because a regulated pollutant is emitted at a rate of 250 tons per year or more, and it is not one of the twenty-eight (28) listed source categories, as specified in 326 IAC 2-2-1(gg)(1).

The table below summarizes the potential to emit HAPs for the entire source, prior to the proposed modification, after consideration of all enforceable limits established in the effective permits:

HAPs	Potential To Emit (ton/yr)
Hexane	> 10
Formaldehyde	< 10
Selenium	< 10
Manganese	< 10
Total HAPs	> 25

This existing source is a major source of HAPs, as defined in 40 CFR 63.41, because HAP emissions are greater than ten (10) tons per year for a single HAP or greater than twenty-five (25) tons per year for a combination of HAPs). Therefore, this source is a major source under Section 112 of the Clean Air Act (CAA).

Actual Emissions

The following table shows the actual emissions from the source. This information reflects the 2006 OAQ emission data.

Pollutant	Actual Emissions (ton/yr)
PM	52.0
PM ₁₀	52.0
SO ₂	0.0
VOC	358.0
CO	35.0
NO _x	42.0
HAP	not reported
Total HAPs	not reported

Description of Proposed Modification

The Office of Air Quality (OAQ) has reviewed source modification and permit modification applications, submitted by Archer Daniels Midland Company (ADM) on April 11, 2008, relating to the following change in the operation:

The stockpiling of soybean meal in railcars during plant shutdowns at a limited throughput of 100,000 tons/year utilizing existing grain receiving/unloading pits EU01 and EU02, elevator leg EU03, conveyor EU28A, storage tanks EU30, surge tanks EU31, mixing conveyor EU33 and rail and truck meal loadout EU34 and EU35.

When soybean meal is delivered by trucks, the stockpiled soybean meal from the railcars will be unloaded back into the plant through the existing grain receiving/unloading pits EU01 and EU02, through the elevator leg EU03, and conveyor EU28A, then into the meal storage tanks EU30. Then the soybean meal will be conveyed back into the surge tanks EU31 and through the mixing conveyor EU33 and finally into the truck meal loadout EU34. This operation does not occur during normal operations and is an extra step in the process.

The source has a maximum soybean meal production capability of 1,143,180 tons per year as permitted in PSD Permit No. 023-24843-00011, issued on March 19, 2008.

Enforcement Issues

There are no pending enforcement actions related to this modification.

Emission Calculations

See Appendix A of this Technical Support Document for detailed emission calculations.

Permit Level Determination – Part 70

Pursuant to 326 IAC 2-1.1-1(16), Potential to Emit is defined as “the maximum capacity of a stationary source or emission 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, IDEM, or the appropriate local air pollution control agency.”

The following table is used to determine the appropriate permit level under 326 IAC 2-7-10.5. It has been determined that the control units for the affected existing facilities are federally enforceable. Therefore, this table reflects the PTE after controls.

Pollutant	Potential To Emit (ton/yr)
PM	13.39
PM ₁₀	6.81
PM _{2.5}	1.15
SO ₂	0.0
VOC	0.0
CO	0.0
NO _x	0.0

- (a) This source modification is subject to a minor source modification in accordance with 326 IAC 2-7-10.5(d)(3) because the PTE of PM or PM 10 are less than 25 tons per year and equal to or greater than 5 tons per year.
- (b) The modification will be incorporated into the Part 70 Operating Permit through a significant permit modification issued pursuant to 326 IAC 2-7-12(d), since the modification involves adding new permit terms or conditions.

Permit Level Determination – PSD

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

Potential to Emit (tons/year)						
Process / Emission Unit	PM	PM₁₀	SO₂	VOC	CO	NO_x
Modification (Baseline Actual to Projected Actual):						
Truck/Rail conveying (EU01, EU02)	0.126	0.028	-	-	-	-
Truck/Rail conveying (EU01, EU02) Fugitive	1.402	0.313	-	-	-	-
Elevator Leg (EU03)	0.100	0.056	-	-	-	-
Meal Conveyor to Storage Tanks	0.073	0.041	-	-	-	-
Mixing Conveyor (EU33)	0.073	0.041	-	-	-	-
Meal Storage Tanks (EU30)	0.030	0.008	-	-	-	-
Meal Surge Tank (EU31)	0.030	0.008	-	-	-	-
Truck/Rail Meal Loadout (EU34 and EU35)	0.341	0.222	-	-	-	-
Truck/Rail Meal Loadout (EU34 and EU35) Fugitive	3.517	2.286	-	-	-	-
Projected Actual Emissions Increase	5.692	3.00	-	-	-	-
Excluded Emissions Due to CHA	1.39	0.60	-	-	-	-
Net Emissions Increase	4.30	2.4	-	-	-	-
Significant Levels	25	15	40	40	100	40

CHA - Could have Accommodated (see detailed calculations on Page 3 of 3 Appendix A).

