



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

We Protect Hoosiers and Our Environment.

Mitchell E. Daniels Jr.
Governor

Thomas W. Easterly
Commissioner

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

TO: Interested Parties / Applicant

DATE: July 29, 2011

RE: Bunge North America (East), LLC / 001-29887-00005

FROM: Matthew Stuckey, Branch Chief
Permits Branch
Office of Air Quality

Notice of Decision: Approval – Effective Immediately

Please be advised that on behalf of the Commissioner of the Department of Environmental Management, I have issued a decision regarding the enclosed matter. Pursuant to IC 13-17-3-4 and 326 IAC 2, this permit modification is effective immediately, unless a petition for stay of effectiveness is filed and granted, and may be revoked or modified in accordance with the provisions of IC 13-15-7-1.

If you wish to challenge this decision, IC 4-21.5-3-7 and IC 13-15-7-3 require that you file a petition for administrative review. This petition may include a request for stay of effectiveness and must be submitted to the Office Environmental Adjudication, 100 North Senate Avenue, Government Center North, Suite N 501E, Indianapolis, IN 46204, **within eighteen (18) days of the mailing of this notice**. The filing of a petition for administrative review is complete on the earliest of the following dates that apply to the filing:

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

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

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

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

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

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

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



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Ms. Christine Thomas
Bunge North America (East), LLC
1200 N. 2nd Street
Decatur, IN 46733

July 29, 2011

Re: 001-29887-00005
Significant Permit Modification to
Part 70 Renewal No.: T 001-23640-00005

Dear Ms. Thomas:

Bunge North America (East), LLC (Bunge) was issued a Part 70 Operating Permit Renewal (T 001-23640-00005) on April 8, 2008 for a stationary grain handling, soybean meal production, and soybean oil extraction plant. Two letters requesting changes to this permit were received on November 17, 2010 and February 28, 2011. Pursuant to the provisions of 326 IAC 2-7-12 a significant permit modification to this permit is hereby approved as described in the attached Technical Support Document.

The modification consists of the following changes:

1. The addition of previously confidential throughput rates to emission unit descriptions;
2. Removal of CAM requirements from emission units that are not subject to CAM;
3. Include parametric monitoring for the control device, 1EX; and,
4. Addition of a new control device, 33EX, to hot dehulling equipment, 5EX2.

All other conditions of the permit shall remain unchanged and in effect. Please find attached the entire Part 70 Operating Permit Renewal as modified.

This decision is subject to the Indiana Administrative Orders and Procedures Act - IC 4-21.5-3-5. If you have any questions on this matter, please contact Denny Vendt, OAQ, 100 North Senate Avenue, MC 61-53 IGCN 1003, Indianapolis, Indiana 46204-2251, or call at (800) 451-6027, and ask for Denny Vendt or extension 4-5300, or dial (317) 234-5300.

Sincerely,

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

Attachments
DFR/dmv

cc: File – Adams County
U.S. EPA, Region V
Adams County Health Department
Compliance and Enforcement Branch



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Part 70 Operating Permit OFFICE OF AIR QUALITY

Bunge North America (East), LLC
1200 N. 2nd Street
Decatur, Indiana 46733

(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.: T001-23640-00005	
Issued by/Original Signed by: Alfred Dumauval, Ph.D., Section Chief Permits Branch Office of Air Quality	Issuance Date: April 8, 2008 Expiration Date: April 8, 2013
Administrative Amendment No. 001-26472-00005, issued May 7, 2008 Administrative Amendment No. 001-27445-00005, issued February 27, 2009 Administrative Amendment No. 001-27635-00005, issued April 28, 2009 Significant Permit Modification No. 001-27816-00005, issued November 24, 2009 Significant Permit Modification No. 001-29164-00005, issued August 4, 2010 Significant Permit Modification No. 001-29371-00005, issued September 1, 2010	
Significant Permit Modification No.: 001-29887-00005	
Issued by:  Donald F. Robin, P.E., Section Chief Permits Branch Office of Air Quality	Issuance Date: July 29, 2011 Expiration Date: April 8, 2013

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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 stationary grain handling, soybean meal production, and soybean oil extraction plant.

Source Address:	1200 N. 2nd Street, Decatur, Indiana 46733
General Source Phone Number:	(260)724-2101
SIC Code:	2075
County Location:	Adams
Source Location Status:	Attainment for all criteria pollutants
Source Status:	Part 70 Operating 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) Truck Dump #2, identified as 1EL1, constructed in 1980, with a maximum capacity of 600 tons per hour, using a baghouse for particulate matter (PM) control, and exhausting to stack 1EL. This is an affected facility under the New Source Performance Standard for Grain Elevators 40 CFR 60.300, Subpart DD.
- (b) The following grain elevator East Workhouse components, together identified as 2EL1, with a maximum throughput of 270 tons per hour, each, using a baghouse and oil suppressant for PM control, and exhausting to stack 2EL, consisting of:
 - (1) One (1) dryer megatex enclosed conveyor, constructed in 1979;
 - (2) One (1) dryer rotex, constructed prior to 1977;
 - (3) One (1) #1 scalperator, constructed prior to 1977;
 - (4) One (1) #2 scalperator, constructed prior to 1977;
 - (5) One (1) #3 scalperator, constructed prior to 1977;
 - (6) One (1) ext. screening bin, constructed prior to 1977;
 - (7) One (1) screening bin, constructed prior to 1977;
 - (8) One (1) solvent screening leg, constructed prior to 1977;
 - (9) One (1) #1 leg, constructed prior to 1977;
 - (10) One (1) #2 leg, constructed prior to 1977;

- (11) One (1) #3 leg, constructed prior to 1977;
 - (12) One (1) west to east Hi-Roller, constructed prior to 1977;
 - (13) One (1) west to east belt loader, constructed prior to 1977;
 - (14) One (1) dry bean leg, constructed prior to 1977;
 - (15) One (1) #1 dryer Hi-Roller, constructed prior to 1977;
 - (16) One (1) weaver's belt, constructed prior to 1977; and
 - (17) One (1) 102 belt, constructed prior to 1977.
- (c) One (1) hammermill, permitted in 2010 for construction, identified as 2EL2, with a maximum capacity of 5.60 tons per hour, using a baghouse as control (Unit ID 2EL2), and exhausting to stack 2EL2.
- (d) One (1) pneumatic conveying system, permitted in 2010 for construction, identified as 2EL3, with a maximum capacity of 5.60 tons per hour, using a baghouse for control (Unit ID 22EX2) as control, and exhausting to stack 22EX2.
- (e) The following grain elevator components, together identified as 5EL1, with a maximum throughput of 900 tons per hour, each, using a baghouse and oil suppressant for PM control, and exhausting to stack 5EL, consisting of:
- (1) One (1) north tripper buggy, constructed prior to 1977;
 - (2) One (1) north galley belt loader, constructed prior to 1977;
 - (3) One (1) east west belt, constructed prior to 1977; and
 - (4) One (1) bin 102, constructed prior to 1977.
- (f) One (1) north west receiving house enclosed conveyor identified as 8EL1, constructed prior to 1977, with a maximum throughput of 360 tons per hour, using oil suppressant for PM control, with no aspiration.
- (g) The following grain elevator components together identified as 10EL1, with a maximum throughput of 720 tons per hour, each, using a baghouse and oil suppressant for PM control, and exhausting to stack 10EL, consisting of:
- (1) One (1) rail loadout, constructed in 1984. This is an affected facility under the New Source Performance Standard for Grain Elevators 40 CFR 60.300, Subpart DD;
 - (2) One (1) rail receiving, constructed in 1960;
 - (3) One (1) north leg, constructed prior to 1960; and
 - (4) One (1) south leg, constructed prior to 1960.
- (h) The following grain elevator components together identified as 14EL1, with a maximum throughput of 600 tons per hour, each, using a baghouse and oil suppressant for PM control, and exhausting to stack 14EL, consisting of:

- (1) One (1) jumbo silo east galley belt, constructed prior to 1977;
 - (2) One (1) jumbo silo west galley belt, constructed prior to 1977;
 - (3) One (1) jumbo silo crossover galley belt, constructed prior to 1977;
- (i) One (1) natural gas fired grain dryer #2, identified as 19EL1, constructed in 1995, with a maximum capacity of 60 tons per hour and a maximum heat input capacity of 7 MMBtu/hr, using self-cleaning screens for PM control, and exhausting to vent 19EL. This is an affected facility under the New Source Performance Standard for Grain Elevators 40 CFR 60.300, Subpart DD.
 - (j) One (1) truck dump #7, identified as 20EL1, constructed in 1997, with a maximum throughput of 450 tons per hour, consisting of one (1) weigh scale truck unloading pit, and two (2) enclosed bucket elevator legs, using two (2) baghouses in parallel for PM control, and exhausting to stack 20EL. This is an affected facility under the New Source Performance Standard for Grain Elevators 40 CFR 60.300, Subpart DD.
 - (k) Silo bin vents, identified as 3EL1, constructed prior to 1977, with a maximum throughput of 900 tons per hour, total, using soybean oil as a dust suppressant, and exhausting to vent 3EL.
 - (l) Silo direct loadout, identified as 4EL1, constructed prior to 1977, with a maximum throughput of 270 tons per hour, using soybean oil as a dust suppressant.
 - (m) One (1) south tripper buggy, one (1) south galley belt loader, and one (1) north south belt, identified as 6EL1, all constructed prior to 1977, with a maximum throughput of 900 tons per hour, each, using a baghouse and oil suppressant for PM control, and exhausting to stack 6EL.
 - (n) One (1) south west receiving house enclosed conveyor, identified as 7EL1, constructed prior to 1977, with a maximum throughput of 360 tons per hour, using oil suppressant for PM control with no aspiration.
 - (o) One (1) truck dump #3, identified as 9EL1, constructed in 1976, with a maximum throughput of 900 tons per hour, using a baghouse for PM control, and exhausting to stack 9EL.
 - (p) One (1) truck dump #5, identified as 12EL1, constructed prior to 1977, with a maximum throughput of 600 tons per hour, using a baghouse for PM control, and exhausting to stack 12EL.
 - (q) One (1) jumbo silo east tunnel belt, one (1) jumbo silo west tunnel belt, and one (1) jumbo silo crossover tunnel belt, identified as 13EL1, all constructed prior to 1977, with a maximum throughput of 360 tons per hour, each, using a baghouse and oil suppressant for PM control, and exhausting to stack 13EL.
 - (r) One (1) truck dump #6, identified as 15EL1, constructed prior to 1977, with a maximum throughput of 360 tons per hour, using a baghouse for PM control, and exhausting to stack 15EL.

