INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
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Mitchell E. Daniels, Jr.
Governor

Thomas W. Easterly
Commissioner

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

TO: Interested Parties / Applicant

DATE: December 22, 2005

RE: Archer Daniels Midland Company / 023-21838-00011

FROM: Paul Dubenetzky
Chief, Permits Branch
Office of Air Quality

Notice of Decision: Approval - Effective Immediately

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

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

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

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

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

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

Enclosures
FNPER.dot 1/10/05

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Ken Doellman
Archer Daniels Midland Company
2100 Gardner Expressway
Quincy, IL 62305

December 22, 2005

Re: 023-21838-00011
Significant Source Modification to
Part 70 Permit 023-6066-00011

Dear Mr. Doellman,

Archer Daniels Midland Company was issued a Part 70 operating permit on July 13, 2004 for a soybean processing plant located at 2191 West County Road 0 N/S, Frankfort, IN 46041-8746. An application to modify this source was received on October 3, 2005. Pursuant to 326 IAC 2-7-10.5, the alternate fuel project, to allow the use of vegetable oil, or blends of vegetable oil and distillate fuel oil, as fuel in two of the plant's existing boilers, is approved.

The following construction conditions are applicable to the proposed project:

General Construction Conditions

1. The data and information supplied with the application shall be considered part of this source modification approval. Prior to any proposed change in construction which may affect the potential to emit (PTE) of the proposed project, the change must be approved by the Office of Air Quality (OAQ).

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

3. Effective Date of the Permit
Pursuant to IC 13-15-5-3, this approval becomes effective upon its issuance.

4. Pursuant to 326 IAC 2-1.1-9 and 326 IAC 2-7-10.5(i), the Commissioner may revoke this approval if construction is not commenced within eighteen (18) months after receipt of this approval or if construction is suspended for a continuous period of one (1) year or more.

5. All requirements and conditions of this construction approval shall remain in effect unless modified in a manner consistent with procedures established pursuant to 326 IAC 2.

6. Pursuant to 326 IAC 2-7-10.5(l) the alternate fuel project constructed under this approval shall not be placed into operation prior to revision of the source's Part 70 Operating Permit to incorporate the required operation conditions.

This significant source modification authorizes construction and physical modification to accommodate the alternate fuel project. Operating conditions shall be incorporated into the Part 70 operating permit as a significant permit modification in accordance with 326 IAC 2-7-10.5(l)(2) and 326 IAC 2-7-12. Operation under the alternate fuel project is not approved until the significant permit modification has been issued.

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 call (800) 451-6027, press 0 and ask for Allen R. Davidson or extension 3-5693, or dial (317) 233-5693.

Sincerely,

Original Signed By:
Nisha Sizemore
Paul Dubenetzky, Chief
Permits Branch
Office of Air Quality

Attachments
ARD

cc: File - Clinton County
Clinton County Health Department
Air Compliance Section Inspector - Dave Rice
Compliance Data Section
Administrative and Development

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PART 70 SIGNIFICANT SOURCE MODIFICATION
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: Janet G. McCabe, Assistant Commissioner Office of Air Quality	Issuance Date: July 13, 2004 Expiration Date: July 13, 2009
1st Minor Source Modification 023-20324-00011 1st Minor Permit Modification: 023-19883-00011 1st Administrative Amendment 023-21789-00011	Issuance Date: December 20, 2004 Issuance Date: February 17, 2005 Issuance Date: December 16, 2005
1st Significant Source Modification 023-21838-00011	Pages Affected: 4, 8, 44-49, 57
Issued by: Original Signed By: Nisha Sizemore Paul Dubenetzky, Branch Chief Office of Air Quality	Issuance Date: December 22, 2005 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.

Responsible Official:	Denis W. Oberg, Plant Manager
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, 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, 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, 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 exhausting to one (1) stack (EP04);

(k) Cracking rolls, identified as EU11, constructed in February of 1986, controlled for particulate matter by one (1) cyclone (CE-06), and exhausting to one (1) stack (EP04);

(l) One (1) hull separator system, identified as EU12, constructed in February of 1986, 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, controlled for particulate matter by one (1) cyclone (CE-06), and exhausting to one (1) stack (EP04);

(n) One (1) flaking operation, identified as EU14, constructed in June of 1985, 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, controlled for particulate matter by one (1) cyclone (CE-19) and one (1) baghouse (CE-05) in series, and exhausting to one (1) stack (EP03);

(q) One (1) hull grinder, identified as EU17, constructed in June of 1989, controlled for particulate matter by one (1) cyclone (CE-20) and one (1) baghouse (CE-05) in series, and exhausting to one (1) stack (EP03);

(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, 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, controlled for particulate matter by one (1) cyclone (CE-09), and exhausting to one (1) stack (EP08);

(x) One (1) dryer deck, DTDC - Deck #2, identified as EU24, constructed in May of 1985, controlled for particulate matter by one (1) cyclone (CE-10), and exhausting to one (1) stack (EP09);

(y) One (1) DTDC - cooler deck, identified as EU25, constructed in May of 1985, controlled for particulate matter by one (1) cyclone (CE-11), and exhausting to one (1) stack (EP10);

(z) One (1) conveyor from DTDC to meal screens, identified as EU26, constructed in June of 1991, controlled for particulate matter by one (1) baghouse (BH-2), and exhausting to one (1) stack (EP11);

(aa) One (1) meal sifting operation, identified as EU27, constructed in June of 1991, controlled for particulate matter by one (1) baghouse (BH-2), and exhausting to one (1) stack (EP11);

(bb) One (1) meal grinding operation, identified as EU28, constructed in June of 1991, controlled for particulate matter by one (1) baghouse (BH-2), and exhausting to one (1) stack, (EP11);

(cc) One (1) meal storage conveyor, identified as EU29, constructed in June of 1991, controlled for particulate matter by one (1) baghouse (BH-2), and exhausting to one (1) stack (EP11);

(dd) One (1) meal storage unit (two tanks), identified as EU30, constructed in 1958, controlled for particulate matter by one (1) baghouse (BH-2), and exhausting to one (1) stack (EP11);

(ee) Two (2) meal surge tanks, identified as EU31, constructed in 1986, with a portion of emissions controlled for particulate matter by one (1) baghouse (ML-1), exhausting to one (1) stack (EP12) and a portion of emissions uncontrolled exhausting to one (1) stack (EP26);

(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) and a portion of emissions uncontrolled exhausting to one (1) stack (EP27);

(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, 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) 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);

(oo) Boiler #2, identified as EU40, constructed in 1987, firing natural gas or No. 2 distillate fuel oil, exhausting to one (1) stack (EP16);

(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).

Note: The maximum capacities of the above listed emission units are confidential trade secret information.

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]

(ee) The following activities with emissions equal to or less than insignificant thresholds:

(1) one (1) silica clay storage silo, identified as EU44, with particulate emissions controlled by a baghouse (RC-2), exhausting through one (1) stack (EP19). [326 IAC 6-3-2]

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 Permit Term [326 IAC 2-7-5(2)] [326 IAC 2-1.1-9.5]

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

B.3 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.4 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.5 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.6 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.7 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.8 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.9 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
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.10 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
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.11 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: 317-233-5674 (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
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.12 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.13 Prior Permits Superseded [326 IAC 2-1.1-9.5]

(a) All terms and conditions of previous permits issued pursuant to permitting programs approved into the state implementation plan have been either

(1) incorporated as originally stated,

(2) revised, or

(3) deleted

by this permit.

(b) All previous registrations and permits are superseded by this permit.

B.14 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
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.15 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.16 Permit Renewal [326 IAC 2-7-3] [326 IAC 2-7-4]

(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
Indianapolis, IN 46204-2251

(b) Timely Submittal of Permit Renewal [326 IAC 2-7-4(a)(1)(D)]

(1) 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.

(2) If IDEM, OAQ, upon receiving a timely and complete 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.

(c) Right to Operate After Application for Renewal [326 IAC 2-7-3]
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.

(d) United States Environmental Protection Agency Authority [326 IAC 2-7-8(e)]
If IDEM, OAQ, fails to act in a timely way on a Part 70 permit renewal, the U.S. EPA may invoke its authority under Section 505(e) of the Clean Air Act to terminate or revoke and reissue a Part 70 permit.

B.17 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
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)]

(d) No permit amendment or modification is required for the addition, operation or removal of a nonroad engine, as defined in 40 CFR 89.2.

B.18 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.19 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
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.20 Source Modification Requirement [326 IAC 2-7-10.5]

A modification, construction, or reconstruction is governed by the requirements of 326 IAC 2 and 326 IAC 2-7-10.5.

B.21 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.22 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
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.23 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.24 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. 326 IAC 4-1-3 (a)(2)(A) and (B) are not federally enforceable.

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. 326 IAC 9-1-2 is not federally enforceable.

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
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) All testing shall be performed according to the provisions of 326 IAC 3-6 (Source Sampling Procedures), except as provided elsewhere in this permit, utilizing any applicable procedures and analysis methods specified in 40 CFR 51, 40 CFR 60, 40 CFR 61, 40 CFR 63, 40 CFR 75, or other procedures approved by IDEM, OAQ.