The source requested that the soybean meal stockpiled into the railcars be limited to 100,000 tons/yr and counted toward the source total soybean meal permitted production rate, now limit of 1,143,180 tons/yr in order to keep the projected actual emissions from the modification below the PSD significant levels. Therefore, this modification is not subject to the requirements of 326 IAC 2-2 (PSD).

Federal Rule Applicability Determination

(a) New Source Performance Standards (NSPS), 326 IAC 12 and 40 CFR Part 60:

(1) 326 IAC 12 and 40 CFR Part 60, Subpart DD (New Source Performance Standards (NSPS) for Grain Elevators)

This rule is not applicable to the affected truck unloading station, truck loading station, railcar loading station, and railcar unloading station when handling the stockpiled soybean meal. This rule is only applicable to these equipment when handling soybeans.

(b) National Emission Standards for Hazardous Air Pollutants (NESHAPs), (326 IAC 14, 326 IAC 20 and 40 CFR Part 63):

There are no National Emission Standards for Hazardous Air Pollutants (NESHAPs) applicable to this proposed modification.

(c) Compliance Assurance Monitoring (CAM), 40 CFR Part 64:

Compliance Assurance Monitoring (CAM) is applicable to new or modified emission units that involve a pollutant-specific emission unit and meet the following criteria:

- (1) has a potential to emit before controls equal to or greater than the major source threshold for the pollutant involved;
- (2) is subject to an emission limitation or standard for that pollutant; and
- (3) uses a control device, as defined in 40 CFR 64.1, to comply with that emission limitation or standard.

The following table is used to identify the applicability of each of the criteria, under 40 CFR 64.1, to each new or modified emission unit involved:

Emission Unit	Control Device Used	Emission Limitation (Y/N)	Uncontrolled PTE (tons/year)	Controlled PTE (tons/year)	Major Source Threshold (tons/year)	CAM Applicable (Y/N)	Large Unit (Y/N)
Truck/Rail Meal Loadout	baghouse	Y	177.89 PM	0.20 PM	100	N **	-
		Y	115.30 PM10	0.59 PM10	100	N **	-

**The CAM is not applicable to the Truck/Rail Meal Loadout due to this modification because the soybean meal stockpiled limit will be counted toward the soybean meal production rate in PSD Permit No. 023-24843-00011, issued on March 19, 2008. The soybean meal production rate will be made federally enforceable in this SPM No. 023-26542-00011. This soybean meal production rate, now a limit is sufficient to comply with the applicable rules and it will not be increased due to this modification. The CAM applicability determination made in PSD Permit No. 023-24843-00011 for this process stays the same.

State Rule Applicability Determination

The following state rules are applicable to the source due to the modification:

- (a) 326 IAC 2-2, Prevention of Significant Deterioration (PSD)
 PSD applicability is discussed under the Permit Level Determination – PSD Section
- (b) 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes)
 Pursuant to 326 IAC 6-3-2, the particulate emissions from the following processes when soybean meal is stockpiled in railcars during plant's shutdowns will remain the same as the current particulate limits as follows:

Emission Unit ID	Process Weight Rate (tons/hr)	Particulate Emissions (lbs/hr)
Rail/Truck Receiving (EU01 and EU02)	400	66.3
Grain/Meal Elevator (EU03)	720	73.4
Conveyor to Meal Storage Tanks (EU28A)	90	50.0
Meal Storage Tanks (EU30)	90	50.0
Meal Surge Tanks (EU31)	300	63.0
Rail/Truck Meal Loadout (EU34 and EU35)	250	61.0

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 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 source is in compliance with 326 IAC 6-3-2 even without the operation of the control.

Compliance Determination and Monitoring Requirements

Permits issued under 326 IAC 2-7 are required to ensure that sources can demonstrate compliance with all applicable state and federal rules on a continuous basis. All state and federal rules contain compliance provisions; however, these provisions do not always fulfill the requirement for a continuous demonstration. When this occurs, IDEM, OAQ, in conjunction with the source, must develop specific conditions to satisfy 326 IAC 2-7-5. As a result, Compliance Determination Requirements are included in the permit. The Compliance Determination Requirements in Section D of the permit are those conditions that are found directly within state and federal rules and the violation of which serves as grounds for enforcement action.