- (s) One (1) natural gas fired grain dryer #1, identified as 16EL1, constructed in 1986, with a maximum capacity of 75 tons per hour and a maximum heat input capacity of 7 MMBtu/hr, using self-cleaning screens for PM control, and exhausting to stack 16EL. This is an affected facility under the New Source Performance Standard for Grain Elevators 40 CFR 60.300, Subpart DD.
- (t) Two (2) natural gas fired grain dryers, #4 and #5, identified as 17EL1, constructed in the 1960's, with a maximum capacity of 150 tons per hour and a maximum heat input capacity of 14 MMBtu/hr, total, using self-cleaning screens for PM control, and exhausting to vent 17EL.
- (u) One (1) Lec. Dept. filter aid unit, identified as 204RO1, constructed in 1980, with a maximum throughput of 2.5 tons per hour, using a baghouse for PM control, and exhausting to stack 204RO.
- (v) Daily use bins, identified as 102EO1, constructed in 1976, with a maximum throughput of 2.5 tons per hour, each, using a baghouse for PM control, and exhausting to stack 102EO.
- (w) Filter aid silos, identified as 103EO1, constructed in 1976, with a maximum throughput of 16 tons per hour, each, using a baghouse for PM control, and exhausting to stack 103EO.
- (x) One (1) natural gas fired hydrogen generator furnace, identified as 107EO1, constructed in 1992, with a maximum heat input capacity of 25.2 MMBtu/hr, and exhausting to stack 107EO.
- (y) Salt conveying, identified as 4SP1, constructed in 1981, with a maximum throughput of 21 tons per hour, using a baghouse for PM control, and exhausting to stack 4SP.
- (z) Six (6) flaking rolls, #1, #2, #3, #4, #5, and #6, constructed in 1996, and B flake n/s drag, constructed in 1991, all identified together as 1EX1, with a maximum throughput of 93.1 tons per hour, total, using fabric filters for PM control, and exhausting to stack 1EX.
- (aa) One (1) flaking roll #14 and flaking roll discharge #14, identified as 1EX2, constructed in 1991, with a maximum throughput of 93.1 tons per hour, each, using fabric filters for PM control, and exhausting to stack 1EX.
- (bb) The following soybean processing equipment, together identified as 3EX1, with a maximum throughput of 48.8 tons per hour, each, sharing a cyclone with 3EX2 for PM control, and exhausting to stack 3EX, consisting of:
 - (1) Four (4) flaking rolls, #9, #10, #11, and #12, constructed in 1978;
 - (2) One (1) flaking roll #13, constructed in 1985;
 - (3) One (1) 'A' flake n/s drag, constructed in 1993; and
 - (4) One (1) 'A' flake e/w drag, constructed in 1993.
- (cc) One (1) north run around drag, identified as 3EX2, constructed in 1984, with a maximum throughput of 48.8 tons per hour, sharing a cyclone with 3EX1, and exhausting to stack 3EX.

- (dd) The following soybean processing equipment, together identified as 4EX1, with a maximum throughput of 156.3 tons per hour, each, sharing a baghouse with 4EX2 and 4EX3 for PM control, and exhausting to stack 4EX, consisting of:
 - (1) One (1) whole bean scale, constructed in 1989;
 - (2) One (1) 'A' whole bean leg, constructed in 1997;
 - (3) One (1) 'A' surge bin, constructed prior to 1979;
 - (4) One (1) whole bean drag, constructed in 1981; and
 - (5) One (1) 'B' surge bin, constructed prior to 1979.
- (ee) A run around rework screw, identified as 4EX2, constructed in 1991, with a maximum throughput of 156.3 tons per hour, sharing a baghouse with 4EX1 and 4EX3 for PM control, and exhausting to stack 4EX.
- (ff) The following soybean processing equipment, together identified as 4EX3, with a maximum throughput of 156.3 tons per hour, each, sharing a baghouse with 4EX1 and 4EX2 for PM control, and exhausting to stack 4EX, consisting of:
 - (1) One (1) hull refining screw conveyor, constructed in 1991;
 - (2) One (1) hull refining process, constructed in 1991; and
 - (3) One (1) hull grinding process, constructed in 1987.
- (gg) Dehulling equipment, identified as 5EX1, constructed in 1997, with a maximum throughput of 156.3 tons per hour, sharing a baghouse with 5EX3 for PM control, and exhausting to stack 5EX.
- (hh) Hot dehulling equipment, identified as 5EX2, constructed in 1991, with a maximum throughput of 156.3 tons per hour, using a baghouse for PM control, and exhausting to stack 33EX.
- (ii) Screening aspiration, identified as 5EX3, constructed in 1988, with a maximum throughput of 156.3 tons per hour, sharing a baghouse with 5EX1 for PM control, and exhausting to stack 5EX.
- (jj) Truck meal loadout and rail meal loadout, identified as 6EX1, constructed in 1982, replaced in 1999, with a maximum throughput of 150 tons per hour, with truck meal loadout using a baghouse for PM control, and exhausting to stack 6EX, and rail meal loadout using a choke loader for intrinsic PM control of fugitive emissions.
- (kk) One (1) soybean meal sizing and grinding operation, collectively identified as 7EX, approved in 2010 for construction, using a baghouse for PM control, and exhausting to stack 7EX, consisting of:
 - (1) One (1) meal screener, identified as 7EX1, with a maximum capacity of 176 tons per hour;
 - (2) Four (4) meal grinders, identified as 7EX2 through 7EX5, each with a maximum capacity of 45 tons per hour; and
 - (3) Associated conveyors.

- (ll) One (1) leg No. 2, one (1) mixing conveyor, and one (1) bin drag, together identified as 9EX1, all constructed in 1983, with a maximum throughput of 125 tons per hour, each, using a baghouse for PM control, and exhausting to stack 9EX.
- (mm) The following soybean processing equipment, together identified as 10EX1, with a maximum throughput of 333 tons per hour, each, using a baghouse for PM control, and exhausting to stack 10EX, consisting of:
 - (1) One (1) leg No. 3, constructed in the 1950's;
 - (2) One (1) tunnel drag, constructed in 1983; and
 - (3) One (1) meal loadout drag, constructed in 1982.
- (nn) One (1) kaolin bin, identified as 11EX1, constructed in the 1950's, with a maximum throughput of 15 tons per hour, using a baghouse for PM control, and exhausting to stack 11EX.
- (oo) One (1) meal loadout bin, identified as 12EX1, constructed in 1982, with a maximum throughput of 540 tons per hour, using a baghouse for PM control, and exhausting to stack 12EX.
- (pp) One (1) belt to storage bowls, one (1) large storage bowl, and one (1) small storage bowl, identified as 16EX1, 16EX2, and 16EX3, respectively, all constructed in 1982, with a maximum capacity of 93 tons per hour, each, with no PM control, and exhausting to stack 16EX.
- (qq) Whole bean bins, identified as 18EX1, constructed in the 1940's, with a maximum throughput of 156.3 tons per hour, total, with no PM control, and exhausting to stack 18EX.
- (rr) Meal storage silos with bin vents, identified as 23EX1, constructed in the 1950's, with a maximum throughput of 125 tons per hour, total, using one (1) bin vent filter as control, exhausting to stack 23EX.
- (ss) One (1) natural gas fired steam generator, identified as 110EO1, constructed in 2002, with a maximum heat input capacity of 14 MMBtu/hr, and exhausting to stack 110EO. This is an affected facility under the New Source Performance Standards for Small Industrial - Commercial - Institutional Steam Generating Units 40 CFR 60, Subpart Dc.
- (tt) One (1) natural gas fired steam generator #3, identified as 108EO1, constructed in 1994, with a maximum heat input capacity of 14 MMBtu/hr, and exhausting to stack 108EO. This is an affected facility under the New Source Performance Standards for Small Industrial - Commercial - Institutional Steam Generating Units 40 CFR 60, Subpart Dc.
- (uu) One (1) B & W coal fired boiler, identified as 1SP1, constructed in 1950, with a maximum heat input capacity of 108 MMBtu/hr, using multiple cyclones and a baghouse for control of particulate and HAPs, and exhausting to stack 1SP.
- (vv) One (1) Keeler coal fired boiler, identified as 2SP1, constructed in 1963, with a maximum heat input capacity of 52.75 MMBtu/hr, using multiple cyclones and a baghouse for control of particulate and HAPs, and exhausting to stack 1SP.