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

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

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, 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, 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, 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 exhausting to one (1) stack (EP04);

(k) Cracking rolls, identified as EU11, constructed in February of 1986, controlled for particulate matter by one (1) cyclone (CE-06), and exhausting to one (1) stack (EP04);

(l) One (1) hull separator system, identified as EU12, constructed in February of 1986, 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, controlled for particulate matter by one (1) cyclone (CE-06), and exhausting to one (1) stack (EP04);

(n) One (1) flaking operation, identified as EU14, constructed in June of 1985, 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, controlled for particulate matter by one (1) cyclone (CE-19) and one (1) baghouse (CE-05) in series, and exhausting to one (1) stack (EP03);

(q) One (1) hull grinder, identified as EU17, constructed in June of 1989, controlled for particulate matter by one (1) cyclone (CE-20) and one (1) baghouse (CE-05) in series, and exhausting to one (1) stack (EP03);

(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, 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, controlled for particulate matter by one (1) cyclone (CE-09), and exhausting to one (1) stack (EP08);
(x) One (1) dryer deck, DTDC - Deck #2, identified as EU24, constructed in May of 1985, controlled for particulate matter by one (1) cyclone (CE-10), and exhausting to one (1) stack (EP09);
(y) One (1) DTDC - cooler deck, identified as EU25, constructed in May of 1985, controlled for particulate matter by one (1) cyclone (CE-11), and exhausting to one (1) stack (EP10);
(z) One (1) conveyor from DTDC to meal screens, identified as EU26, constructed in June of 1991, controlled for particulate matter by one (1) baghouse (BH-2), and exhausting to one (1) stack (EP11);
(aa) One (1) meal sifting operation, identified as EU27, constructed in June of 1991, controlled for particulate matter by one (1) baghouse (BH-2), and exhausting to one (1) stack (EP11);
(bb) One (1) meal grinding operation, identified as EU28, constructed in June of 1991, controlled for particulate matter by one (1) baghouse (BH-2), and exhausting to one (1) stack, (EP11);
(cc) One (1) meal storage conveyor, identified as EU29, constructed in June of 1991, controlled for particulate matter by one (1) baghouse (BH-2), and exhausting to one (1) stack (EP11);
(dd) One (1) meal storage unit (two tanks), identified as EU30, constructed in 1958, controlled for particulate matter by one (1) baghouse (BH-2), and exhausting to one (1) stack (EP11);
(ee) Two (2) meal surge tanks, identified as EU31, constructed in 1986, with a portion of emissions controlled for particulate matter by one (1) baghouse (ML-1), exhausting to one (1) stack (EP12) and a portion of emissions uncontrolled exhausting to one (1) stack (EP26);
(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) and a portion of emissions uncontrolled exhausting to one (1) stack (EP27);
(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, 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);

(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 General Provisions Relating to NSPS [326 IAC 12-1][40 CFR Part 60, Subpart A]

The provisions of 40 CFR Part 60, Subpart A - General Provisions, which are incorporated by reference in 326 IAC 12-1, apply to the grain cleaner (EU09) and the rail unloading operation (EU01) described in this section except when otherwise specified in 40 CFR Part 60, Subpart DD.

D.1.2 New Source Performance Standard (NSPS) for Grain Elevators [326 IAC 12][40 CFR 60.300 - 60.304, Subpart DD]

(a) Pursuant to 40 CFR 60.302, the following shall apply to the grain cleaner (EU09):

(1) On and after the date on which the performance test required to be conducted by 40 CFR 60.8 is completed, no owner or operator subject to the provisions of this subpart shall cause to be discharged into the atmosphere from any affected facility except a grain dryer any process emission which:

(A) Contains particulate matter in excess of 0.023 g/dscm (ca. 0.01 gr/dscf).

(B) Exhibits greater than 0 percent opacity.

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

(b) Pursuant to 40 CFR 60.302, the following shall apply to the rail unloading operation (EU01):

(1) On and after the date on which the performance test required to be conducted by 40 CFR 60.8 is completed, no owner or operator subject to the provisions of this subpart shall cause to be discharged into the atmosphere from any affected facility except a grain dryer any process emission which:

(A) Contains particulate matter in excess of 0.023 g/dscm (ca. 0.01 gr/dscf).

(B) Exhibits greater than 0 percent opacity.

(2) On and after the 60th day of achieving the maximum production rate at which the affected facility will be operated, but no later than 180 days after initial startup, no owner or operator subject to the provisions of this subpart shall cause to be discharged into the atmosphere any fugitive emission from any individual railcar unloading station which exhibits greater than 5 percent opacity.

D.1.3 General Provisions Relating to NESHAPs [326 IAC 20-1-1][40 CFR Part 63, Subpart A]

The provisions of 40 CFR Part 63, Subpart A - General Provisions, which are incorporated as 326 IAC 20-1-1, apply to the facility described in this section except when otherwise specified in 40 CFR Part 63, Subpart GGGG.

D.1.4 Solvent Extraction for Vegetable Oil Production NESHAP [40 CFR 63.2840]

The conventional soybean process is subject to 40 CFR 63.2840 with a compliance date of three years after April 12, 2001, the effective date of the rule. The solvent (hexane) loss from the conventional soybean process shall not exceed 0.2 gallons per ton of soybeans processed.

D.1.5 Particulate [326 IAC 6-3-2]

Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), the allowable particulate emission rate from the facilities listed below 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:

$E = 4.10\ P^{0.67}$ where E = rate of emission in pounds per hour; and
P = 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:

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

Emission Unit ID	Process Weight Rate (tons/hr)	Allowable Particulate Emissions (lb/hr)
Rail Unloading, EU01	confidential	66.3
Truck Unloading, EU02	confidential	73.4
Grain elevator, EU03	confidential	73.4
Conveyor to grain storage, EU04	confidential	73.4
Concrete silo top vents, EU05	confidential	73.4
Steel storage tank vents, EU06	confidential	73.4
Conveyor from grain storage, EU07	confidential	60.7
Grain Dryer, EU08	confidential	57.4
Grain Cleaner, EU09	confidential	53.3
Bean Dryer, EU10	confidential	53.3
Cracking Rolls, EU11	confidential	53.3
Hull Separator, EU12	confidential	53.3
Conditioner, EU13	confidential	52.5
Flakers, EU14	confidential	52.5
Expander, EU15	confidential	40.0
Hull Screen, EU16	confidential	17.9
Hull Grinder, EU17	confidential	17.9
Hull Storage Unit, EU18	confidential	17.9
Hull Conveyor, EU19	confidential	17.9
Pellet Mill, EU20	confidential	17.9
Pellet Cooler, EU21	confidential	17.9
Pellet Storage Unit, EU22	confidential	17.9
Dryer Deck #1, EU23	confidential	52.5

Emission Unit ID	Process Weight Rate (tons/hr)	Allowable Particulate Emissions (lb/hr)
Dryer Deck #2, EU24	confidential	52.5
Cooler Deck, EU25	confidential	52.5
Conveyor to meal screens, EU26	confidential	50.0
Meal sifter, EU27	confidential	50.0
Meal grinder, EU28	confidential	50.0
Meal storage conveyor, EU29	confidential	50.0
Meal storage tank, EU30	confidential	50.0
Meal surge tank, EU31	confidential	61.0
Hull surge tank EU32	confidential	51.3
Mixing conveyor EU33	confidential	61.0
Truck Meal & Hull Pellet loadout EU34	confidential	61.0
Rail Meal & Hull Pellet loadout EU35	confidential	61.0
Meal clay storage EU36	confidential	35.4
Refinery clay storage EU37	confidential	35.4
Bean cleaner EU43	confidential	57.4

(a) 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 359.9 pounds per hour.

(b) 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 203.5 pounds per hour.

(c) 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 shall be limited to 159.1 pounds per hour.

(d) 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 105.8 pounds per hour.

(e) 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) 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 250.0 pounds per hour.

(g) 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 234.3 pounds per hour.

D.1.6 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 ft^2 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:

Conventional Soybean = 3($Seed_i$ *SLR_i) / 3 ($Seed_i$) # 0.175 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.1.7 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 this facility and any control devices.

Compliance Determination Requirements

D.1.8 Testing Requirements [40 CFR 60, Subpart DD][326 IAC 2-7-6(1), (6)] [326 IAC 2-1.1-11]

(a) During the period within 180 days after issuance of this Part 70 permit, in order to demonstrate compliance with Conditions D.1.2 and D.1.5, the Permittee shall perform PM, PM-10, and opacity testing for the grain cleaner (EU09), exhausting through cyclone CE-18 and baghouse CE-05 in series through stack EP03, utilizing methods required pursuant to 40 CFR 60.303. PM-10 includes filterable and condensible PM-10. Testing shall be conducted in accordance with Section C- Performance Testing.

(b) During the period within 60 days after achieving maximum production capacity but no later than 180 days after startup, in order to demonstrate compliance with Condition D.1.2, the Permittee shall perform PM and opacity testing for the rail unloading operation (EU01), exhausting through baghouse GR-1 through stack EP01, utilizing methods required pursuant to 40 CFR 60.303. Testing shall be conducted in accordance with Section C- Performance Testing.