If the Compliance Determination Requirements 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 Compliance Determination Requirements applicable to this modification to avoid the applicability of 326 IAC 2-2, PSD are as follows:

- (a) The soybean meal to be stockpiled into the railcars will be limited to 100,000 tons per twelve months and be counted toward the sourcewide soybean meal production limit of 1,143,180 tons per twelve months.
- (b) Record keeping and reporting of the amount of the soybean meal produced and soybean meal stockpiled into the railcars.

Proposed Changes

The changes listed below have been made to Part 70 Operating Permit No. 023-6066-00011 Deleted language appears as ~~strike throughs~~ and new language appears in **bold**:

Section A.1 and Section D.1 have been revised to incorporate the storage of soybean meal in railcars:

A.1 Emission Units and Pollution Control Equipment Summary [326 IAC 2-7-4(c)(3)]
[326 IAC 2-7-5(15)]

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

- (ss) Approved in 2008 to stockpile soybean meal in railcars during plant shutdowns at a limited throughput of 100,000 tons/year utilizing existing grain receiving/unloading pits EU01 and EU02, elevator leg EU03, conveyor EU28A, storage tanks EU30, surge tanks EU31, mixing conveyor EU33 and rail and truck meal loadout EU34 and EU35.**

SECTION D.1 FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(15)]:

- (ss) Approved in 2008 to stockpile soybean meal in railcars during plant shutdowns at a limited throughput of 100,000 tons/year utilizing existing grain receiving/unloading pits EU01 and EU02, elevator leg EU03, conveyor EU28A, storage tanks EU30, surge tanks EU31, mixing conveyor EU33 and rail and truck meal loadout EU34 and EU35.**

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

D.1.3 Particulate [326 IAC 6-3-2]

- (a)** Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), the allowable particulate emission rate from the facilities listed **below during normal operation** shall be limited as indicated in the table below.

The pounds per hour limitations were calculated with either of the following equations:

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

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

Emission Unit ID	Process Weight Rate (ton/hr)	Allowable Particulate Emissions (lb/hr)
Rail Unloading, EU01	400	66.3
Truck Unloading, EU02	720	73.4
Grain elevator, EU03	720	73.4
Conveyor to grain storage, EU04	1,200	80.0
Concrete silo top vents, EU05	720	73.4
Steel storage tank vents, EU06	720	73.4
Conveyor from grain storage, EU07	225	59.8
Grain Dryer, EU08	180	57.4
Grain Cleaner, EU09	180	57.4
Bean Dryer, EU10	122	53.3
Cracking Rolls, EU11	180	57.4
Hull Separator, EU12	180	57.4
Conditioner, EU13	180	57.4
Flaking, EU14	172	56.9
Expander, EU15	30.0	40.0
Hull Screen, EU16	14.0	24.0
Hull Grinder, EU17	14.0	24.0
Hull Storage Unit, EU18	9.00	17.9
Hull Conveyor, EU19	14.0	24.0
Pellet Mill, EU20	9.00	17.9
Pellet Cooler, EU21	9.00	17.9
Pellet Storage Unit, EU22	9.00	17.9
Dryer Deck #1, EU23	172	55.1
Dryer Deck #2, EU24	172	55.1
Dryer Deck #3, EU24A	172	55.1
Cooler Deck, EU25	172	55.1
Meal Conveyor, EU26	136	54.4

Emission Unit ID	Process Weight Rate (ton/hr)	Allowable Particulate Emissions (lb/hr)
Meal sifter, EU27	136	54.4
Meal grinder, EU28	136	54.4
Meal storage conveyor, EU29	90.0	50.0
Meal storage tank, EU30	90.0	50.0
Meal surge tanks, EU31	300	63.0
Hull surge tank, EU32	100	51.3
Mixing conveyor, EU33	250	61.0
Truck Meal & Hull Pellet loadout, EU34	250	61.0
Rail Meal & Hull Pellet loadout, EU35	250	61.0
Meal clay storage, EU36	25.0	35.4
Refinery clay storage, EU37	25.0	35.4
Bean cleaner, EU43	180	57.4
Vertical Seed Conditioner, EU44	180	57.4