- (ww) One (1) Murray natural gas fired, vegetable oil-fired, used oil-fired, and hazardous chemical fired boiler, identified as 3SP1, constructed in 1968, with a maximum heat input capacity of 110.2 MMBtu/hr, and exhausting to stack 1SP.
- (xx) One (1) hexane extraction system, identified collectively as 24EX, modified prior to 1980, with hexane emissions from the vent system controlled by a mineral oil absorber, and exhausting to stack 24EXA. For reporting purposes, all hexane emissions are collectively accounted for in the total hexane losses named 24EX.
- (1) One (1) 'A' unit, identified as 24EX1, consisting of 'A' pre-DT, constructed in 1996, 'A' DT, constructed in 1980, and the 'A' Meal Dryer, constructed in 1980, with a maximum capacity of 109.4 tons per hour, each. 'A' pre-DT is on top of and feeds the 'A' DT, which is on top of and feeds the 'A' Meal Dryer. The 'A' pre-DT and the 'A' DT exhaust to the hexane solvent reclaim system. The 'A' Meal Dryer uses a cyclone for PM control, and exhausts to stack 24EX1. Hexane emissions are reported in 24EX.
 - (2) One (1) 'B' unit, identified as 24EX2, consisting of 'B' pre-DT, constructed in 1996, 'B' DT, constructed in 1980, and the 'B' Meal Dryer, constructed in 1980, with a maximum capacity of 109.4 tons per hour, each. 'B' pre-DT is on top of and feeds the 'B' DT which is on top of and feeds the 'B' Meal Dryer. The 'B' pre-DT and the 'B' DT exhaust to the hexane solvent reclaim system. The 'B' Meal Dryer uses a cyclone for PM control, and exhausts to stack 24EX2. Hexane emissions are reported in 24EX.
 - (3) One meal cooler, identified as 24EX3, constructed in 1996, with a maximum capacity of 110 tons per hour, using two (2) cyclones for PM control, exhausting to stacks 24EX3A and 24EX3B, respectively, with hexane emissions reported in 24EX.
 - (4) Two (2) hexane storage tanks, identified as 24EX4A and 24EX4B, constructed in 1995 and 2005, respectively, with emissions vented to the mineral oil absorber inlet, with hexane emissions reported in 24EX.
 - (5) One (1) wastewater system, identified as 24EX5, constructed prior to 1980, containing traces of hexane, exhausting to the extraction hot water separation pit, with hexane emissions reported in 24EX.
 - (6) One (1) refined oil hot well, identified as 24EX6, constructed in 1975, with hexane emissions reported in 24EX.
 - (7) One (1) sampling /hexane unloading port, identified as 24EX7, with hexane emissions reported in 24EX.
 - (8) Oil tanks containing non-deodorized oil, identified as 24EX8, venting to the atmosphere, with hexane emissions reported at 24EX.

The hexane extraction system (24EX, consisting of 24EX1 through 24EX8) are affected facilities under the National Emission Standards for Hazardous Air Pollutants: Solvent Extraction for Vegetable Oil Production 40 CFR 63, Subpart GGGG.

- (yy) The following soybean processing equipment, identified as 17EX2, modified in 1987, with a maximum throughput of 156.3 tons per hour, each, using a cyclone for PM control, and exhausting to stack 17EX, consisting of:

- (1) One (1) flaking roll #8, constructed in 1981; and
- (2) One (1) 'B' flake e/w drag, constructed in 1980.
- (zz) Two (2) conditioners identified as 31EX1 and 31EX2 constructed in 2002, with a maximum capacity of 156.3 tons per hour for each conditioner, and exhausting internally.
- (aaa) One (1) enclosed pneumatic ash conveying and loading operation, constructed in the 1950's, identified as emission unit 8SP1, with a maximum throughput of 13.8 tons per hour, using a baghouse for emission control, and exhausting to stack 1SP. The ash loading operation uses water spray for fugitive emission mitigation.
- (bbb) One (1) batch enzyme bag unloader, with a maximum throughput rate of 51 tons per year, identified as 112EO1, approved in 2009 for construction, using a baghouse for emission control and exhausting to stack 112EO.

This emission unit is not an affected facility under the National Emission Standards for Hazardous Air Pollutants: Solvent Extraction for Vegetable Oil Production 40 CFR 63, Subpart GGGG.
- (ccc) One (1) pelletizer/pellet cooler to produce pellets from the existing dehulling/grinding (millfeed) system, approved in 2009 for construction, with a maximum rate of 10 tons per hour, identified as 32EX1, using a high efficiency cyclone for emission control and exhausting to stack 32EX.
- (ddd) One (1) totally enclosed conveyor, approved in 2009 for construction, with a maximum rate of 10 tons per hour, identified as 32EX2.
- (eee) One (1) loadout bin, identified as 29EX1, constructed in 1994, with a maximum throughput of 10 tons per hour, using a bin vent filter for PM control, and exhausting to stack 29EX.

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):

Paved and unpaved roads and parking lots with public access [326 IAC 6-4].

A.4 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:

- (a) Natural gas-fired combustion sources with heat input equal to or less than ten million (10,000,000) British thermal units per hour.
- (b) Propane or liquified petroleum gas, or butane-fired combustion sources with heat input equal to or less than six million (6,000,000) British thermal units per hour.
- (c) Combustion source flame safety purging on start-up.
- (d) A gasoline fuel transfer and dispensing operation handling less than or equal to 1,300 gallons per day, such as filling of tanks, locomotives, automobiles, having a storage capacity less than or equal to 10,500 gallons.

- (e) A petroleum fuel, other than gasoline, dispensing facility having a storage capacity less than or equal to 10,500 gallons, and dispensing less than or equal to 23,000 gallons per month.
- (f) Vessels storing lubricating oils, hydraulic oils, machining oils, and machining fluids.
- (g) Machining where an aqueous cutting coolant continuously floods the machining interface.
- (h) Degreasing operations that do not exceed 145 gallons per 12 months, and not subject to 326 IAC 20-6.
- (i) Cleaners and solvents characterized as follows:
 - (1) having a vapor pressure equal to or less than 2 kPa; 15 mmHg; or 0.3 psi measured at 38 degrees C (100°F); or
 - (2) having a vapor pressure equal to or less than 0.7 kPa; 5 mmHg; or 0.1 psi measured at 20 degrees C (68°F);the use of which for all cleaners and solvents combined does not exceed 145 gallons per 12 months.
- (j) Closed loop heating and cooling systems.
- (k) Activities associated with the treatment of wastewater streams with an oil and grease content less than or equal to 1% by volume.
- (l) Water based adhesives that are less than or equal to 5% by volume of VOCs, excluding HAPs.
- (m) Noncontact cooling tower systems with natural draft cooling towers not regulated under a NESHAP.
- (n) Replacement or repair of electrostatic precipitators, bags in baghouses, and filters in other filtrations equipment.
- (o) Heat exchanger cleaning and repair.
- (p) Process vessel degreasing and cleaning to prepare for internal repairs.
- (q) Underground conveyors.
- (r) Coal bunker and coal scale exhausts and associated dust collector vents.
- (s) Asbestos abatement projects regulated by 326 IAC 14-10.
- (t) Purging of gas lines and vessels that is related to routine maintenance and repair of buildings, structures, or vehicles at the source where air emissions from those activities would not be associated with any production process.
- (u) Equipment used to collect any material that might be released during a malfunction, process upset, or spill cleanup, including catch tanks, temporary liquid separators, tanks, and fluid handling equipment.
- (v) Blowdown for any of the following: sight glass, boiler, compressors, pumps, and cooling tower.

- (w) Stationary fire pumps.
- (x) Purge double block and bleed valves.
- (y) Filter or coalescer media changeout.
- (z) Vents from ash transport systems not operated at positive pressure.
- (aa) A laboratory as defined in 326 IAC 2-7-1(21)(D).
- (bb) Emission units with PM and PM10 emissions less than five (5) tons per year, SO₂, NO_x, and VOC emissions less than ten (10) tons per year, CO emissions less than twenty-five (25) tons per year, lead emissions less than two-tenths (0.2) tons per year, single HAP emissions less than one (1) ton per year, and combination of HAPs emissions less than two and a half (2.5) tons per year, consisting of:
 - (1) One (1) acetic anhydride storage tank.
 - (2) One (1) Hoffman vacuum system, for housekeeping.
 - (3) One (1) elevator/railcar pest control/fumigation.
 - (4) One (1) Millfeed storage bin, 22EX.
 - (5) One (1) Flake drag air brake fan, 15EX.
 - (6) One (1) Coal receiving operation, 6SP.

A.5 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][326 IAC 2-7-4(a)(1)(D)][IC 13-15-3-6(a)]

(a) This permit, T001-23640-00005, is issued for a fixed term of five (5) years from the issuance date of this permit, as determined in accordance with IC 4-21.5-3-5(f) and IC 13-15-5-3. Subsequent revisions, modifications, or amendments of this permit do not affect the expiration date of this permit.

(b) If IDEM, OAQ, upon receiving a timely and complete renewal permit application, fails to issue or deny the permit renewal prior to the expiration date of this permit, this existing permit shall not expire and all terms and conditions shall continue in effect, including any permit shield provided in 326 IAC 2-7-15, until the renewal permit has been issued or denied.

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

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

(a) the condition is modified in a subsequent permit action pursuant to Title I of the Clean Air Act; or

(b) the emission unit to which the condition pertains permanently ceases operation.

B.4 Enforceability [326 IAC 2-7-7] [IC 13-17-12]

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

B.5 Severability [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. 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) A certification required by this permit meets the requirements of 326 IAC 2-7-6(1) if:
- (i) it contains a certification by a "responsible official" as defined by 326 IAC 2-7-1(34), and
 - (ii) the certification states that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.
- (b) The Permittee may use the attached Certification Form, or its equivalent 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. All certifications shall cover the time period from January 1 to December 31 of the previous year, and shall be submitted no later than July 1 of each year to:

Indiana Department of Environmental Management
Compliance and Enforcement Branch, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 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 a certification that meets the requirements of 326 IAC 2-7-6(1) by a "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) A Preventive Maintenance Plan meets the requirements of 326 IAC 1-6-3 if it includes, at a minimum:
- (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.

The Permittee shall implement the PMPs.

- (b) If required by specific condition(s) in Section D of this permit where no PMP was previously required, the Permittee shall prepare and maintain Preventive Maintenance Plans (PMPs) no later than ninety (90) days after issuance of this permit or ninety (90) days after initial start-up, whichever is later, 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 and Enforcement Branch, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

The PMP extension notification does not require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34).