D.1.9 Testing Requirements [326 IAC 2-7-6(1),(6)] [326 IAC 2-1.1-11]

(a) During the period within 180 days after issuance of this Part 70 permit, in order to demonstrate compliance with Condition D.1.5, and to verify the emission factors, the Permittee shall perform PM and PM-10 testing on cyclones CE-09, CE-10, and CE-11 utilizing methods as approved by the Commissioner. These tests shall be repeated at least once every five (5) years from the date of this valid compliance demonstration. PM-10 includes filterable and condensible PM-10. Testing shall be conducted in accordance with Section C- Performance Testing.

(b) During the period within twelve (12) months after issuance of this Part 70 permit, in order to demonstrate compliance with Condition D.1.5, the Permittee shall perform PM and PM-10 testing on baghouses BH-2, ML-1, and CE-21 and cyclones CE-06 and CE-07 utilizing methods as approved by the Commissioner. These tests shall be repeated at least once every five (5) years from the date of this valid compliance demonstration. PM-10 includes filterable and condensible PM-10. Testing shall be conducted in accordance with Section C- Performance Testing.

D.1.10 HAP (MACT) Compliance [40 CFR Part 63, Subpart GGGG]

Compliance with Condition D.1.4 shall be demonstrated in the following manner:

(a) Calculate a compliance ratio, which compares the actual HAP loss to the allowable HAP loss for the previous 12 operating months. An operating month, as defined in 40 CFR 63.2872, is any calendar month in which a source processes soybean, excluding any calendar month in which the source operated under an initial startup period subject to 40 CFR 63.2850(c)(2) or (d)(2) or a malfunction period subject to 40 CFR 63.2850(e)(2). The equation to calculate a compliance ratio follows:

(1) Compliance Ratio = (Actual HAP Loss) / (Allowable HAP Loss) (Eq. 1)

(2) Equation 1 can also be expressed as a function of total solvent loss as shown in Equation 2.

(3) $$\text{Compliance Ratio} = \frac{f * \text{Actual Solvent Loss}}{0.64 * (\text{tons of soybean processed} * \text{SLF})} \quad \text{(Eq. 2)}$$

where: f = The weighted average volume fraction of HAP in solvent received during the previous 12 operating months, as determined in 40 CFR 63.2854, dimensionless.

0.64 = The average volume fraction of HAP in solvent in the baseline performance data, dimensionless.

Actual solvent loss = gallons of actual solvent loss during previous 12 operating months, as determined in 40 CFR 63.2853.

Tons of soybean processed = Tons of soybean processed during the previous 12 operating months, as shown in 40 CFR 63.2855.

SLF = Solvent Loss Factor of 0.2 gallon per ton of soybean processed for a conventional soybean process from Table 1 of 40 CFR 63.2840.

(b) When the source has processed soybean for 12 operating months, calculate the compliance ratio by the end of each calendar month following an operating month using Equation 2. When calculating the compliance ratio, consider the following conditions and exclusions in paragraphs (b)(1) through (6):

(1) If soybean is processed in a calendar month and the process is not operating under an initial startup period or malfunction period subject to 40 CFR 60.2850, then that month is categorized as an operating month, as defined in 40 CFR 63.2872.

(2) The 12 month compliance ratio may include operating months prior to a source shutdown and operating months that follow after the source resumes operation.

(3) If the source shuts down and processes no soybean for an entire calendar month as a non operating month, as defined in 40 CFR 63.2872, exclude any nonoperating months from the compliance ratio determination.

(4) If the source is subject to an initial startup period as defined in 40 CFR 63.2872, exclude from the compliance ratio determination any solvent and soybean information recorded for the initial startup period.

(5) If the source is subject to a malfunction period as defined in 40 CFR 63.2872, exclude from the compliance ratio determination any solvent and soybean information recorded for the malfunction period.

(6) The solvent loss factor to determine the compliance ratio may change each operating month depending on the tons of soybean processed during all normal operating periods in a 12 operating month period.

(c) If the compliance ratio is less than or equal to 1.00, then the source was in compliance with the HAP emission requirements for the previous operating month.

(d) The Permittee shall develop and implement a written plan in accordance with 40 CFR 63.2851 that provides the detailed procedures to monitor and record data necessary for demonstrating compliance with this subpart.

(e) The Permittee shall develop a written SSM (Startup, Shutdown, and Malfunction) in accordance with 40 CFR 63.6(e)(3), and implement the plan, when applicable. The Permittee must complete the SSM plan before the compliance date for this source.

(f) The SSM plan provides detailed procedures for operating and maintaining the source to minimize emissions during a qualifying SSM event for which the source chooses the 40 CFR 63.2850(e)(2) malfunction period, or the 40 CFR 63.2850(c)(2) or (d)(2) initial startup period. The SSM plan must specify a program of corrective action for malfunctioning process and air pollution control equipment and reflect the best practices now in use by the industry to minimize emissions.

D.1.11 Consent Decree Compliance

(a) Compliance with the interim and final VOC SLR limits in the Consent Decree 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

	Total Crush (tons)		Total Solvent Loss (gallons)		Malfunction Period Solvent Loss (gallons)		Adjusted Solvent Loss[a] (gallons)		SLR[b] (gal/ton)
Date	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.1.12 Particulate Control

(a) In order to comply with conditions D.1.2 and D.1.5, baghouses CE-05, ML-1, BH-2 and CE-21 and cyclones CE-06, CE-07, CE-09, CE-10, CE-11, CE-18, CE-19, and CE-20 for particulate control shall be in operation and control emissions from the associated facilities at all times that the associated facilities are in operation.

(b) In order to comply with condition D.1.2, baghouse GR-1 for particulate control shall be in operation and control emissions from the rail unloading operation (EU01) at all times that the rail unloading operation is in operation.

(c) In the event that bag failure is observed in a multi-compartment baghouse, if operations will continue for ten (10) days or more after the failure is observed before the failed units will be repaired or replaced, the Permittee shall promptly notify the IDEM, OAQ of the expected date the failed units will be repaired or replaced. The notification shall also include the status of the applicable compliance monitoring parameters with respect to normal, and the results of any response actions taken up to the time of notification.

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

D.1.13 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 has accepted this requirement on a voluntary basis.

D.1.14 VOC Control

In order to comply with condition D.1.6, the mineral oil absorber/scrubber (CE-22) and the once-through cold water condenser located between the vent condenser and the mineral oil absorber/scrubber shall be operated at all times that the hexane solvent oil extraction process (EU38) is in operation.

D.1.15 Visible Emissions Notations

(a) Visible emission notations of the stack exhausts for baghouses GR-1, CE-05, BH-2, ML-1, MC-1, RCB, and CE-21 and the stack exhausts for cyclones CE-06, CE-07, CE-08, CE-09, CE-10, and CE-11 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) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.

(c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.

(d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.

(e) If abnormal emissions are observed, the Permittee shall take reasonable response steps in accordance with Section C- Response to Excursions or Exceedances. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances, shall be considered a deviation from this permit.

D.1.16 Parametric Monitoring

The Permittee shall record the pressure drop across each of the baghouses GR-1, CE-05, BH-2, ML-1, MC-1, RCB, and CE-21 used in conjunction with emission units EU-01 through EU-05, EU-07, EU-09, EU-16 through EU-19, EU-22, EU-26 through EU-32, EU-34 through EU-37, and EU-43, at least once per day when these emission units are in operation when venting to the atmosphere. 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.

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.1.17 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.1.18 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.1.19 Parametric Monitoring

(a) The Permittee shall record the following for the scrubber 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 static 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 25.0 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.

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.1.20 Record Keeping Requirements [40 CFR 63.2862, Subpart GGGG]

(a) This source must satisfy the recordkeeping requirements of 40 CFR 63.2862 by no later than April 12, 2004. Pursuant to 40 CFR 63.2862(b), the source must prepare a plan for demonstrating compliance (as described in 40 CFR 63.2851) and a SSM plan (as described in 40 CFR 63.2852). In these two plans, the source must describe the procedures that will be followed in obtaining and recording data, and determining compliance under normal operations or a SSM subject to the 40 CFR 63.2850(c)(2) or (d)(2) initial startup period or the 40 CFR 63.2850(e)(2) malfunction period. Both plans must be completed before the compliance date for the source and must be kept on-site and readily available as long as the source is operational.

(b) The source must also record the items in paragraphs (c)(1) through (5) of 40 CFR 63.2862.

(c) After the source has processed soybeans for 12 operating months, and is not operating during an initial startup period as described in 40 CFR 63.2850(c)(2) or (d)(2), or a malfunction period as described in 40 CFR 63.2850(e)(2), the source must record the items in paragraphs (d)(1) through (5) of 40 CFR 63.2862 by the end of the calendar month following each operating month.

(d) For each SSM event subject to an initial startup period as described in 40 CFR 63.2850(c)(2) or (d)(2), or a malfunction period as described in 40 CFR 63.2850(e)(2), the source shall record the items in paragraphs (e)(1) through (3) of 40 CFR 63.2862 by the end of the calendar month following each month in which the initial startup period or malfunction period occurred.