- (a) **(1)** For purposes of demonstrating compliance with the particulate emission limits for the rail unloading (EU01), the truck unloading (EU02), the grain elevator (EU03), the conveyor to grain storage (EU04), and the concrete silo top vents (EU05) all exhausting through baghouse GR-1, which exhausts through stack EP01, the allowable particulate emission rate from baghouse GR-1 shall be limited to 366.5 pounds per hour.
- (b) **(2)** For purposes of demonstrating compliance with the particulate emission limits for the conveyor from grain storage (EU07), the grain cleaner (EU09), the hull screen (EU16), the hull grinder (EU17), the hull storage unit (EU18), the hull conveyor (EU19), and the pellet storage unit (EU22) all exhausting through baghouse CE-05, which exhausts through stack EP03, the allowable particulate emission rate from baghouse CE-05 shall be limited to 225 pounds per hour.
- (c) **(3)** For purposes of demonstrating compliance with the particulate emission limits for the bean dryer (EU10), the cracking rolls (EU11), and the conditioner (EU13) all exhausting through cyclone CE-06, which exhausts through stack EP04, the allowable particulate emission rate from cyclone CE-06 and baghouse BH-06A shall be limited to 168 pounds per hour.
- (d) **(4)** For purposes of demonstrating compliance with the particulate emission limits for the hull separator (EU12) and the flakers (EU14) both exhausting through cyclone CE-07, which exhausts through stack EP05, the allowable particulate emission rate from cyclone CE-07 shall be limited to 114.3 pounds per hour.
- (e) **(5)** For purposes of demonstrating compliance with the particulate emission limits for the pellet mill (EU20) and the pellet cooler (EU21) both exhausting through cyclone CE-08, which exhausts through stack EP07, the allowable particulate emission rate from cyclone CE-08 shall be limited to 35.8 pounds per hour.
- (f) **(6)** For purposes of demonstrating compliance with the particulate emission limits for the conveyor to meal screens (EU26), the meal sifter (EU27), the meal grinder

(EU28), the meal storage conveyor (EU29), and the meal storage tank (EU30) all exhausting through baghouse BH-2, which exhausts through stack EP11, the allowable particulate emission rate from baghouse BH-2 shall be limited to 263.2 pounds per hour.

- (g) (7) For purposes of demonstrating compliance with the particulate emission limits for the meal surge tank (EU31), the hull surge tank (EU32), the truck meal & hull pellet loadout (EU34), and the rail meal & hull pellet loadout (EU35) all exhausting through baghouse ML-1, which exhausts through stack EP12, the allowable particulate emission rate from baghouse ML-1 shall be limited to 236.3 pounds per hour.

(b) Pursuant to 326 IAC 6-3-2, the particulate emissions from the following processes when soybean meal is stockpiled in railcars during plant's shutdowns shall be limited as follows:

Emission Unit ID	Process Weight Rate (tons/hr)	Particulate Emissions (lbs/hr)
Rail/Truck Receiving (EU01 and EU02)	400	66.3
Grain/Meal Elevator (EU03)	720	73.4
Conveyor to Meal Storage Tanks (EU28A)	90	50.0
Meal Storage Tanks (EU30)	90	50.0
Meal Surge Tanks (EU31)	300	63.0
Rail/Truck Meal Loadout (EU34 and EU35)	250	61.0

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 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 source was issued a PSD Permit No. 023-24843-00011 on March 19, 2008, which was based on a soybean meal production rate of 1,143,180 tons/year. This source modification 023-26411-00011 will be limited to 100,000 tons/yr and be counted toward the source total soybean meal production rate of 1,143,180 tons/yr and both be made federally enforceable to avoid the requirements of 326 IAC 2-2, PSD.

D.1.5 Prevention of Significant Deterioration (PSD) Minor Limits [326 IAC 2-2]

The Permittee shall comply with the following:

- (a) The source soybean meal production shall be limited to a total of 1,143,180 tons per twelve (12) consecutive month period, with compliance at the end of each month.
- (b) The soybean meal stockpiled into the railcars during plant's shutdown shall be limited to 100,000 tons per twelve (12) consecutive month period, with compliance at the end of each month. The soybean meal stockpiled shall be counted toward the source total soybean meal production limit of 1,143,180 tons per twelve (12) consecutive month period.

Compliance with the above limits shall render the requirements of 326 IAC 2-2, Prevention of Significant Deterioration not applicable with respect to PM and PM10.