The Permittee shall implement the PMPs.

- (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. The PMPs and their submittal do not require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34).
- (d) 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 and Enforcement Branch), or
Telephone Number: 317-233-0178 (ask for Office of Air Quality,
Compliance and Enforcement Branch)
Facsimile Number: 317-233-6865

- (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 and Enforcement Branch, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 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 a certification that meets the requirements of 326 IAC 2-7-6(1) by a "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.

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 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][326 IAC 2-7-10.5]

- (a) All terms and conditions of permits established prior to T001-23640-00005 and issued pursuant to permitting programs approved into the state implementation plan have been either:
 - (1) incorporated as originally stated,
 - (2) revised under 326 IAC 2-7-10.5, or
 - (3) deleted under 326 IAC 2-7-10.5.
- (b) Provided that all terms and conditions are accurately reflected in this combined permit, all previous registrations and permits are superseded by this combined new source review and part 70 operating permit.

B.14 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.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 Operating 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 a certification that meets the requirements of 326 IAC 2-7-6(1) by a "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][326 IAC 2-7-8(e)]

- (a) The application for renewal shall be submitted using the application form or forms prescribed by IDEM, OAQ and shall include the information specified in 326 IAC 2-7-4. Such information shall be included in the application for each emission unit at this source, except those emission units included on the trivial or insignificant activities list contained in 326 IAC 2-7-1(21) and 326 IAC 2-7-1(40). The renewal application does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34).

Request for renewal shall be submitted to:

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

- (b) A timely renewal application is one that is:
- (1) Submitted at least nine (9) months prior to the date of the expiration of this permit; and

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

(c) If the Permittee submits a timely and complete application for renewal of this permit, the source's failure to have a permit is not a violation of 326 IAC 2-7 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, pursuant to 326 IAC 2-7-4(a)(2)(D), in writing by IDEM, OAQ any additional information identified as being needed to process the application.

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
Permit Administration and Support Section, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

Any such application does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "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.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 or notice 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
Permit Administration and Support Section, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 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 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 a certification that meets the requirements of 326 IAC 2-7-6(1) by a "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 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.

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
Permit Administration and Support Section, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

Any such application does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "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 Advanced Source Modification Approval [326 IAC 2-7-5(16)] [326 IAC 2-7-10.5]

- (a) The requirements to obtain a source modification approval under 326 IAC 2-7-10.5 or a permit modification under 326 IAC 2-7-12 are satisfied by this permit for the proposed emission units, control equipment or insignificant activities in Sections A.2 and A.3.
- (b) Pursuant to 326 IAC 2-1.1-9 any permit authorizing construction may be revoked if construction of the emission unit has not commenced within eighteen (18) months from the date of issuance of the permit, or if during the construction, work is suspended for a continuous period of one (1) year or more.

B.25 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 5-1-1 (Applicability) and 326 IAC 5-1-3 (Temporary Alternative Opacity Limitations), opacity shall meet the following, unless otherwise stated in this permit:

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

C.3 Open Burning [326 IAC 4-1] [IC 13-17-9]

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

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

The Permittee shall not operate an incinerator except as provided in 326 IAC 4-2 or in this permit. The Permittee shall not operate a refuse incinerator or refuse burning equipment except as provided in 326 IAC 9-1-2 or in this permit.

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 by using ambient air quality modeling pursuant to 326 IAC 1-7-4. 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
Compliance and Enforcement Branch, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

The notice shall include a signed certification from the owner or operator that the information provided in this notification is correct and that only Indiana licensed workers and project supervisors will be used to implement the asbestos removal project. The notifications do not require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "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 Licensed 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 Licensed Asbestos Inspector to thoroughly inspect the affected portion of the facility for the presence of asbestos. The requirement to use an Indiana Licensed Asbestos inspector is not federally enforceable.

Testing Requirements [326 IAC 2-7-6(1)]

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

- (a) For performance testing required by this permit, a test protocol, except as provided elsewhere in this permit, shall be submitted to:

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

no later than thirty-five (35) days prior to the intended test date. The protocol submitted by the Permittee does not require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "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 a certification that meets the requirements of 326 IAC 2-7-6(1) by a "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, for all monitoring requirements not already legally required, the Permittee shall be allowed up to ninety (90) days from the date of permit issuance or of initial start-up, whichever is later, to begin such monitoring. If due to circumstances beyond the Permittee's control, any monitoring equipment required by this permit cannot be installed and operated no later than ninety (90) days after permit issuance or the date of initial startup, whichever is later, 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 and Enforcement Branch, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 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 a certification that meets the requirements of 326 IAC 2-7-6(1) by a "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 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.12 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 maintain the most recently submitted written emergency reduction plans (ERPs) consistent with safe operating procedures.
- (b) 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.13 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.14 Response to Excursions or Exceedances [326 IAC 2-7-5] [326 IAC 2-7-6]

Upon detecting an excursion where a response step is required by the D Section or an exceedance of a limitation in this permit:

- (a) The Permittee shall take reasonable response steps to 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 excess emissions.
- (b) The response shall include minimizing the period of any startup, shutdown or malfunction. The response may include, but is not limited to, the following:

- (1) initial inspection and evaluation;
 - (2) recording that operations returned or are returning 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 normal or usual manner of operation.
- (c) A determination of whether the Permittee has used acceptable procedures in response to an excursion or exceedance will be based on information available, which may include, but is not limited to, the following:
- (1) monitoring results;
 - (2) review of operation and maintenance procedures and records; and/or
 - (3) inspection of the control device, associated capture system, and the process.
- (d) Failure to take reasonable response steps shall be considered a deviation from the permit.
- (e) The Permittee shall record the reasonable response steps taken.

C.15 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 submit a description of its response actions to IDEM, OAQ, no later than seventy-five (75) days after the date of the test.
- (b) A retest to demonstrate compliance shall be performed no later than one hundred eighty (180) days after the date of the test. Should the Permittee demonstrate to IDEM, OAQ that retesting in one hundred eighty (180) 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 a certification that meets the requirements of 326 IAC 2-7-6(1) by a "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.16 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]

Pursuant to 326 IAC 2-6-3(a)(1), the Permittee shall submit by July 1 of each year an emission statement covering the previous calendar year. The emission statement shall contain, at a minimum, the information specified in 326 IAC 2-6-4(c) and shall meet the following requirements:

- (1) Indicate estimated actual emissions of all pollutants listed in 326 IAC 2-6-4(a);
- (2) Indicate estimated actual emissions of regulated pollutants as defined by 326 IAC 2-7-1(32) ("Regulated pollutant, which is used only for purposes of Section 19 of this rule") from the source, for purpose of fee assessment.

The statement must be submitted to:

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

The emission statement does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34).

C.17 General Record Keeping Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-6]
[326 IAC 2-2][326 IAC 2-3]

- (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, for all record keeping requirements not already legally required, the Permittee shall be allowed up to ninety (90) days from the date of permit issuance or the date of initial start-up, whichever is later, to begin such record keeping.
- (c) If there is a reasonable possibility (as defined in 40 CFR 51.165(a)(6)(vi)(A), 40 CFR 51.165(a)(6)(vi)(B), 40 CFR 51.166(r)(6)(vi)(a), and/or 40 CFR 51.166(r)(6)(vi)(b)) that a "project" (as defined in 326 IAC 2-2-1(qq) and/or 326 IAC 2-3-1(II)) at an existing emissions unit, other than projects at a source with a Plantwide Applicability Limitation (PAL), which is not part of a "major modification" (as defined in 326 IAC 2-2-1(ee) and/or 326 IAC 2-3-1(z)) may result in significant emissions increase and the Permittee elects to utilize the "projected actual emissions" (as defined in 326 IAC 2-2-1(rr) and/or 326 IAC 2-3-1(mm)), the Permittee shall comply with following:
 - (1) Before beginning actual construction of the "project" (as defined in 326 IAC 2-2-1(qq) and/or 326 IAC 2-3-1(II)) at an existing emissions unit, document and maintain the following records:
 - (A) A description of the project.
 - (B) Identification of any emissions unit whose emissions of a regulated new source review pollutant could be affected by the project.
 - (C) A description of the applicability test used to determine that the project is not a major modification for any regulated NSR pollutant, including:
 - (i) Baseline actual emissions;
 - (ii) Projected actual emissions;
 - (iii) Amount of emissions excluded under section 326 IAC 2-2-1(rr)(2)(A)(iii) and/or 326 IAC 2-3-1 (mm)(2)(A)(iii); and

- (iv) An explanation for why the amount was excluded, and any netting calculations, if applicable.
- (d) If there is a reasonable possibility (as defined in 40 CFR 51.165(a)(6)(vi)(A) and/or 40 CFR 51.166(r)(6)(vi)(a)) that a "project" (as defined in 326 IAC 2-2-1(qq) and/or 326 IAC 2-3-1(ll)) at an existing emissions unit, other than projects at a source with a Plantwide Applicability Limitation (PAL), which is not part of a "major modification" (as defined in 326 IAC 2-2-1(ee) and/or 326 IAC 2-3-1(z)) may result in significant emissions increase and the Permittee elects to utilize the "projected actual emissions" (as defined in 326 IAC 2-2-1(rr) and/or 326 IAC 2-3-1(mm)), the Permittee shall comply with following:
 - (1) Monitor the emissions of any regulated NSR pollutant that could increase as a result of the project and that is emitted by any existing emissions unit identified in (1)(B) above; and
 - (2) Calculate and maintain a record of the annual emissions, in tons per year on a calendar year basis, for a period of five (5) years following resumption of regular operations after the change, or for a period of ten (10) years following resumption of regular operations after the change if the project increases the design capacity of or the potential to emit that regulated NSR pollutant at the emissions unit.