(e) The records must be in a form suitable and readily available for review in accordance with 40 CFR 63.10(b)(1). As specified in 40 CFR 63.10(b)(1), each record must be kept for 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record. Each record must be kept on-site for at least 2 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, in accordance with 40 CFR 63.10(b)(1). The records can be kept off-site for the remaining 3 years.

D.1.21 Record Keeping Requirements

(a) To demonstrate compliance with the final VOC SLR limits at this oilseed plant pursuant to condition D.1.6, 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.1.15, the Permittee shall maintain records of once per day visible emission notations of the stack exhausts for baghouses GR-1, CE-05, BH-2, ML-1, MC-1, RCB, and CE-21 and the stack exhausts for cyclones CE-06, CE-07, CE-08, CE-09, CE-10, and CE-11.

(c) To document compliance with Condition D.1.16, the Permittee shall maintain records once per day of the pressure drop for each baghouse during normal operation when venting to the atmosphere.

(d) To document compliance with Condition D.1.21, the Permittee shall maintain records once per day of the following for the mineral oil scrubber:

(1) the total static 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.

(e) To document compliance with Condition D.1.7, the Permittee shall maintain of records of any additional inspections prescribed by the Preventive Maintenance Plan.

(f) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

D.1.22 Reporting Requirements [40 CFR 63.2860 - 63.2861, Subpart GGGG]

(a) The Permittee must submit a notification of compliance status report to the OAQ no later than 60 days after determining the initial 12 operating months compliance ratio. The notification of compliance status must contain the items in paragraphs (d)(1) through (6) of 40 CFR 63.2860 which are as follows:

(1) The name and address of the owner or operator.

(2) The physical address of the vegetable oil production process.

(3) Each listed oilseed type processed during the previous 12 operating months.

(4) Each HAP identified under 40 CFR 63.2854(a) as being present in concentrations greater than 1 percent by volume in each delivery of solvent received during the 12 operating months period used for the initial compliance determination.

(5) A statement designating the source as a major source of HAP or a demonstration that the source qualifies as an area source. An area source is a source that is not a major source and is not collocated within a plant site with other sources that are individually or collectively a major source.

(6) A compliance certification indicating whether the source complied with all of the requirements of this subpart throughout the 12 operating months used for the initial source compliance determination. This certification must include a certification of the items in paragraphs (d)(6)(i) through (iii) of this section:

(i) The plan for demonstrating compliance (as described in 40 CFR 63.2851) and SSM plan (as described in 40 CFR 63.2852) are complete and available on-site for inspection.

(ii) The source is following the procedures described in the plan for demonstrating compliance.

(iii) The compliance ratio is less than or equal to 1.00.

(b) The Permittee must submit the reports in paragraphs (a) through (d) of 40 CFR 63.2861 to the OAQ as follows:

(1) Annual compliance certification - The first annual compliance certification is due 12 calendar months after the Permittee submits the notification of compliance status. Each subsequent annual compliance certification is due 12 calendar months after the previous annual compliance certification. The annual compliance certification provides the compliance status for each operating month during the 12 calendar months period ending 60 days prior to the date on which the report is due. The report shall include the information in paragraphs (a)(1) through (6) of 40 CFR 63.2861.

(2) Deviation notification report - The Permittee shall submit a deviation notification report for each compliance determination in which the compliance ratio exceeds 1.0 as determined under 40 CFR 63.2840(c). The deviation report shall be submitted by the end of the month following the calendar month in which the source determined the deviation. The deviation notification report must include the items in paragraphs (b)(1) through (4) of 40 CFR 63.2861.

(3) Periodic startup, shutdown, and malfunction report – If the source is operating under an initial startup period subject to 40 CFR 63.2850(c)(2) or (d)(2) or a malfunction period subject to 40 CFR 63.2850(e)(2), the Permittee must submit a periodic SSM report by the end of the calendar month following each month in which the initial startup period or malfunction period occurred. The periodic SSM report must include the items in paragraphs (c)(1) through (3) of 40 CFR 63.2861.

(4) Immediate SSM reports – If the source handles a SSM during an initial startup period subject to 40 CFR 63.2850(c)(2) or (d)(2) or a malfunction period subject to 40 CFR 63.2850(e)(2) differently from procedures in the SSM plan and the relevant emission requirements in 40 CFR 63.2840 are exceeded, then the Permittee must submit an immediate SSM report. Immediate SSM reports consist of a telephone call or facsimile transmission to the responsible agency within 2 working days after starting actions consistent with the SSM plan, followed by a letter within 7 working days after the end of the event. The letter must include the items in paragraphs (d)(1) through (3) of 40 CFR 63.2861.

SECTION D.2 FACILITY OPERATION CONDITIONS

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

(nn) 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);

(oo) Boiler #2, identified as EU40, constructed in 1987, firing natural gas or No. 2 distillate fuel oil, exhausting to one (1) stack (EP16);

(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).

(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 Particulate [326 IAC 6-2-3]

(a) Pursuant to 326 IAC 6-2-3 (Particulate Emission Limitations for Sources of Indirect Heating) the PM from the boiler identified as 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.2.2 Particulate [326 IAC 6-2-4]

Pursuant to 326 IAC 6-2-4 (Particulate Emission Limitations for Sources of Indirect Heating) the PM from each of the boilers identified as EU40, EU41, and EU42 shall be limited to 0.33, 0.28, and 0.28 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.
Note: This information is a confidential trade secret.

D.2.3 Sulfur Dioxide (SO_2) [326 IAC 7-1.1-1] [326 IAC 12-1]

Pursuant to 326 IAC 7-1.1 (SO_2 Emissions Limitations) and 40 CFR 60, Subpart Dc (Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units):

(a) The SO_2 emissions from each of boiler #3 (EU41) and the refinery boiler (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 60 Subpart Dc, the fuel oil sulfur content limit applies at all times, including periods of startup, shutdown, and malfunction.

D.2.4 Sulfur Dioxide (SO_2) [326 IAC 7-1.1-1] [326 IAC 7-2-1]

Pursuant to 326 IAC 7-1.1 (SO_2 Emissions Limitations) the SO_2 emissions from each of boiler #1 (EU39) and boiler #2 (EU40) 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.2.5 Distillate Fuel Oil / Vegetable Oil Usage Limitations [326 IAC 1-7] [326 IAC 2-2]

(a) Pursuant to OP 12-09-90-0136, issued on January 18, 1988, 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 SO_2 emissions are limited to less than 25 tons per year. Compliance with this usage limit shall render 326 IAC 1-7 as not applicable.

(b) 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. 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.

(c) For boiler #1 and boiler #3, when burning vegetable oil or blends of vegetable oil and distillate fuel oil, PM_{10} emissions shall not exceed 0.07 pounds per million Btu heat input. This condition, along with the vegetable oil usage limit, limits increases in PM_{10} 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.2.6 General Provisions Relating to NESHAP [326 IAC 20-1][40 CFR Part 63, Subpart A]

The provisions of 40 CFR 63 Subpart A - General Provisions, which are incorporated as 326 IAC 20-1-1, apply to the affected source, as designated by 40 CFR 63.7506(b). The Permittee must comply with these requirements on and after the effective date of 40 CFR 63, Subpart DDDDD.

D.2.7 National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers and Process Heaters [40 CFR Part 63, Subpart DDDDD]

(a) The affected source is subject to the National Emission Standards for Hazardous Air Pollutants (NESHAP) for Industrial, Commercial, and Institutional Boilers and Process Heaters, (40 CFR 63, Subpart DDDDD), as of the effective date of 40 CFR 63, Subpart DDDDD. Pursuant to this rule, the Permittee must comply with 40 CFR 63, Subpart DDDDD on and after three years after the effective date of 40 CFR 63, Subpart DDDDD.

(b) The following emissions units comprise the affected source for the large liquid fuel subcategory: four (4) boilers, EU39, EU40, EU41, and EU42.

(c) The definitions of 40 CFR 63, Subpart DDDDD at 40 CFR 63.7575 are applicable to the affected source.

D.2.8 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 this facility and its control device.

Compliance Determination Requirements

D.2.9 Sulfur Dioxide Emissions and Sulfur Content

Pursuant to 40 CFR 60, Subpart Dc, the Permittee shall demonstrate compliance for boiler #3 (EU41) and the refinery boiler (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.2.10 Sulfur Dioxide Emissions and Sulfur Content

Compliance shall be determined for boiler #1 (EU39) and boiler #2 (EU40) 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 from boiler #1 (EU39) and boiler #2 (EU40), 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.2.11 Testing Requirements [326 IAC 2-7-6(1),(6)][326 IAC 2-1.1-11]

In order to demonstrate compliance with Condition D.2.5(c), no later than 180 days from the commencement of soybean oil combustion, the Permittee shall conduct performance tests for PM_{10} on either boiler #1 or boiler #3 during soybean oil combustion, and furnish the Commissioner a written report of the results of such performance tests.