D.1.4617 Record Keeping Requirements

- (b) To document compliance with Condition D.1.44-12, the Permittee shall maintain a daily record of visible emission notations required by that condition. The Permittee shall include in its daily record when a visible emission notation is not taken and the reason for the lack of visible emission notation (e.g. the process did not operate that day).
- (c) To document compliance with Condition D.1.42-13, the Permittee shall maintain a daily record of the pressure drop across the baghouses required by that condition. The Permittee shall include in its daily record when a pressure drop reading is not taken and the reason for the lack of a pressure drop reading (e.g. the process did not operate that day).
- (d) To document compliance with Condition D.1.45-16, the Permittee shall maintain records of the scrubber operating parameters required by that condition. The Permittee shall include in its daily record when a reading is not taken and the reason for the lack of a reading (e.g. the process did not operate that day).
- (e) To document compliance with Condition D.1.1(d), the Permittee shall maintain records required by the leak detection and correction program; included as Attachment A to this permit.
- (f) To document compliance with Conditions D.1.1(e) and D.1.2(b), the Permittee shall maintain daily records of the amount of soybeans processed by the plant.
- (g) To document compliance with Condition D.1.6-7, the Permittee shall maintain records of the results from tests required by that condition.
- (h) To document compliance with Condition D.1.2(c), the Permittee shall maintain records of the number of hours in which the emissions from EU10, EU11 and EU13 are not controlled by baghouse BH-06A.
- (i) **To document compliance with Condition D.1.5, the Permittee shall maintain records of the source total soybean meal production and the soybean meal stockpiled into the railcars.**
- (j) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

D.1.4718 Reporting Requirements

A summary of the information to document compliance with Conditions D.1.1(e), ~~and~~ D.1.2(b) and **D.1.5** shall be submitted to the address listed in Section C - General Reporting Requirements, of this permit, using the reporting forms located at the end of this permit, or their equivalent, within thirty (30) days after the end of the reporting period being reported. The report submitted by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

SECTION E.2 has been modified to clarify when NSPS, Subpart DD requirements do not apply to the equipment in this section.

SECTION E.2 FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(15)]

Facilities EU01, EU04, EU07 and EU09. Full facility descriptions in Section D.1.

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

E.2.1 General Provisions Relating to New Source Performance Standards [326 IAC 12-1] [40 CFR Part 60, Subpart A]

(a) The provisions of 40 CFR 60, Subpart A - General Provisions, which are incorporated by reference in 326 IAC 12-1, apply to the facilities described in this Section E.2 except when otherwise specified in 40 CFR 60, Subpart DD.

(b) Pursuant to 40 CFR 60.19, the Permittee shall submit all required notifications and reports to:

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

E.2.2 New Source Performance Standards (NSPS) for Grain Elevators [40 CFR Part 60, Subpart DD] [326 IAC 12]

(a) The Permittee shall comply with the following provisions of 40 CFR Part 60, Subpart DD (New Source Performance Standards (NSPS) for Grain Elevators) (included as Attachment C of this permit) which are incorporated by reference as 326 IAC 12:

- (1) 40 CFR 60.300
- (2) 40 CFR 60.301
- (3) 40 CFR 60.302 (b)(1), (b)(2), and (c)(2)
- (4) 40 CFR 60.303
- (5) 40 CFR 60.304

(b) **This NSPS, Subpart DD is not applicable to the affected truck unloading station, truck loading station, railcar loading station, and railcar unloading station when handling the stockpiled soybean meal. This rule is only applicable to these equipment when handling soybeans.**

The following report form has been added in the permit:

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF AIR QUALITY
 COMPLIANCE DATA SECTION**

Part 70 Quarterly Report

Source Name: Archer Daniels Midland Company
Source Address: 2191 West County Road 0 N/S, Frankfort, IN 46041
Mailing Address: P.O. Box 249, Frankfort, IN 46041
Part 70 Permit No.: T023-6066-00011
Facility: Sourcewide and Railcars
Parameter: PM emissions
Limit: The source soybean meal production shall be limited to a total of 1,143,180 tons per twelve (12) consecutive month period, with compliance at the end of each month.

The soybean meal stockpiled into the railcars during plant's shutdowns shall be limited to 100,000 tons per twelve (12) consecutive month period, with compliance at the end of each month. The soybean meal stockpiled shall be counted toward the source total soybean meal production limit of 1,143,180 tons per twelve (12) consecutive month period.

Quarter: _____ **Year:** _____

Month	1	2	Total Soybean Meal Produced (1 +2) This Month	1	2	Total Soybean Meal Produced (1 +2) Previous 11 Months	1	2	Total Soybean Meal Produced (1 +2) 12 months Total
	Soybean Meal Stockpiled (tons) This Month	Soybean Meal Produced (tons) This Month		Soybean Meal Stockpiled (tons) Previous 11 Months	Soybean Meal Produced (tons) Previous 11 Months		Soybean Meal Stockpiled (tons) 12 months Total	Soybean Meal Produced (tons) 12 months Total	
1									
2									
3									

- No deviation occurred in this quarter.
- Deviation/s occurred in this quarter.
 Deviation has been reported on:

Submitted by: _____
 Title / Position: _____
 Signature: _____
 Date: _____
 Phone: _____

Attach a signed certification to complete this report.