C.18 General Reporting Requirements [326 IAC 2-7-5(3)(C)] [326 IAC 2-1.1-11] [326 IAC 2-2]

- (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 except that 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. This report shall be submitted not later than thirty (30) days after the end of the reporting period. The Quarterly Deviation and Compliance Monitoring Report shall include a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34). A deviation is an exceedance of a permit limitation or a failure to comply with a requirement of the permit.
- (b) The address for report submittal is:

Indiana Department of Environmental Management
Compliance and Enforcement Branch, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 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) 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.
- (e) If the Permittee is required to comply with the recordkeeping provisions of (d) in Section C - General Record Keeping Requirements for any "project" (as defined in 326 IAC 2-2-1(qq) and/or 326 IAC 2-3-1 (ll)) at an existing emissions unit, and the project meets the following criteria, then the Permittee shall submit a report to IDEM, OAQ:

- (1) The annual emissions, in tons per year, from the project identified in (c)(1) in Section C- General Record Keeping Requirements exceed the baseline actual emissions, as documented and maintained under Section C- General Record Keeping Requirements (c)(1)(C)(i), by a significant amount, as defined in 326 IAC 2-2-1 (xx) and/or 326 IAC 2-3-1 (qq), for that regulated NSR pollutant, and
 - (2) The emissions differ from the preconstruction projection as documented and maintained under Section C - General Record Keeping Requirements (c)(1)(C)(ii).
- (f) The report for project at an existing emissions unit shall be submitted no later than sixty (60) days after the end of the year and contain the following:
- (1) The name, address, and telephone number of the major stationary source.
 - (2) The annual emissions calculated in accordance with (d)(1) and (2) in Section C - General Record Keeping Requirements.
 - (3) The emissions calculated under the actual-to-projected actual test stated in 326 IAC 2-2-2(d)(3) and/or 326 IAC 2-3-2(c)(3).
 - (4) Any other information that the Permittee wishes to include in this report such as an explanation as to why the emissions differ from the preconstruction projection.

Reports required in this part shall be submitted to:

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

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

Stratospheric Ozone Protection

C.19 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 applicable standards for recycling and emissions reduction.

SECTION D.1 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description: Grain Handling and Grain Drying Facilities

- (a) Truck Dump #2, identified as 1EL1, constructed in 1980, with a maximum capacity of 600 tons per hour, using a baghouse for particulate matter (PM) control, and exhausting to stack 1EL. This is an affected facility under the New Source Performance Standard for Grain Elevators 40 CFR 60.300, Subpart DD.
- (b) The following grain elevator East Workhouse components, together identified as 2EL1, with a maximum throughput of 270 tons per hour, each, using a baghouse and oil suppressant for PM control, and exhausting to stack 2EL, consisting of:
 - (1) One (1) dryer megatex enclosed conveyor, constructed in 1979;
 - (2) One (1) dryer rotex, constructed prior to 1977;
 - (3) One (1) #1 scalperator, constructed prior to 1977;
 - (4) One (1) #2 scalperator, constructed prior to 1977;
 - (5) One (1) #3 scalperator, constructed prior to 1977;
 - (6) One (1) ext. screening bin, constructed prior to 1977;
 - (7) One (1) screening bin, constructed prior to 1977;
 - (8) One (1) solvent screening leg, constructed prior to 1977;
 - (9) One (1) #1 leg, constructed prior to 1977;
 - (10) One (1) #2 leg, constructed prior to 1977;
 - (11) One (1) #3 leg, constructed prior to 1977;
 - (12) One (1) west to east Hi-Roller, constructed prior to 1977;
 - (13) One (1) west to east belt loader, constructed prior to 1977;
 - (14) One (1) dry bean leg, constructed prior to 1977;
 - (15) One (1) #1 dryer Hi-Roller, constructed prior to 1977;
 - (16) One (1) weaver's belt, constructed prior to 1977; and
 - (17) One (1) 102 belt, constructed prior to 1977.
- (c) One (1) hammermill, permitted in 2010 for construction, identified as 2EL2, with a maximum capacity of 5.60 tons per hour, using a baghouse as control (Unit ID 2EL2), and exhausting to stack 2EL2.
- (d) One (1) pneumatic conveying system, permitted in 2010 for construction, identified as 2EL3, with a maximum capacity of 5.60 tons per hour, using a baghouse for control (Unit ID 22EX2) as control, and exhausting to stack 22EX2.

- (e) The following grain elevator components, together identified as 5EL1, with a maximum throughput of 900 tons per hour, each, using a baghouse and oil suppressant for PM control, and exhausting to stack 5EL, consisting of:
- (1) One (1) north tripper buggy, constructed prior to 1977;
 - (2) One (1) north galley belt loader, constructed prior to 1977;
 - (3) One (1) east west belt, constructed prior to 1977; and
 - (4) One (1) bin 102, constructed prior to 1977.
- (f) One (1) north west receiving house enclosed conveyor identified as 8EL1, constructed prior to 1977, with a maximum throughput of 360 tons per hour, using oil suppressant for PM control, with no aspiration.
- (g) The following grain elevator components together identified as 10EL1, with a maximum throughput of 720 tons per hour, each, using a baghouse and oil suppressant for PM control, and exhausting to stack 10EL, consisting of:
- (1) One (1) rail loadout, constructed in 1984. This is an affected facility under the New Source Performance Standard for Grain Elevators 40 CFR 60.300, Subpart DD;
 - (2) One (1) rail receiving, constructed in 1960;
 - (3) One (1) north leg, constructed prior to 1960; and
 - (4) One (1) south leg, constructed prior to 1960.
- (h) The following grain elevator components together identified as 14EL1, with a maximum throughput of 600 tons per hour, each, using a baghouse and oil suppressant for PM control, and exhausting to stack 14EL, consisting of:
- (1) One (1) jumbo silo east galley belt, constructed prior to 1977;
 - (2) One (1) jumbo silo west galley belt, constructed prior to 1977; and
 - (3) One (1) jumbo silo crossover galley belt, constructed prior to 1977.
- (i) One (1) natural gas fired grain dryer #2, identified as 19EL1, constructed in 1995, with a maximum capacity 60 tons per hour and a maximum heat input capacity of 7 MMBtu/hr, using self-cleaning screens for PM control, and exhausting to vent 19EL. This is an affected facility under the New Source Performance Standard for Grain Elevators 40 CFR 60.300, Subpart DD.
- (j) One (1) truck dump #7, identified as 20EL1, constructed in 1997, with a maximum throughput of 450 tons per hour, consisting of one (1) weigh scale truck unloading pit, and two (2) enclosed bucket elevator legs, using two (2) baghouses in parallel for PM control, and exhausting to stack 20EL. This is an affected facility under the New Source Performance Standard for Grain Elevators 40 CFR 60.300, Subpart DD.

- (k) One (1) natural gas fired grain dryer #1, identified as 16EL1, constructed in 1986, with a maximum capacity of 75 tons per hour and a maximum heat input capacity of 7 MMBtu/hr, using self-cleaning screens for PM control, and exhausting to stack 16EL. This is an affected facility under the New Source Performance Standard for Grain Elevators 40 CFR 60.300, Subpart DD.

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

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

D.1.1 PSD Minor Limits [326 IAC 2-2]

- (a) Pursuant to CP 001-4673-00005, issued May 10, 1996, and AA 001-9930-00005, issued September 17, 1998:
- (1) The amount of soybean grains processed after the grain dryers shall be limited to less than 1,368,750 tons per twelve (12) consecutive month period, with compliance determined at the end of each month, and
 - (2) The PM emissions from emission unit 19EL1 shall be limited to less than 1.36 pounds per hour and the PM10 emissions from emission unit 19EL1 shall be limited to less than 0.283 pounds per hour.

These limits, in combination with the limits in Condition D.2.1, restrict the net increases of PM and PM10 emissions from the modification in 1996 to below the PSD significant levels of twenty-five (25) and fifteen (15) tons per year, respectively. This will render the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration) not applicable to the modification performed in 1996.

D.1.2 PSD Minor Limits [326 IAC 2-2]

In order to make the requirements of 326 IAC 2-2 not applicable, the Permittee shall comply with the following:

- (a) The PM/PM10 emissions from the hammermill plenum baghouse filter, Unit ID 2EL2, shall not exceed 0.17 lb/hr.
- (b) The PM/PM10 emissions from the screenings pneumatic conveyor baghouse filter, Unit ID 2EL3, shall not exceed 0.03 lb/hr.

Compliance with these limits shall limit the potential to emit from this modification to less than twenty-five (25) tons per of PM and less than fifteen (15) tons of PM10 per twelve (12) consecutive month period and render the requirements of 326 IAC 2-2 not applicable.

D.1.3 Particulate Matter (PM) [326 IAC 6-3-2]

Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), particulate emissions from each of following operations shall not exceed the pound per hour limit listed in the table below:

Unit	Process Weight Rate (ton/hr)	PM Limit (lb/hr)
1EL1	600	71.16
2EL1	270	61.82
2EL2	5.6	13.00
2EL3	5.6	13.00
5EL1	900	76.23
8EL1	360	65.09
10EL1	720	73.41
14EL1	600	71.16
16EL1	75	48.43
19EL1	60	46.29
20EL1	450	67.70

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

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

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

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

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

D.1.4 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

A Preventive Maintenance Plan is required for these facilities and their control devices. Section B - Preventative Maintenance Plan contains the Permittee's obligation with regard to the preventative maintenance plan required by this condition.

Compliance Determination Requirements

D.1.5 Testing Requirements [326 IAC 2-7-6(1),(6)] [326 IAC 2-1.1-11]

In order to demonstrate compliance with Condition D.1.2(a), the Permittee shall perform PM and PM-10 testing of the hammermill plenum baghouse filter, unit ID 2EL2, no later than 180 days of publication of the new or revised condensable PM test method(s) referenced in the U. S. EPA's Final Rule for Implementation of the New Source Review (NSR) Program for Particulate Matter Less Than 2.5 Micrometers (PM2.5), signed on May 8th, 2008. This testing shall be conducted 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. Testing shall be conducted in accordance with the provisions of 326 IAC 3-6 (Source Sampling Procedures). Section C - Performance Testing contains the Permittee's obligation with regard to the performance testing required by this condition. PM-10 includes filterable and condensable PM.