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

D.2.12 Visible Emissions Notations

(a) Visible emission notations of the boiler #1 (EU39), boiler #2 (EU40), boiler #3 (EU41) and refinery boiler (EU42) stack exhausts shall be performed once per day, when combusting fuel oil and/or vegetable oil, during normal daylight operations when exhausting to the atmosphere. 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.2.13 Record Keeping Requirements

(a) To document compliance with Conditions D.2.3, 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 60 Subpart Dc, the fuel oil sulfur limit for boiler #3 (EU41) and the refinery boiler (EU42) 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 in boiler #2 (EU40) 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.

(b) The Permittee shall maintain records sufficient to verify compliance with the procedures specified in conditions D.2.9 and D.2.10. Records shall be maintained for a period of five (5) years and shall be made available upon request by IDEM.

(c) To document compliance with Condition D.2.12, the Permittee shall maintain records of visible emission notations of the boiler #1 (EU39), boiler #2 (EU40), boiler #3 (EU41) and refinery boiler (EU42) stack exhausts once per day when combusting fuel oil and/or vegetable oil.

(d) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

D.2.14 National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers and Process Heaters - Notification Requirements [40 CFR 63, Subpart DDDDD]

(a) Pursuant to 40 CFR 63.7545(a) and 40 CFR 63.7506(b), the Permittee shall submit an Initial Notification containing the information specified in 40 CFR 63.9(b)(2) not later than 120 days after the effective date of 40 CFR 63, Subpart DDDDD as required by 40 CFR 63.7545(b).

(b) The notification required by paragraph (a) shall be submitted to:

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

and

United States Environmental Protection Agency, Region V
Director, Air and Radiation Division
77 West Jackson Boulevard
Chicago, Illinois 60604-3590

The notification requires the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

D.2.15 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 Condition D.2.5 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 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]

(ee) The following activities with emissions equal to or less than insignificant thresholds:
(1) one (1) silica clay storage silo, identified as EU44, with particulate emissions controlled by a baghouse (RC-2), exhausting through one (1) stack (EP19). [326 IAC 6-3-2]

(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°C) (one hundred degrees Fahrenheit (100°F)), 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°C) (one hundred degrees Fahrenheit (100°F)), or if the solvent is heated to a temperature greater than forty-eight and nine-tenths degrees Celsius (48.9^{O}C) (one hundred twenty degrees Fahrenheit (120°F)):

(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 of 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.

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
Indianapolis, IN 46204-2251
Phone: 317-233-5674
Fax: 317-233-5967

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**

☐ This is an emergency as defined in 326 IAC 2-7-1(12)

- The Permittee must notify the Office of Air Quality (OAQ), within four (**4**) business hours (1-800-451-6027 or 317-233-5674, ask for Compliance Section); and
- The Permittee must submit notice in writing or by facsimile within two (**2**) working days (Facsimile Number: 317-233-5967), 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, SO2, VOC, NOX, 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: SO_2 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 SO_2 emissions are limited to less than 25 tons per year.

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: PM_{10} 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.

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 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".

☐ NO DEVIATIONS OCCURRED THIS REPORTING PERIOD.

☐ 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 Significant Source Modification and a Significant Permit Modification to a Part 70 Operating Permit

Source Background and Description

Source Name:	**Archer Daniels Midland Company**
Source Location:	**2191 W. County Road 0 N/S, Frankfort, IN 46041-8746**
County:	**Clinton**
SIC Code:	**2075**
Operating Permit No.:	**023-6066-00011**
Operating Permit Issuance Date:	**July 13, 2004**
Source Modification No.:	**023-21838-00011**
Permit Modification No.:	**023-21909-00011**
Permit Reviewer:	**Allen R. Davidson**

The Office of Air Quality (OAQ) has reviewed an application from Archer Daniels Midland Company relating to the operation of a soybean processing plant located at 2191 West County Road 0 N/S, Frankfort, IN 46041-8746. The application involves a request to use vegetable oil, or blends of vegetable oil and distillate fuel oil, as fuel in two of the plant's existing boilers.

History

Archer Daniels Midland Company was issued a Part 70 operating permit (023-6066-00011) on July 13, 2004. The permit has since received the following revisions:

(a) Minor Source Modification 023-20324-00011, issued on December 20, 2004, which authorized the replacement of the existing rail bean dump pit discharge conveyor with a new drag conveyor.

(b) Minor Permit Modification 023-20324-00011, issued on February 17, 2005, which incorporated Minor Source Modification 023-20324-00011 into the Part 70 operating permit.

Significant Source Modification 023-21838-00011 and Significant Permit Modification 023-21909-00011 will be the third and fourth revisions to the Part 70 operating permit, respectively.

Proposed Changes to Permit

The following changes are being proposed to Part 70 Permit 023-6066-00011:

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:

(Items (a) through (mm) remain unchanged.)

(nn) 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);

(oo) Boiler #2, identified as EU40, constructed in 1987, firing natural gas or No. 2 distillate fuel oil, exhausting to one (1) stack (EP16);

(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).

Note: The maximum capacities of the above listed emission units ~~is~~ **are** confidential trade secret information.

B.10 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
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) ~~The Permittee shall implement the PMPs, including any required record keeping as necessary to ensure that failure to implement a PMP does not cause or contribute to an exceedance of any limitation on emissions or potential to emit.~~

~~(c)~~ 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).

~~(d)~~ **(c)** To the extent the Permittee is required by 40 CFR Part 60/63 to have an Operation Maintenance, and Monitoring (OMM) Plan for a unit, such Plan is deemed to satisfy the PMP requirements of 326 IAC 1-6-3 for that unit.

B.11 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: 317-233-5674 (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~~, P. O. Box 6015~~
Indianapolis, ~~Indiana 46206-6015~~ **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.19 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 ~~emissions allowable under~~ **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~~, P. O. Box 6015~~
Indianapolis, ~~Indiana 46206-6015~~ **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~~, on a rolling five (5) year basis,~~ all such changes and ~~emissions trading~~ **emission trades** that are subject to 326 IAC 2-7-20(b), (c), or (e)**. The Permittee shall make** ~~and makes~~ 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.24 Credible Evidence [326 IAC 2-7-5(3)][326 IAC 2-7-6][62 FR 8314]**[326 IAC 1-1-6]**

~~Notwithstanding the conditions of this permit that state specific methods that may be used to demonstrate compliance with, or a violation of, applicable requirements, any person (including the Permittee) may also use other credible evidence to demonstrate compliance with, or a violation of, any term or condition of this permit.~~

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.

C.1 Particulate Emission Limitations For Processes with Process Weight Rates Less Than One Hundred (100) Pounds per Hour ~~[40 CFR 52 Subpart P]~~[326 IAC 6-3-2]

~~(a) Pursuant to 40 CFR 52 Subpart P, particulate matter emissions from any process not already regulated by 326 IAC 6-1 or any New Source Performance Standard, and which has a maximum process weight rate less than 100 pounds per hour shall not exceed 0.551 pounds per hour.~~

~~(b)~~ 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. ~~This condition is not federally enforceable.~~

~~C.6 Operation of Equipment [326 IAC 2-7-6(6)]~~

~~Except as otherwise provided by statute or rule, or in this permit, all air pollution control equipment listed in this permit and used to comply with an applicable requirement shall be operated at all times that the emission unit(s) vented to the control equipment is (are) in operation.~~

(Subsequent conditions have been renumbered.)

C.12 ~~C.13~~ ~~Pressure Gauge and Other~~ Instrument Specifications [326 IAC 2-1.1-11] [326 IAC 2-7-5(3)] [326 IAC 2-7-6(1)]

(a) ~~Whenever a condition in this permit requires the measurement of pressure drop across any part of the unit or its control device, the gauge employed~~ **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 ~~normal reading~~ **maximum reading for the normal range** shall be no less than twenty percent (20%) of full scale ~~and be accurate within plus or minus two percent (±2%) of full scale reading~~.

(b) ~~Whenever a condition in this permit requires the measurement of a temperature or flow rate, the instrument employed shall have a scale such that the expected normal reading shall be no less than twenty percent (20%) of full scale and be accurate within plus or minus two percent (2%) of full scale reading.~~

~~(c)~~ The Permittee may request **that** the IDEM, OAQ approve the use of ~~a pressure gauge or other~~ **an** instrument that does not meet the above specifications provided the Permittee can demonstrate **that** an alternative ~~pressure gauge or other~~ instrument specification will adequately ensure compliance with permit conditions requiring the measurement of ~~pressure drop or other~~ **the** parameters.