Conclusion and Recommendation

The proposed modification shall be subject to the conditions of the attached Part 70 Minor Source Modification No. 023-26411-00011 and Significant Permit Modification No. 023-26542-00011. The staff recommends to the Commissioner that this Part 70 Minor Source Modification and Significant Permit Modification be approved.

**Maximum Meal Production For Railcar
 Stockpiling 1,143,180 tons/year**

Process/Facility	Emission Factor (lb/ton)			Uncontrolled PTE (tons/year)		
	PM	PM10	PM2.5	PM	PM10	PM2.5
Truck/Rail Receiving (EU-01, EU-02)	0.0350	0.0078	0.0013	20.01	4.46	0.74
Truck/Rail Receiving (EU-01, EU-02) Fugitive	0.0350	0.0078	0.0013	2.00	0.45	0.07
Grain/Meal Elevator (EU-03)	0.0610	0.0340	0.0058	34.87	19.43	3.32
Conveyor to Meal Storage Tanks	0.0610	0.0340	0.0058	34.87	19.43	3.32
Meal Storage Tanks (EU-30)	0.0250	0.0063	0.0011	14.29	3.60	0.63
Meal Surge Tanks (EU-31)	0.0250	0.0063	0.0011	14.29	3.60	0.63
Mixing Conveyor (EU-33)	0.0610	0.0340	0.0060	34.87	19.43	3.43
Truck/Rail Meal Loadout (EU-34 & EU-35)	0.2700	0.1755	0.0298	154.33	100.31	17.03
Truck/Rail Meal Loadout (EU-34 & EU-35) Fugitive)	0.2700	0.1755	0.0298	7.72	5.02	0.85
TOTAL				317.23	175.74	30.02

PM10 and PM2.5 Emission Factors for the Truck/Rail Meal Loadout were estimated by taking 65% and 11% respectively of the PM Emission Factor.
 Fugitive from grain/meal receiving is based on 10% escaping from the dump pit and not being captured by the baghouse.
 Fugitive from the Truck/Rail Meal Loadout is based on 5% escaping and not being captured by the baghouse.

Process/Facility	Control Device	Capture Efficiency	Control Efficiency			Controlled PTE (tons/year)		
			PM	PM10	PM2.5	PM	PM10	PM2.5
Truck/Rail Receiving (EU-01, EU-02)	Baghouse	90%	99%	99%	99%	2.18	0.49	0.08
Truck/Rail Receiving (EU-01, EU-02) Fugitive	None	10% fugitive	0%	0%	0%	2.00	0.45	0.07
Grain/Meal Elevator (EU-03)	Baghouse	100%	99.49%	99.49%	99.49%	0.18	0.10	0.02
Conveyor to Meal Storage Tanks	Baghouse	100%	99.49%	99.49%	99.49%	0.18	0.10	0.02
Meal Storage Tanks (EU-30)	Baghouse	100%	99.49%	99.49%	99.49%	0.07	0.02	0.00
Meal Surge Tanks (EU-31)	Baghouse	100%	99.49%	99.49%	99.49%	0.07	0.02	0.00
Mixing Conveyor (EU-33)	Aspirated through conveying	100%	99.49%	99.49%	99.49%	0.79	0.51	0.09
Truck/Rail Meal Loadout (EU-34 & EU-35)	Baghouse	95%	99.49%	99.49%	99.49%	0.20	0.11	0.02
Truck/Rail Meal Loadout (EU-34 & EU-35) Fugitive)	None	5% fugitive				7.72	5.02	0.85
TOTAL						13.39	6.81	1.15

Emission Factors were taken from the AP-42 Table 9.9.1-1 and Table 9.11.1-1

Limited Meal for Railcar Stockpiling 100,000 tons/year

TABLE 1 Process/Facility	Emission Factor (lb/ton)			Uncontrolled PTE (tons/year)		
	PM	PM10	PM2.5	PM	PM10	PM2.5
Truck/Rail Receiving (EU01, EU02)	0.0350	0.0078	0.0013	1.75	0.39	0.07
Truck/Rail Receiving (EU01, EU02) Fugitive	0.0350	0.0078	0.0013	0.18	0.04	0.01
Grain/M Meal Elevator (EU03)	0.0610	0.0340	0.0058	3.05	1.70	0.29
Conveyor to Meal Storage Tanks (EU28A)	0.0610	0.0340	0.0058	3.05	1.70	0.29
Meal Storage Tanks (EU30)	0.0250	0.0063	0.0011	1.25	0.32	0.06
Meal Surge Tanks (EU31)	0.0250	0.0063	0.0011	1.25	0.32	0.06
Mixing Conveyor (EU33)	0.0610	0.0340	0.0060	3.05	1.70	0.30
Truck/Rail Meal Loadout (EU34 & EU35)	0.2700	0.1755	0.0298	13.50	8.78	1.49
Truck/Rail Meal Loadout (EU34 & EU35) Fugitive)	0.2700	0.1755	0.0298	0.68	0.44	0.07
TOTAL				27.75	15.37	2.63