D.1.6 Particulate Matter (PM) [40 CFR 64 (CAM)]

- (a) In order to comply with Conditions D.1.1, D.1.2, and D.1.3 the baghouses for particulate control shall be in operation and control emissions from 1EL1, 2EL1, 2EL2, 2EL3, 5EL1, 10EL1, 14EL1, and 20EL1 at all times that these processes are in operation.

- (b) In order to comply with Conditions D.1.1 and D.1.3, the self-cleaning screens for PM control shall be in operation and control emissions from 19EL1 and 16 EL1 at all times that these processes are in operation.
- (c) In order to comply with Conditions D.1.1 and D.1.3, dust control oil shall be applied on all grain received at the dump pits serving the emission units identified as 2EL1, 5EL1, 8EL1, 10EL1, and 14EL1.
- (d) 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 2-7-5(1)][326 IAC 2-7-6(1)]

D.1.7 Visible Emissions Notations [40 CFR 64 (CAM)]

- (a) Daily visible emission notations of the grain handling and grain drying stack exhausts/vents (1EL, 2EL, 2EL2, 22EX2, 5EL, 10EL, 14EL, 19EL, 20EL, 16EL) shall be performed during normal daylight operations. A trained employee shall record whether emissions are normal or abnormal.
- (b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.
- (c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.
- (d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.
- (e) If abnormal emissions are observed, the Permittee shall take reasonable response steps. Section C - Response to Excursions or Exceedances contains the Permittee's obligation with regard to the reasonable response steps required by this condition.

D.1.8 Parametric Monitoring [40 CFR 64 (CAM)]

The Permittee shall record the pressure drop across the baghouses used in conjunction with 1EL1, 2EL1, 2EL2, 2EL3, 5EL1, 10EL1, 14EL1, and 20EL1 at least once per day when these facilities are in operation. When for any one reading, the pressure drop across the baghouse is outside the normal range of 0.5 and 10.0 inches of water or a range established during the latest stack test, the Permittee shall take reasonable response. Section C – Response to Excursions and Exceedances contains the Permittee's obligation with regard to the reasonable response steps required by this condition. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps 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 or replaced at least once every six (6) months.

D.1. 9 Broken or Failed Bag Detection [40 CFR 64 (CAM)]

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

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

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

D.1. 10 Record Keeping Requirements

- (a) To document the compliance status with Condition D.1.1, the Permittee shall maintain monthly records of the amount of soybean grains processed after the grain dryers.
- (b) To document the compliance status with Condition D.1.7, the Permittee shall maintain a daily record of visible emission notations of the grain handling processes' stack exhausts. The Permittee shall include in its daily record when a visible emission notation is not taken and the reason for the lack of visible emission notation (e.g. the process did not operate that day).
- (c) To document the compliance status with Condition D.1.8, the Permittee shall maintain a daily record of the pressure drop across the baghouses controlling the grain handling processes. The Permittee shall include in its daily record when a pressure drop reading is not taken and the reason for the lack of a pressure drop reading (e.g. the process did not operate that day).
- (d) Section C - General Record Keeping Requirements contains the Permittee's obligations with regard to the records required by this condition.

D.1. 11 Reporting Requirements

A quarterly summary of the information to document compliance status with Condition D.1.1(a)(1) 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, not later than thirty (30) days after the end of the quarter being reported. Section C - General Reporting contains the Permittee's obligation with regard to the reporting required by this condition. The report submitted by the Permittee does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34).

SECTION D.2 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description: Grain Handling and Soybean Meal Production Facilities

- (a) Silo bin vents, identified as 3EL1, constructed prior to 1977, with a maximum throughput of 900 tons per hour, total, using soybean oil as a dust suppressant, and exhausting to vent 3EL.
- (b) Silo direct loadout, identified as 4EL1, constructed prior to 1977, with a maximum throughput of 270 tons per hour, using soybean oil as a dust suppressant.
- (c) One (1) south tripper buggy, one (1) south galley belt loader, and one (1) north south belt, identified as 6EL1, all constructed prior to 1977, with a maximum throughput of 900 tons per hour, each, using a baghouse and oil suppressant for PM control, and exhausting to stack 6EL.
- (d) One (1) south west receiving house enclosed conveyor, identified as 7EL1, constructed prior to 1977, with a maximum throughput of 360 tons per hour, using oil suppressant for PM control with no aspiration.
- (e) One (1) truck dump #3, identified as 9EL1, constructed in 1976, with a maximum throughput of 900 tons per hour, using a baghouse for PM control, and exhausting to stack 9EL.
- (f) One (1) truck dump #5, identified as 12EL1, constructed prior to 1977, with a maximum throughput of 600 tons per hour, using a baghouse for PM control, and exhausting to stack 12EL.
- (g) One (1) jumbo silo east tunnel belt, one (1) jumbo silo west tunnel belt, and one (1) jumbo silo crossover tunnel belt, identified as 13EL1, all constructed prior to 1977, with a maximum throughput of 360 tons per hour, each, using a baghouse and oil suppressant for PM control, and exhausting to stack 13EL.
- (h) One (1) truck dump #6, identified as 15EL1, constructed prior to 1977, with a maximum throughput of 360 tons per hour, using a baghouse for PM control, and exhausting to stack 15EL.
- (i) Two (2) natural gas fired grain dryers, #4 and #5, identified as 17EL1, constructed in the 1960's, with a maximum capacity of 150 tons per hour and a maximum heat input capacity of 14 MMBtu/hr, total, using self-cleaning screens for PM control, and exhausting to vent 17EL.
- (j) One (1) Lec. Dept. filter aid unit, identified as 204RO1, constructed in 1980, with a maximum throughput of 2.5 tons per hour, using a baghouse for PM control, and exhausting to stack 204RO.
- (k) Daily use bins, identified as 102EO1, constructed in 1976, with a maximum throughput of 2.5 tons per hour, each, using a baghouse for PM control, and exhausting to stack 102EO.
- (l) Filter aid silos, identified as 103EO1, constructed in 1976, with a maximum throughput of 16 tons per hour, each, using a baghouse for PM control, and exhausting to stack 103EO.
- (m) Salt conveying, identified as 4SP1, constructed in 1981, with a maximum throughput of 21 tons per hour, using a baghouse for PM control, and exhausting to stack 4SP.
- (n) Six (6) flaking rolls, #1, #2, #3, #4, #5, and #6, constructed in 1996, and B flake n/s drag, constructed in 1991, all identified together as 1EX1, with a maximum throughput of 93.1 tons per hour, total, using fabric filters for PM control, and exhausting to stack 1EX.

- (o) One (1) flaking roll #14 and flaking roll discharge #14, identified as 1EX2, constructed in 1991, with a maximum throughput of 93.1 tons per hour, each, using fabric filters for PM control, and exhausting to stack 1EX.
- (p) The following soybean processing equipment, together identified as 3EX1, with a maximum throughput of 48.8 tons per hour, each, sharing a cyclone with 3EX2 for PM control, and exhausting to stack 3EX, consisting of:
 - (1) Four (4) flaking rolls, #9, #10, #11, and #12, constructed in 1978;
 - (2) One (1) flaking roll #13, constructed in 1985;
 - (3) One (1) 'A' flake n/s drag, constructed in 1993; and
 - (4) One (1) 'A' flake e/w drag, constructed in 1993.
- (q) One (1) north run around drag, identified as 3EX2, constructed in 1984, with a maximum throughput of 48.8 tons per hour, sharing a cyclone with 3EX1, and exhausting to stack 3EX.
- (r) The following soybean processing equipment, together identified as 4EX1, with a maximum throughput of 156.3 tons per hour, each, sharing a baghouse with 4EX2 and 4EX3 for PM control, and exhausting to stack 4EX, consisting of:
 - (1) One (1) whole bean scale, constructed in 1989;
 - (2) One (1) 'A' whole bean leg, constructed in 1997;
 - (3) One (1) 'A' surge bin, constructed prior to 1979;
 - (4) One (1) whole bean drag, constructed in 1981; and
 - (5) One (1) 'B' surge bin, constructed prior to 1979.
- (s) A run around rework screw, identified as 4EX2, constructed in 1991, with a maximum throughput of 156.3 tons per hour, sharing a baghouse with 4EX1 and 4EX3 for PM control, and exhausting to stack 4EX.
- (t) The following soybean processing equipment, together identified as 4EX3, with a maximum throughput of 156.3 tons per hour, each, sharing a baghouse with 4EX1 and 4EX2 for PM control, and exhausting to stack 4EX, consisting of:
 - (1) One (1) hull refining screw conveyor, constructed in 1991;
 - (2) One (1) hull refining process, constructed in 1991; and
 - (3) One (1) hull grinding process, constructed in 1987.
- (u) Dehulling equipment, identified as 5EX1, constructed in 1997, with a maximum throughput of 156.3 tons per hour, sharing a baghouse with 5EX3 for PM control, and exhausting to stack 5EX.
- (v) Hot dehulling equipment, identified as 5EX2, constructed in 1991, with a maximum throughput of 156.3 tons per hour, using a baghouse for PM control, and exhausting to stack 33EX.