C.15 ~~C.16 Compliance Response Plan - Preparation, Implementation, Records, and Reports~~
Response to Excursions or Exceedances [326 IAC 2-7-5] [326 IAC 2-7-6]

~~(a) The Permittee is required to prepare a Compliance Response Plan (CRP) for each compliance monitoring condition of this permit. If a Permittee is required to have an Operation, Maintenance and Monitoring (OMM) Plan (or Parametric Monitoring Plan and Start-up, Shutdown, and Malfunction (SSM) Plan) under 40 CFR 60/63, such plans shall be deemed to satisfy the requirements for a CRP for those compliance monitoring conditions. A CRP shall be submitted to IDEM, upon request. The CRP shall be prepared within ninety (90) days after issuance of this permit by the Permittee, supplemented from time to time by the Permittee, maintained on site, and comprised of:~~

~~(1) Reasonable response steps that may be implemented in the event that a response step is needed pursuant to the requirements of Section D of this permit; and an expected timeframe for taking reasonable response steps.~~

~~(2) If, at any time, the Permittee takes reasonable response steps that are not set forth in the Permittee's current Compliance Response Plan or Operation, Maintenance and Monitoring (OMM) Plan (or Parametric Monitoring Plan and Start-up, Shutdown, and Malfunction (SSM) Plan) and the Permittee documents such response in accordance with subsection (e) below, the Permittee shall amend its Compliance Response Plan or Operation, Maintenance and Monitoring (OMM) Plan (or Parametric Monitoring Plan and Start-up, Shutdown, and Malfunction (SSM) Plan) to include such response steps taken.~~

~~(b) For each compliance monitoring condition of this permit, reasonable response steps shall be taken when indicated by the provisions of that compliance monitoring condition as follows:~~

~~(1) Reasonable response steps shall be taken as set forth in the Permittee's current Compliance Response Plan or Operation, Maintenance and Monitoring (OMM) Plan (or Parametric Monitoring Plan and Start-up, Shutdown, and Malfunction (SSM) Plan); or~~

~~(2) If none of the reasonable response steps listed in the Compliance Response Plan or Operation, Maintenance and Monitoring (OMM) Plan (or Parametric Monitoring Plan and Start-up, Shutdown, and Malfunction (SSM) Plan) is applicable or responsive to the excursion, the Permittee shall devise and implement additional response steps as expeditiously as practical. Taking such additional response steps shall not be considered a deviation from this permit so long as the Permittee documents such response steps in accordance with this condition.~~

~~(3) If the Permittee determines that additional response steps would necessitate that the emissions unit or control device be shut down, and it will be ten (10) days or more until the unit or device will be shut down, then the Permittee shall promptly notify the IDEM, OAQ of the expected date of the shut down. The notification shall also include the status of the applicable compliance monitoring parameter with respect to normal, and the results of the response actions taken up to the time of notification.~~

~~(4) Failure to take reasonable response steps shall be considered a deviation from the permit.~~

~~(c) The Permittee is not required to take any further response steps for any of the following reasons:~~

~~(1) A false reading occurs due to the malfunction of the monitoring equipment and prompt action was taken to correct the monitoring equipment.~~

~~(2) The Permittee has determined that the compliance monitoring parameters established in the permit conditions are technically inappropriate, has previously submitted a request for a minor permit modification to the permit, and such request has not been denied.~~

~~(3) An automatic measurement was taken when the process was not operating.~~

~~(4) The process has already returned or is returning to operating within "normal" parameters and no response steps are required.~~

~~(d) When implementing reasonable steps in response to a compliance monitoring condition, if the Permittee determines that an exceedance of an emission limitation has occurred, the Permittee shall report such deviations pursuant to Section B-Deviations from Permit Requirements and Conditions.~~

~~(e) The Permittee shall record all instances when, in accordance with Section D, response steps are taken. In the event of an emergency, the provisions of 326 IAC 2-7-16 (Emergency Provisions) requiring prompt corrective action to mitigate emissions shall prevail.~~

~~(f) Except as otherwise provided by a rule or provided specifically in Section D, all monitoring as required in Section D shall be performed when the emission unit is operating, except for time necessary to perform quality assurance and maintenance activities.~~

(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.

D.1.12 Particulate Control

(a) In order to comply with conditions D.1.2 and D.1.5, baghouses CE-05, ML-1, BH-2 and CE-21 and cyclones CE-06, CE-07, CE-09, CE-10, CE-11, CE-18, CE-19, and CE-20 for particulate control shall be in operation and control emissions from the associated facilities at all times that the associated facilities are in operation.

(b) In order to comply with condition D.1.2, baghouse GR-1 for particulate control shall be in operation and control emissions from the rail unloading operation (EU01) at all times that the rail unloading operation is in operation.

(c) In the event that bag failure is observed in a multi-compartment baghouse, if operations will continue for ten (10) days or more after the failure is observed before the failed units will be repaired or replaced, the Permittee shall promptly notify the IDEM, OAQ of the expected date the failed units will be repaired or replaced. The notification shall also include the status of the applicable compliance monitoring parameters with respect to normal, and the results of any response actions taken up to the time of notification.

D.1.15 Visible Emissions Notations

(a) Visible emission notations of the stack exhausts for baghouses GR-1, CE-05, BH-2, ML-1, MC-1, RCB, and CE-21 and the stack exhausts for cyclones CE-06, CE-07, CE-08, CE-09, CE-10, and CE-11 shall be performed once per ~~shift~~ **day** during normal daylight operations when exhausting to the atmosphere. 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) ~~The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when an abnormal emission is observed.~~ **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 ~~- Preparation, Implementation, Records, and Reports~~ **Response to Excursions or Exceedances**, shall be considered a deviation from this permit.

D.1.16 Parametric Monitoring

The Permittee shall record the ~~total static~~ pressure drop across each of the baghouses GR-1, CE-05, BH-2, ML-1, MC-1, RCB, and CE-21 used in conjunction with emission units EU-01 through EU-05, EU-07, EU-09, EU-16 through EU-19, EU-22, EU-26 through EU-32, EU-34 through EU-37, and EU-43, at least once per ~~shift~~ **day** when these emission units are in operation when venting to the atmosphere. 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- ~~Preparation, Implementation, Records, and Reports~~ **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 - ~~Preparation, Implementation, Records, and Reports~~ **Response to Excursions or Exceedances**, shall be considered a deviation from this permit.

The instrument used for determining the pressure shall comply with Section C - ~~Pressure Gauge and Other~~ 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.1.17 Baghouse Inspections~~

~~(a) An internal inspection shall be performed annually of all bags controlling emission units EU-01 through EU-05, EU-07, EU-09, EU-16 through EU-19, EU-22, EU-26 through EU-32, EU-34 through EU-37, and EU-43 when venting to the atmosphere. A baghouse inspection shall be performed within three months of redirecting vents to the atmosphere and every three months thereafter. Inspections are optional when venting to the indoors. All defective bags shall be replaced.~~

~~(b) An inspection of external components and ductwork shall be performed each calendar quarter of the baghouses controlling emission units EU-01 through EU-05, EU-07, EU-09, EU-16 through EU-19, EU-22, EU-26 through EU-32, EU-34 through EU-37, and EU-43 when venting to the atmosphere. Inspections required by this condition shall not be performed in consecutive months.~~

(Subsequent conditions have been renumbered.)

D.1.17 ~~D.1.18~~ Broken or Failed Bag Detection

~~In the event that bag failure has been observed:~~

(a) ~~For multi-compartment units, the affected compartments will be shut down immediately until the failed units have been repaired or replaced. Within eight (8) business hours of the determination of failure, response steps according to the timetable described in the Compliance Response Plan shall be initiated. For any failure with corresponding response steps and timetable not described in the Compliance Response Plan, response steps shall be devised within eight (8) business hours of discovery of the failure and shall include a timetable for completion. Failure to take response steps in accordance with Section C - Preparation, Implementation, Records, and Reports, shall be considered a deviation from this permit. If operations continue after bag failure is observed and it will be 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.~~

~~(b)~~ For ~~single compartment baghouses, if failure is indicated by a significant drop in the baghouse's pressure readings with abnormal visible emissions or the failure is indicated by an opacity violation, or if bag failure is determined by other means, such as gas temperatures, flow rates, air infiltration, leaks, dust traces or triboflows, then failed units~~ **a single compartment baghouse controlling emissions from a process operated continuously, a failed unit** and the associated process ~~will~~ **shall** be shut down immediately until the failed ~~units have~~ **unit has** been repaired or replaced. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).

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

Bag failure 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.1.19 Cyclone Inspections~~

~~(a) An internal inspection shall be performed annually of all cyclones controlling emission units EU-07, EU-09 through EU-14, and EU-16 through EU-25 when venting to the atmosphere. A cyclone inspection shall be performed within three months of redirecting vents to the atmosphere and every three months thereafter. Inspections are optional when venting to the indoors.~~

~~(b) An inspection of external components and ductwork shall be performed each calendar quarter of all cyclones controlling emission units EU-07, EU-09 through EU-14, and EU-16 through EU-25 when venting to the atmosphere. Inspections required by this condition shall not be performed in consecutive months.~~

D.1.21 ~~D.1.23~~ Record Keeping Requirements

(a) To demonstrate compliance with the final VOC SLR limits at this oilseed plant pursuant to condition D.1.6, 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.1.15, the Permittee shall maintain records of once per ~~shift~~ **day** visible emission notations of the stack exhausts for baghouses GR-1, CE-05, BH-2, ML-1, MC-1, RCB, and CE-21 and the stack exhausts for cyclones CE-06, CE-07, CE-08, CE-09, CE-10, and CE-11.

(c) To document compliance with Condition D.1.16, the Permittee shall maintain records once per ~~shift~~ **day** of the ~~total static~~ pressure drop for each baghouse during normal operation when venting to the atmosphere.