PM10 and PM2.5 Emission Factors for the Truck/Rail Meal Loadout were estimated by taking 65% and 11% respectively of the PM Emission Factor. Fugitive from grain/meal receiving is based on 10% escaping from the dump pit and not being captured by the baghouse. Fugitive from the Truck/Rail Meal Loadout is based on 5% escaping and not being captured by the baghouse.

TABLE 2 Process/Facility	Control Device	Capture Efficiency	Control Efficiency			Controlled PTE (tons/year)		
			PM	PM10	PM2.5	PM	PM10	PM2.5
Truck/Rail Receiving (EU-01, EU-02)	Baghouse	90%	99%	99%	99%	0.19	0.04	0.01
Truck/Rail Receiving (EU-01, EU-02) Fugitive	None	10% fugitive	0%	0%	0%	0.18	0.04	0.01
Grain/M Meal Elevator (EU-03)	Baghouse	100%	99.49%	99.49%	99.49%	0.02	0.01	0.00
Conveyor to Meal Storage Tanks	Baghouse	100%	99.49%	99.49%	99.49%	0.02	0.01	0.00
Meal Storage Tanks (EU-30)	Baghouse	100%	99.49%	99.49%	99.49%	0.01	0.00	0.00
Meal Surge Tanks (EU-31)	Baghouse	100%	99.49%	99.49%	99.49%	0.01	0.00	0.00
Mixing Conveyor (EU-33)	Aspirated through conveying	100%	99.49%	99.49%	99.49%	0.02	0.01	0.00
Truck/Rail Meal Loadout (EU-34 & EU-35)	Baghouse	95%	99.49%	99.49%	99.49%	0.74	0.48	0.08
Truck/Rail Meal Loadout (EU-34 & EU-35) Fugitive)	None	5% fugitive				0.04	0.02	0.00
TOTAL						1.20	0.62	0.10

Emission Factors were taken from the AP-42 Table 9.9.1-1 and Table 9.11.1-1

Soybean meal produced will be stockpiled into railcars in order that the plant can continue to provide soybean meal to customers. If meal is delivered by trucks, the stockpiled meal from the railcars will be unloaded into the existing grain receiving/unloading pits EU01 and EU02, through the elevator leg EU03, and conveyor EU28A, into the storage tanks EU30. Then the soybean meal will be conveyed back to the surge tanks EU31 and through the mixing conveyor EU33 and into the truck meal loadout EU34.