- (w) Screening aspiration, identified as 5EX3, constructed in 1988, with a maximum throughput of 156.3 tons per hour, sharing a baghouse with 5EX1 for PM control, and exhausting to stack 5EX.
- (x) Truck meal loadout and rail meal loadout, identified as 6EX1, constructed in 1982, replaced in 1999, with a maximum throughput of 150 tons per hour, with truck meal loadout using a baghouse for PM control, and exhausting to stack 6EX, and rail meal loadout using a choke loader for intrinsic PM control of fugitive emissions.
- (y) One (1) soybean meal sizing and grinding operation, collectively identified as 7EX, approved in 2010 for construction, using a baghouse for PM control, and exhausting to stack 7EX, consisting of:
 - (1) One (1) meal screener, identified as 7EX1, with a maximum capacity of 176 tons per hour;
 - (2) Four (4) meal grinders, identified as 7EX2 through 7EX5, each with a maximum capacity of 45 tons per hour; and
 - (3) Associated conveyors.
- (z) One (1) leg No. 2, one (1) mixing conveyor, and one (1) bin drag, together identified as 9EX1, all constructed in 1983, with a maximum throughput of 125 tons per hour, each, using a baghouse for PM control, and exhausting to stack 9EX.
- (aa) The following soybean processing equipment, together identified as 10EX1, with a maximum throughput of 333 tons per hour, each, using a baghouse for PM control, and exhausting to stack 10EX, consisting of:
 - (1) One (1) leg No. 3, constructed in the 1950's;
 - (2) One (1) tunnel drag, constructed in 1983; and
 - (3) One (1) meal loadout drag, constructed in 1982.
- (bb) One (1) kaolin bin, identified as 11EX1, constructed in the 1950's, with a maximum throughput of 15 tons per hour, using a baghouse for PM control, and exhausting to stack 11EX.
- (cc) One (1) meal loadout bin, identified as 12EX1, constructed in 1982, with a maximum throughput of 540 tons per hour, using a baghouse for PM control, and exhausting to stack 12EX.
- (dd) One (1) belt to storage bowls, one (1) large storage bowl, and one (1) small storage bowl, identified as 16EX1, 16EX2, and 16EX3, respectively, all constructed in 1982, with a maximum capacity of 93 tons per hour, each, with no PM control, and exhausting to stack 16EX.
- (ee) Whole bean bins, identified as 18EX1, constructed in the 1940's, with a maximum throughput of 156.3 tons per hour, total, with no PM control, and exhausting to stack 18EX.
- (ff) Meal storage silos with bin vents, identified as 23EX1, constructed in the 1950's, with a maximum throughput of 125 tons per hour, total, using one (1) bin vent filter as control, exhausting to stack 23EX.

- (gg) One (1) hexane extraction system, identified collectively as 24EX, modified prior to 1980, with hexane emissions from the vent system controlled by a mineral oil absorber, and exhausting to stack 24EXA. For reporting purposes, all hexane emissions are collectively accounted for in the total hexane losses named 24EX.
- (1) One (1) 'A' unit, identified as 24 EX1, consisting of 'A' pre-DT, constructed in 1996, 'A' DT, constructed in 1980, and the 'A' Meal Dryer, constructed in 1980 with a maximum capacity of 109.4 tons per hour, each. 'A' pre-DT is on top of and feeds the 'A' DT, which is on top of and feeds the 'A' Meal Dryer. The 'A' pre-DT and the 'A' DT exhaust to the hexane solvent reclaim system. The 'A' Meal Dryer uses a cyclone for PM control, and exhausts to stack 24EX1. Hexane emissions are reported in 24EX.
- (2) One (1) 'B' unit, identified as 24EX2, consisting of 'B' pre-DT, constructed in 1996, 'B' DT, constructed in 1980, and the 'B' Meal Dryer, constructed in 1980 with a maximum capacity of 109.4 tons per hour, each. 'B' pre-DT is on top of and feeds the 'B' DT which is on top of and feeds the 'B' Meal Dryer. The 'B' pre-DT and the 'B' DT exhaust to the hexane solvent reclaim system. The 'B' Meal Dryer uses a cyclone for PM control, and exhausts to stack 24EX2. Hexane emissions are reported in 24EX.
- (3) One meal cooler, identified as 24EX3, constructed in 1996, with a maximum capacity of 110 tons per hour, using two (2) cyclones for PM control, exhausting to stacks 24EX3A and 24EX3B, respectively, with hexane emissions reported in 24EX.
- (hh) The following soybean processing equipment, identified as 17EX2, modified in 1987, with a maximum throughput of 156.3 tons per hour, each, using a cyclone for PM control, and exhausting to stack 17EX, consisting of:
- (1) One (1) flaking roll #8, constructed in 1981; and
- (2) One (1) 'B' flake e/w drag, constructed in 1980.
- (ii) Two (2) conditioners identified as 31EX1 and 31EX2 constructed in 2002, with a maximum capacity of 156.3 tons per hour for each conditioner, and exhausting internally.
- (jj) One (1) enclosed pneumatic ash conveying and loading operation, constructed in the 1950's, identified as emission unit 8SP1, with a maximum throughput of 13.8 tons per hour, using a baghouse for emission control, and exhausting to stack 1SP. The ash loading operation uses water spray for fugitive emission mitigation.

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

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

D.2.1 PSD Minor Limits [326 IAC 2-2]

The Permittee shall comply with the following:

- (a) The amount of soybean grains processed after the grain dryers shall be limited to less than 1,368,750 tons per twelve (12) consecutive month period, with compliance determined at the end of each month, and
- (b) Pursuant to CP 001-4673-00005, issued May 10, 1996 and AA 001-9930-00005, issued September 17, 1998, the PM and PM10 emissions shall be limited as follows:

EU ID	Stack ID	PM Limit (lb/hr)	PM10 Limit (lb/hr)
19EL1	19EL	1.36	0.283
1EX1, 1EX2	1EX	0.474	0.474
4EX1, 4EX2, 4EX3	4EX	1.441	1.441
5EX1, 5EX3	5EX	1.505	1.505
5EX2	33EX	0.171	0.171
24EX1	24EX1	6.79	6.79
24EX2	24EX2	6.79	6.79
24EX3	24EX3A, 24EX3B	2.18, each	2.18, each
23EX1	23EX	0.021	0.021
6EX1	6EX	2.218	2.218

These limits, in combination with the limits in Condition D.1.1 and D.2.1(a), restrict the net increases of PM and PM10 emissions from the modification in 1996 to below the PSD significant levels of twenty-five (25) and fifteen (15) tons per year, respectively. This will render the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration) not applicable to the modification performed in 1996.

- (c) Pursuant to SSM No. 001-29100-00005, the PM and PM10 emissions shall be limited as follows:

EU ID	Stack ID	PM Limit (lb/hr)	PM10 Limit (lb/hr)
7EX	7EX	0.514	0.514

These limits, in combination with the limits in Condition D.2.1(a), restrict the increase of PM and PM10 emissions from SSM No. 001-29100-00005 to below the PSD significant levels of twenty-five (25) and fifteen (15) tons per year, respectively. This will render the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration) not applicable to SSM No. 001-29100-00005.

D.2.2 Particulate Matter (PM) [326 IAC 6-3-2]

Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), particulate emissions from each of following operations shall not exceed the pound per hour limit listed in the table below:

Unit	Process Weight Rate (ton/hr)	PM Limit (lb/hr)
3EL1	900	76.23
4EL1	270	61.82
6EL1	900	76.23
7EL1	360	65.09
8EL1	360	65.09
9EL1	900	76.23
12EL1	600	71.16
13EL1	360	65.09
15EL1	360	65.09
17EL1	150	55.44
19EL1	60	46.29
204RO1	2.5	7.58
102EO1	2.5	7.58
103EO1	16	26.28

Unit	Process Weight Rate (ton/hr)	PM Limit (lb/hr)
4SP1	21	31.53
1EX1	93.1	50.56
1EX2	93.1	50.56
3EX1	48.8	44.35
3EX2	48.8	44.35
4EX1	156.3	55.87
4EX2	156.3	55.87
4EX3	156.3	55.87
5EX1	156.3	55.87
5EX2	156.3	55.87
5EX3	156.3	55.87
6EX1	150	55.44
7EX1	176	57.13
7EX2	45	43.60
7EX3	45	43.60
7EX4	45	43.60
7EX5	45	43.60
Conveyor (each)	176	57.13
9EX1	125	53.55
10EX1	333	64.19
11EX1	15	25.16
12EX1	540	69.88
24EX1	109.4	52.18
24EX2	109.4	52.18
24EX3	110	52.24
16EX1	93	50.55
16EX2	93	50.55
16EX3	93	50.55
18EX1	156.3	55.87
23EX1	125	53.55
8SP1	13.8	23.80
17EX2	156.3	55.87
31EX1	156.3	55.87
31EX2	156.3	55.87

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

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

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

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

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

D.2.3 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

A Preventive Maintenance Plan is required for these facilities and their control devices. Section B - Preventative Maintenance Plan contains the Permittee's obligation with regard to the preventative maintenance plan required by this condition.

Compliance Determination Requirements

D.2.4 Testing Requirements [326 IAC 2-7-6(1),(6)] [326 IAC 2-1.1-11]

- (a) In order to demonstrate compliance with Condition D.2.1(c), the Permittee shall perform PM and PM-10 testing of the meal sizing and grinding operation, unit ID 7EX, no later than 180 days of publication of the new or revised condensable PM test method(s) referenced in the U. S. EPA's Final Rule for Implementation of the New Source Review (NSR) Program for Particulate Matter Less Than 2.5 Micrometers (PM_{2.5}), signed on May 8th, 2008. This testing shall be conducted 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. Testing shall be conducted in accordance with the provisions of 326 IAC 3-6 (Source Sampling Procedures). Section C - Performance Testing contains the Permittee's obligation with regard to the performance testing required by this condition. PM-10 includes filterable and condensable PM.
- (b) In order to demonstrate compliance with Condition D.2.1(b), the Permittee shall perform PM and PM-10 testing of the hot dehulling equipment (5EX2), within sixty (60) days after achieving the maximum capacity, but not later than one hundred eighty (180) days after initial startup, utilizing methods as approved by the Commissioner at least once every five (5) years from the date of the most recent valid compliance demonstration. Testing shall be conducted in accordance with the provisions of 326 IAC 3-6 (Source Sampling Procedures). Section C – Performance Testing contains the Permittee's obligation with regard to the performance testing required by this condition. Testing shall be conducted in accordance with Section C - Performance Testing. PM-10 includes filterable and condensable PM-10.