(d) ~~To document compliance with Conditions D.1.17 and D.1.19, the Permittee shall maintain records of the results of the inspections required under Conditions D.1.17 and D.1.19 and the dates the vents are redirected.~~

~~(e)~~ To document compliance with Condition **D.1.19** ~~D.1.21~~, the Permittee shall maintain records once per day of the following for the mineral oil scrubber:

(1) the total static 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.

~~(f) To document compliance with Condition D.1.7, the Permittee shall maintain of records of any additional inspections prescribed by the Preventive Maintenance Plan.~~

~~(g)~~ **(e)** All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

D.2.5 Distillate Fuel Oil **/ Vegetable Oil** Usage ~~Limitation~~ **Limitations** [326 IAC 1-7] **[326 IAC 2-2]**

(a) Pursuant to OP 12-09-90-0136, issued on January 18, 1988, 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 SO_2 emissions are limited to less than 25 tons per year. ~~Therefore, 326 IAC 1-7 does not apply.~~ **Compliance with this usage limit shall render 326 IAC 1-7 as not applicable.**

(b) 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. 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.

(c) For boiler #1 and boiler #3, when burning vegetable oil or blends of vegetable oil and distillate fuel oil, PM_{10} emissions shall not exceed 0.07 pounds per million Btu heat input. This condition, along with the vegetable oil usage limit, limits increases in PM_{10} 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.2.9 Sulfur Dioxide Emissions and Sulfur Content

Pursuant to 40 CFR 60, Subpart Dc, the Permittee shall demonstrate compliance for boiler #3 (EU41) and the refinery boiler (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) ~~Oil~~ **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.2.10 Sulfur Dioxide Emissions and Sulfur Content

Compliance shall be determined for boiler #1 (EU39) and boiler #2 (EU40) 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) ~~Oil~~ **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 from boiler #1 (EU39) and boiler #2 (EU40), 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.2.11 Testing Requirements [326 IAC 2-7-6(1),(6)][326 IAC 2-1.1-11]

In order to demonstrate compliance with Condition D.2.5(c), no later than 180 days from the commencement of vegetable oil combustion, the Permittee shall conduct performance tests for PM_{10} on either boiler #1 or boiler #3 during vegetable oil combustion, and furnish the Commissioner a written report of the results of such performance tests. Testing shall be conducted in accordance with Section C - Performance Testing.

(Subsequent conditions have been renumbered.)

~~D.2.11~~ **D.2.12** Visible Emissions Notations

(a) Visible emission notations of the boiler #1 (EU39), boiler #2 (EU40), boiler #3 (EU41) and refinery boiler (EU42) stack exhausts shall be performed once per ~~shift~~ **day**, when combusting fuel oil **and/or vegetable oil**, during normal daylight operations when exhausting to the atmosphere. 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) ~~The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when an abnormal emission is observed.~~ **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 - ~~Compliance Response Plan - Preparation, Implementation, Records, and Reports~~ **Response to Excursions or Exceedances**, shall be considered a deviation from this permit.

~~D.2.12~~ **D.2.13** Record Keeping Requirements

(a) To document compliance with Conditions D.2.3, D.2.4, and D.2.5, the Permittee shall maintain records in accordance with (1) through ~~(6)~~ **(7)** below. Note that pursuant to 40 CFR 60 Subpart Dc, the fuel oil sulfur limit for boiler #3 (EU41) and the refinery boiler (EU42) 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 in boiler #2 (EU40) 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 ~~alternate fuels~~ **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; ~~and~~

(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.

(b) The Permittee shall maintain records sufficient to verify compliance with the procedures specified in conditions D.2.9 and D.2.10. Records shall be maintained for a period of five (5) years and shall be made available upon request by IDEM.

(c) To document compliance with Condition ~~D.2.11~~ **D.2.12**, the Permittee shall maintain records of visible emission notations of the boiler #1 (EU39), boiler #2 (EU40), boiler #3 (EU41) and refinery boiler (EU42) stack exhausts once per ~~shift~~ **day** when combusting fuel oil **and/or vegetable oil**.

(d) ~~To document compliance with Condition D.2.8, the Permittee shall maintain of records of any additional inspections prescribed by the Preventive Maintenance Plan.~~

~~(e)~~ All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

Furthermore, the following administrative changes are being made to the permit:

(a) All instances of "2191 West County Road, O N/S" will be replaced with "2191 West County Road 0 N/S".

(b) All instances of "P. O. Box 6015" will be deleted.

(c) All instances of "Indianapolis, Indiana 46206-6015" will be replaced with "Indianapolis, IN 46204-2251".

(d) All instances of "Compliance Response Plan - Preparation, Implementation, Records, and Reports" will be replaced with "Response to Excursions or Exceedances".

(e) All instances of "Pressure Gauge and Other Instrument Specifications" will be replaced with "Instrument Specifications".

(f) The facility description in Section D.2 will be amended as follows:

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

(nn) 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);

(oo) Boiler #2, identified as EU40, constructed in 1987, firing natural gas or No. 2 distillate fuel oil, exhausting to one (1) stack (EP16);

(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).

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

Enforcement Issues

There are no pending enforcement actions related to this modification.

Recommendation

The staff recommends to the Commissioner that the applicant be issued a Significant Source Modification and a Significant Permit Modification. This recommendation is based on the following facts and conditions:

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

An administratively complete application for the purposes of this review was received on October 3, 2005.

Emission Calculations

The emission calculations are based on emission tests conducted March 16, 2001, on the Boiler #3 stack at the Archer Daniels Midland facility in Quincy, IL. However, the applicant has requested that OAQ use a higher emission estimate for particulate matter (PM) and particulate matter less than ten (10) microns (PM_{10}) than the emission test data suggests, in order to provide a larger safety margin for error. See Appendix A of this document for detailed emission calculations (1 page).

Potential to Emit

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

The following table reflects the existing source potential to emit. Control equipment is not considered federally enforceable until it has been required in a federally enforceable permit:

Pollutant	Potential to Emit (tons/yr)
PM	greater than 250
PM_{10}	greater than 250
SO_2	greater than 250
VOC	greater than 250
CO	less than 100
NO_x	greater than 100, less than 250

HAPs	Potential to Emit (tons/yr)
Hexane	greater than 10
Formaldehyde	less than 10
Selenium	less than 10
Manganese	less than 10
Total	greater than 25

The source is subject to the provisions of 326 IAC 2-7 due to the following:

(a) The potential to emit (as defined in 326 IAC 2-7-1(29)) of criteria pollutants are equal to or greater than 100 tons per year.

(b) The potential to emit of a single HAP is equal to or greater than ten (10) tons per year.

(c) The potential to emit of a combination of HAPs is equal to or greater than twenty-five (25) tons per year.

This source is a major source for Prevention of Significant Deterioration, 326 IAC 2-2. Although it is not in one of the 28 listed source categories, attainment regulated pollutants are emitted at a rate of 250 tons per year or more.

The potential to emit of this modification, before controls and limits, is as follows:

Pollutant	Potential to Emit (tons/yr)
PM	35.4
PM_{10}	35.4
SO_2	0.0
VOC	0.0
CO	0.0
NO_x	3.9

HAPs	Potential to Emit (tons/yr)
Total	0.0

Justification for Significant Source Modification

The source modification involves changes in the method of operation where the increase in potential to emit is greater than twenty-five (25) tons per year of both particulate matter (PM) and particulate matter less than ten (10) microns (PM_{10}). As a result, this change is classifiable as a significant source modification under 326 IAC 2-7-10.5(f)(4).

Justification for Significant Permit Modification

The permit modification seeks to establish a Part 70 permit term or condition for which there is no corresponding underlying applicable requirement and that the source has assumed to avoid the applicability of Prevention of Significant Deterioration (PSD), 326 IAC 2-2. As a result, this change cannot be processed as an administrative amendment under 326 IAC 2-7-11 and is expressly prohibited from being processed as a minor permit modification under 2-7-12(b). It must be processed as a significant permit modification under 326 IAC 2-7-12(d).

Potential to Emit After Issuance

The table below summarizes the potential to emit, reflecting all limits of the emission units:

Emission Unit	PM	PM_{10}	SO2	NO_X	VOC	CO
Boiler #1 (EU39) & Boiler #3 (EU41) (combined vegetable oil usage limit)	14.7	14.7	0.0	2.6	0.0	0.0
Total	14.7	14.7	0.0	2.6	0.0	0.0

The potential to emit (as defined in 326 IAC 2-7-1(29)) of any single hazardous air pollutant (HAP) from this revision is zero (0) tons per year.

County Attainment Status

The source is located in Clinton County.

Pollutant	Status
PM_{10}	attainment
$PM_{2.5}$	attainment
SO_2	attainment
NO_2	attainment
Ozone (1-hour)	attainment
Ozone (8-hour)	attainment
CO	attainment
Lead	attainment

(a) Clinton County has been classified as attainment or unclassifiable 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 PM_{10} emissions as a surrogate for $PM_{2.5}$ emissions.

(b) Volatile organic compounds (VOC) and nitrogen oxides (NOx) are regulated under the Clean Air Act (CAA) for the purposes of attaining and maintaining the National Ambient Air Quality Standards (NAAQS) for ozone. Therefore, VOC and NOx 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.