Emission Point (stack) ID(s)	Emission Unit ID(s)	Control Device ID(s)	Process/Unit Name	Baseline Actual Throughput (t/yr)	Baseline "Could Have Accommodated" Throughput (t/yr)	Projected Actual / Potential Throughput (t/yr)	Emission Factors		Emission Factor Basis / Source	Controls	Control Efficiency (%)		Capture Efficiency (%)	Baseline Actual (BA) Emissions (t/yr)		Baseline "Could Have Accommodated" (CHA) Emissions (t/yr)		Projected Actual (PA) Emissions (t/yr)		PA-BA Increase		PA-CHA Increase		Notes	Comments							
							PM	PM10			Units	PM		PM10	PM	PM10	PM	PM10	PM	PM10	PM	PM10	PM			PM10	PM	PM10	PM	PM10	PM	PM10
Grain Receiving																																
EP01	EU02	GR-1	Truck - Point Source	643,102	1,006,500	1,444,500	0.0350	0.0078	lb/ton of grain rec'd via truck	AP-42, Table 9.9.1-1; Hopper trucks; 3/2003.	Uncontrolled factor	99.0%	99.0%	90%	0.101	0.023	0.159	0.035	0.228	0.051	0.126	0.028	0.069	0.015	a, d	Worst-case PM emissions are from 100% truck receiving.						
EP02F	EU02	Fugitive	Truck (Fugitive)	643,102	1,006,500	1,444,500	0.0350	0.0078	lb/ton of grain rec'd via truck	AP-42, Table 9.9.1-1; Hopper trucks; 3/2003.	Uncontrolled factor	0.0%	0.0%	90%	1.125	0.251	1.761	0.393	2.528	0.563	1.402	0.313	0.767	0.171	b, d	Worst-case PM emissions are from 100% truck receiving.						
EP01	EU03	GR-1	Elevator Leg Vents	799,434	1,006,500	1,444,500	0.061	0.034	lb/ton of grain rec'd	AP-42, Table 9.9.1-1; Grain handling; 3/2003.	Uncontrolled factor	99.49%	99.49%	100%	0.124	0.069	0.157	0.087	0.225	0.125	0.100	0.056	0.068	0.038	a, d	Total beans received (crush + storage capacity = max rate).						
Meal Grinding/Storage																																
EP11	EU33	BH-2	Mixing Conveyor	581,114	700,800	1,051,200	0.0610	0.03400	lb/ton of meal produced	AP-42, Table 9.9.1-1; Grain handling; 3/2003.	Uncontrolled factor	99.49%	99.49%	100%	0.090	0.050	0.109	0.061	0.164	0.091	0.073	0.041	0.055	0.030	a	BA Throughput from plant records; for CHA and PA, Throughput = Crush Rate x meal-to-crush ratio.						
EP11	EU30	BH-2	Meal Storage Unit	581,114	700,800	1,051,200	0.025	0.0063	lb/ton of meal produced	AP-42, Table 9.9.1-1; Storage Bin (vent); 3/2003.	Uncontrolled factor	99.49%	99.49%	100%	0.037	0.009	0.045	0.011	0.067	0.017	0.030	0.008	0.022	0.006	a, d	BA Throughput from plant records; for CHA and PA, Throughput = Crush Rate x meal-to-crush ratio.						
EP11		BH-2	Meal Storage Conveyor	581,114	700,800	1,051,200	0.061	0.034	lb/ton of meal produced	AP-42, Table 9.9.1-1; Grain handling; 3/2003.	Uncontrolled factor	99.49%	99.49%	100%	0.090	0.050	0.109	0.061	0.164	0.091	0.073	0.041	0.055	0.030	a	BA Throughput from plant records; for CHA and PA, Throughput = Crush Rate x meal-to-crush ratio.						
Meal Loadout																																
EP12	EU34 & EU35	ML-1	Truck/Rail Meal Loadout	792,898	876,000	1,314,000	0.270	0.1755	lb/ton of beans processed	PM - AP-42, Table 9.11.1-1; Meal loadout; 11/05; PM10 = 65% of PM (AP42, Table B.2.2, Category 7, 9/05).	Uncontrolled factor	99.49%	99.49%	95%	0.519	0.337	0.573	0.372	0.859	0.559	0.341	0.222	0.286	0.186	a, d	Throughput = total beans processed (Crush Rate) x bean density (lb/bus).						
	EU35 & EU36	Fugitive	Truck/Rail Meal Loadout	792,898	876,000	1,314,000	0.270	0.1755	lb/ton of beans processed	PM - AP-42, Table 9.11.1-1; Meal loadout; 11/05; PM10 = 65% of PM (AP42, Table B.2.2, Category 7, 9/05).	Uncontrolled factor	0.00%	0.00%	95%	5.352	3.479	5.913	3.843	8.870	5.765	3.517	2.286	2.957	1.922	b, d	Throughput = total beans processed (Crush Rate) x bean density (lb/bus).						
EP12	EU31	ML-1	Meal Surge Tank	581,114	700,800	1,051,200	0.025	0.0063	lb/ton of meal produced	AP-42, Table 9.9.1-1; Storage Bin (vent); 3/2003.	Uncontrolled factor	99.49%	99.49%	100%	0.037	0.009	0.045	0.011	0.067	0.017	0.030	0.008	0.022	0.006	a	BA Throughput from plant records; for CHA and PA, Throughput = Crush Rate x meal-to-crush ratio.						
																			Totals =	5.693	3.00	4.30	2.40									
																			Excluded from Increase =			1.39	0.60									

NOTES:
 a Emissions = Throughput (tons/yr) x EF (lb/ton) x (Capture Efficiency) x (1 - Control Efficiency) x (1 ton/2000 lb)
 b Emissions = Throughput (tons/yr) x EF (lb/ton) x (1 - Capture Efficiency) x (1 - Control Efficiency) x (1 ton/2000 lb)
 c Emissions = Throughput (tons/yr) x EF (lb/ton) x (Capture Efficiency) x (1 ton/2000 lb)
 d These units are not being modified. Since the respective emission factors for PA, BA and CHA are the same for a given unit, calculation of PA - CHA is an adequate measure of the increased emissions from these units.