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

See "State Rule Applicability – Entire Source" for more details regarding PSD rule applicability.

Federal Rule Applicability

326 IAC 12 and 40 CFR 60 (New Source Performance Standards (NSPS))

(a) Boiler #1, constructed in 1960, is not subject to the requirements of the New Source Performance Standards (NSPS), 326 IAC 12 (40 CFR 60, Subparts D, Da, Db, and Dc) because it was constructed prior to the earliest rule applicability date of August 17, 1971.

(b) Boiler #3 is subject to the requirements of the New Source Performance Standards (NSPS), 326 IAC 12 (40 CFR 60, Subpart Dc). The boiler was constructed after June 9, 1989 and the maximum heat input capacity is between 10 and 100 MMBtu per hour. Pursuant to this rule:

(1) The SO_2 emissions from boiler #3 shall not exceed five tenths (0.5) pounds per million Btu heat input; or

(2) 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 60 Subpart Dc, the fuel oil sulfur content limit applies at all times, including periods of startup, shutdown, and malfunction.

There are no requirements in 40 CFR 60 Subpart Dc specifically related to vegetable oil combustion. Pure vegetable oil does not conform to the definition of "oil" under 326 IAC 40 CFR 60.41c because it is not petroleum based. Therefore, the fuel oil limits apply only to burning distillate fuel or blends of vegetable oil and distillate fuel oil.

326 IAC 14 and 40 CFR 63 (National Emission Standards for Hazardous Air Pollutants (NESHAP))

The emission source is subject to the National Emission Standards for Hazardous Air Pollutants (NESHAP) for Industrial, Commercial, and Institutional Boilers and Process Heaters, (40 CFR 63, Subpart DDDDD), as of September 13, 2004. Pursuant to this rule, the Permittee must comply with 40 CFR 63, Subpart DDDDD on and after September 13, 2007.

Boiler #1 and boiler #3 are classified as existing liquid fuel boilers under this NESHAP. Vegetable oil combustion does not change the classification, and the applicability date remains unchanged as a result of this modification.

State Rule Applicability – Entire Source

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

This existing source is a major source for Prevention of Significant Deterioration, 326 IAC 2-2. Attainment regulated pollutants are emitted at a rate of 250 tons per year or more.

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. 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. For boiler #1 and boiler #3, 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. These conditions limit increases in PM_{10} emissions due to vegetable oil combustion to less than 15 tons per year. Therefore, 326 IAC 2-2 does not apply.

326 IAC 2-4.1 (Major Sources of Hazardous Air Pollutants)

This source is not subject to 326 IAC 2-4.1-1 (New Source Toxics Control). The source was existing as of July 27, 1997. Also, the revision by itself does not have the potential to emit HAPs.

326 IAC 2-6 (Emission Reporting)

Since this source is required to have an operating permit under 326 IAC 2-7, this source is subject to 326 IAC 2-6 (Emission Reporting). The source has a potential to emit greater than the thresholds in 326 IAC 2-6-3(a)(1). Therefore, an emission statement covering the previous calendar year must be submitted by July 1 annually. The emission statement shall contain, at a minimum, the information specified in 326 IAC 2-6-4.

326 IAC 5-1 (Opacity Limitations)

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

(a) Opacity shall not exceed an average of forty percent (40%) in any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.

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

State Rule Applicability – Boiler #1

326 IAC 6-2-3 (Particulate Emission Limitations for Sources of Indirect Heating)

Boiler #1 is subject to 326 IAC 6-2-3. Pursuant to 326 IAC 6-2-3 (Particulate Emission Limitations for Sources of Indirect Heating), PM emissions from the boiler 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.

326 IAC 7-1.1 (SO_2 Emissions Limitations)

Boiler #1 is subject to 326 IAC 7-1.1. Pursuant to 326 IAC 7-1.1 (SO_2 Emissions Limitations), SO_2 emissions shall not exceed five tenths (0.5) pound per MMBtu heat input for distillate oil combustion and for combusting distillate oil and any fuel other than coal simultaneously. Pursuant to 326 IAC 7-2-1, compliance shall be demonstrated on a calendar month average.

State Rule Applicability – Boiler #3

Boiler #3 is subject to 326 IAC 6-2-4. Pursuant to 326 IAC 6-2-4 (Particulate Emission Limitations for Sources of Indirect Heating) the PM from the boiler shall be limited to 0.28 pounds per MMBtu heat input.

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.

326 IAC 7-1.1 (SO_2 Emissions Limitations)

Boiler #3 is subject to 326 IAC 7-1.1. Pursuant to 326 IAC 7-1.1 (SO_2 Emissions Limitations), SO_2 emissions shall not exceed five tenths (0.5) pound per MMBtu heat input for distillate oil combustion and for combusting distillate oil and any fuel other than coal simultaneously. Pursuant to 326 IAC 7-2-1, compliance shall be demonstrated on a calendar month average.

Conclusion

The use of vegetable oil, or blends of vegetable oil and distillate fuel oil, as fuel in Boiler #1 and Boiler #3 shall be subject to the conditions of Significant Source Modification 023-21838-00011 and Significant Permit Modification 023-21909-00011.

Appendix A: Emissions Calculations

Company Name: Archer Daniels Midland Company
Address City IN Zip: 2191 W CR 0 N/S, Frankfort IN 46041
ID: 023-21838-00011
Reviewer: Allen R. Davidson
Date: 12/27/05

62.5 MMBtu/hr (Boiler #1)

	NG / #2 fuel oil ton / year	veg. oil emission factor	veg. oil ton / year	Change in emissions ton / year
PM:	3.91 tons/year	0.07 lb/MMBtu	19.16 tons/year	15.25 tons/year
PM_{10}:	3.91 tons/year	0.07 lb/MMBtu	19.16 tons/year	15.25 tons/year
SO_2:	138.83 tons/year	0.001 lb/MMBtu	0.27 tons/year	-138.56 tons/year
NOx:	46.93 tons/year	0.1776 lb/MMBtu	48.62 tons/year	1.69 tons/year
VOC:	1.51 tons/year	*	*	0.00 tons/year
CO:	23.00 tons/year	0.0047 lb/MMBtu	1.29 tons/year	-21.71 tons/year

82.5 MMBtu/hr (Boiler #3)

	NG / #2 fuel oil ton / year	veg. oil emission factor	veg. oil ton / year	Change in emissions ton / year
PM:	5.16 tons/year	0.07 lb/MMBtu	25.29 tons/year	20.13 tons/year
PM_{10}:	5.16 tons/year	0.07 lb/MMBtu	25.29 tons/year	20.13 tons/year
SO_2:	183.26 tons/year	0.001 lb/MMBtu	0.36 tons/year	-182.89 tons/year
NOx:	61.95 tons/year	0.1776 lb/MMBtu	64.18 tons/year	2.23 tons/year
VOC:	1.99 tons/year	*	*	0.00 tons/year
CO:	30.35 tons/year	0.0047 lb/MMBtu	1.70 tons/year	-28.66 tons/year

*Notes:
VOC emissions are expected to decrease since vegetable oil is less volatile than #2 fuel oil.
The decrease is not quantified in these calculations.

	Change in emissions ton / year
PM:	35.38 tons/year
PM_{10}:	35.38 tons/year
SO_2:	-321.45 tons/year
NOx:	3.92 tons/year
VOC:	0.00 tons/year
CO:	-50.36 tons/year

To limit PM_{10} emissions below 15 tons per year:

$$\frac{145\ \text{MMBtu}}{\text{hr}} * \frac{\text{lb}}{16915\ \text{Btu}} * \frac{\text{gal}}{7.6\ \text{lb}} * \frac{15\ \text{(ratio)}}{35.38} * \frac{8760\ \text{hr}}{\text{yr}} = \frac{4{,}188{,}595\ \text{gal}}{\text{yr}}$$

Vegetable oil usage will be limited to 4,100,000 gal/yr to render PSD not applicable:

$$\frac{4{,}100{,}000\ \text{gal}}{\text{yr}} * \frac{16915\ \text{Btu}}{\text{lb}} * \frac{7.6\ \text{lb}}{\text{gal}} * \frac{\text{MMBtu}}{1{,}000{,}000\ \text{Btu}} * \frac{\text{yr}}{8760\ \text{hr}} = \frac{60.17\ \text{MMBtu}}{\text{hr}}$$

60.17 MMBtu/hr (limited average)

	NG / #2 fuel oil ton / year	veg. oil emission factor	veg. oil ton / year	Change in emissions ton / year
PM:	3.76 tons/year	0.07 lb/MMBtu	18.45 tons/year	14.68 tons/year
PM_{10}:	3.76 tons/year	0.07 lb/MMBtu	18.45 tons/year	14.68 tons/year
SO_2:	133.65 tons/year	0.001 lb/MMBtu	0.26 tons/year	-133.39 tons/year
NOx:	45.18 tons/year	0.1776 lb/MMBtu	46.80 tons/year	1.63 tons/year
VOC:	1.45 tons/year	*	*	0.00 tons/year
CO:	22.14 tons/year	0.0047 lb/MMBtu	1.24 tons/year	-20.90 tons/year