D.2.5 Particulate Matter (PM) [40 CFR 64 (CAM)]

- (a) In order to comply with Conditions D.2.1 and D.2.2, the baghouses, filters, and cyclones for PM control shall be in operation and control emissions from the listed facilities at all times that these facilities are in operation.
- (b) In order to comply with Conditions D.2.1 and D.2.2, dust control oil shall be applied on all grain received at the dump pits serving the emission units identified as 3EL1, 4EL1, 6EL1, 7EL1, and 13 EL1.
- (c) In order to comply with Conditions D.2.1 and D.2.2, the self-cleaning screens for PM control shall be in operation and control emissions from the grain dryers #4 and #5 (17EL1) at all times that these facilities are in operation.
- (d) 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.2.6 Particulate Matter (PM)

In order to comply with Condition D.2.1(c), the baghouse shall be in operation and control emissions from the meal sizing and grinding operation, unit ID 7EX, at all times when the equipment is in operation.

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

D.2.7 Visible Emissions Notations [40 CFR 64 (CAM)]

- (a) Daily visible emission notations of the grain handling, grain drying, and soybean meal production stack exhausts/vents (6EL, 9EL, 12EL, 13EL, 15EL, 17EL, 204RO, 102EO, 103EO, 4SP, 1EX, 3EX, 4EX, 5EX, 6EX, 7EX, 9EX, 10EX, 11EX, 12EX, 24EX1, 24EX2, 24EX3A, 24EX3B, 23EX, 33EX, 1SP, and 17EX) shall be performed during normal daylight operations. A trained employee shall record whether emissions are normal or abnormal.
- (b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.
- (c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.
- (d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.
- (e) If abnormal emissions are observed, the Permittee shall take reasonable response steps. Section C - Response to Excursions or Exceedances contains the Permittee's obligation with regard to the reasonable response steps required by this condition.

D.2.8 Parametric Monitoring [40 CFR 64 (CAM)]

The Permittee shall record the pressure drop across the baghouses used in conjunction with 6EL1, 9EL1, 12EL1, 13EL1, 15EL1, 204RO1, 102EO1, 103EO1, 4SP1, 1EX1, 1EX2, 4EX1, 4EX2, 4EX3, 5EX1, 5EX2, 5EX3, 6EX1, 7EX, 9EX1, 10EX1, 11EX1, 12EX1, and 8SP1 at least once per day when these facilities are in operation. When for any one reading, the pressure drop across the baghouse is outside the normal range of 0.5 and 12.0 inches of water or a range established during the latest stack test, the Permittee shall take reasonable response steps. Section C – Response to Excursions and Exceedances contains the Permittee's obligation with regard to the reasonable response steps required by this condition. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps 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 or replaced at least once every six (6) months.

D.2.9 Broken or Failed Bag Detection [40 CFR 64 (CAM)]

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

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

D.2.10 Cyclone Failure Detection [40 CFR 64 (CAM)]

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. The emissions unit shall be shut down no later than the completion of the processing of the material in the emission unit. 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).

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

D.2.11 Record Keeping Requirements

- (a) To document the compliance status with Condition D.2.1, the Permittee shall maintain monthly records of the amount of soybean grains processed after the grain dryers.
- (b) To document the compliance status with Condition D.2.7, the Permittee shall maintain a daily record of visible emission notations of the grain handling and soybean meal production processes' stack exhausts. The Permittee shall include in its daily record when a visible emission notation is not taken and the reason for the lack of visible emission notation (e.g. the process did not operate that day).
- (c) To document the compliance status with Condition D.2.8, the Permittee shall maintain a daily record of the pressure drop across the baghouses controlling the grain handling and soybean meal production processes. The Permittee shall include in its daily record when a pressure drop reading is not taken and the reason for the lack of a pressure drop reading (e.g. the process did not operate that day).
- (d) Section C - General Record Keeping Requirements contains the Permittee's obligations with regard to the records required by this condition.

D.2.12 Reporting Requirements

A quarterly summary of the information to document the compliance status with Condition D.2.1(a)(1) shall be submitted not later than thirty (30) days after the end of the quarter being reported. Section C - General Reporting contains the Permittee's obligation with regard to the reporting required by this condition. The report submitted by the Permittee does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34).

SECTION D.3 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description: Boilers and Heaters

- (a) One (1) natural gas fired hydrogen generator furnace, identified as 107EO1, constructed in 1992, with a maximum heat input capacity of 25.2 MMBtu/hr, and exhausting to stack 107EO.
- (b) One (1) natural gas fired steam generator, identified as 110EO1, constructed in 2002, with a maximum heat input capacity of 14 MMBtu/hr, and exhausting to stack 110EO. This is an affected facility under the New Source Performance Standards for Small Industrial - Commercial - Institutional Steam Generating Units 40 CFR 60, Subpart Dc.
- (c) One (1) natural gas fired steam generator #3, identified as 108EO1, constructed in 1994, with a maximum heat input capacity of 14 MMBtu/hr, and exhausting to stack 108EO. This is an affected facility under the New Source Performance Standards for Small Industrial - Commercial - Institutional Steam Generating Units 40 CFR 60, Subpart Dc.
- (d) One (1) B & W coal fired boiler, identified as 1SP1, constructed in 1950, with a maximum heat input capacity of 108 MMBtu/hr, using multiple cyclones and a baghouse for control of particulate and HAPs, and exhausting to stack 1SP.
- (e) One (1) Keeler coal fired boiler, identified as 2SP1, constructed in 1963, with a maximum heat input capacity of 52.75 MMBtu/hr, using multiple cyclones and a baghouse for control of particulate and HAPs, and exhausting to stack 1SP.
- (f) One (1) Murray natural gas fired, vegetable oil-fired, used oil-fired, and hazardous chemical fired boiler, identified as 3SP1, constructed in 1968, with a maximum heat input capacity of 110.2 MMBtu/hr, and exhausting to stack 1SP.

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

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

D.3.1 Particulate Matter Limitation (PM) [326 IAC 6-2-3] [326 IAC 6-2-4]

- (a) Pursuant to 326 IAC 6-2-3(d) (Particulate Emission Limitations for Sources of Indirect Heating), the particulate matter (PM) emissions from the boilers identified as 1SP1, 2SP1, and 3SP1 shall each be limited to less than 0.8 pounds per MMBtu of heat input. The emission limit was calculated by the following equation:

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

Where

C = max ground level concentration (= 50 µm/m³)
Pt = emission rate limit (lbs/MMBtu)
Q = total source heat input capacity (MMBtu/hr) = 271 MMBtu
N = number of stacks = 1
a = plume rise factor = 0.67
h = stack height (ft) = 184

- (b) Pursuant to 326 IAC 6-2-4 (Particulate Emission Limitations for Source of Indirect Heating), the particulate matter (PM) emissions from the boiler identified as 107EO1 shall be limited to less than 0.25 pounds per MMBtu of heat input.

- (c) Pursuant to 326 IAC 6-2-4 (Particulate Emission Limitations for Source of Indirect Heating), the particulate matter (PM) emissions from the boiler identified as 108EO1 shall be limited to less than 0.245 pounds per MMBtu of heat input.
- (d) Pursuant to 326 IAC 6-2-4 (Particulate Emission Limitations for Source of Indirect Heating), the particulate matter (PM) emissions from the boiler identified as 110EO1 shall be limited to less than 0.24 pounds per MMBtu of heat input.

The emission limits for boilers 107EO1, 108EO1, and 110EO1 were calculated by the following equation:

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

Where Pt = emission rate limit (lbs/MMBtu)
Q = total source heat input capacity (MMBtu/hr)

D.3.2 Consent Decree Limits, Compliance, and Record Keeping Requirements

- (a) As used in this section, "Consent Decree" shall mean the consent decree entered on January 16, 2007, in Civil Action No. 2:06-CV-02209, United States District Court for the Central District of Illinois, in which the Permittee and IDEM were parties. As required by Section 41.a of the Consent Decree, the Permittee shall modify their existing Part 70 Operating Permit to incorporate the emission limits set forth in the Control Technology Plan (CTP).
- (b) As required by Section 41.a of the Consent Decree and the Control Technology Plan (CTP), the particulate matter (PM) emissions from the boilers identified as 1SP1 and 2SP1 shall each be limited to less than 0.07 pounds per MMBtu of heat input.

D.3.2 Sulfur Dioxide (SO₂) [326 IAC 7-1.1-1]

Pursuant to 326 IAC 7-1.1-2(a)(1), (Sulfur Dioxide Emission Limitations) the sulfur dioxide emissions from the B&W boiler (1SP1) and the Keeler boiler (2SP1), when combusting coal, shall be less than 6.0 pounds per MMBtu. Pursuant to 326 IAC 7-2-1, compliance shall be demonstrated on a calendar month average in accordance with the coal sampling requirements indicated in Condition D.3.4, Sulfur Dioxide Emissions and Sulfur Content.

D.3.3 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

A Preventive Maintenance Plan is required for these facilities and their control devices. Section B - Preventative Maintenance Plan contains the Permittee's obligation with regard to the preventative maintenance plan required by this condition.

Compliance Determination Requirements

D.3.4 Sulfur Dioxide Emissions and Sulfur Content [326 IAC 2-7-5(3)(A)] [326 IAC 2-7-6]

- (a) Pursuant to 326 IAC 7-2-1(c)(2), The Permittee shall submit quarterly reports of the calendar month average coal sulfur content, coal heat content, the sulfur dioxide emission rate in pounds per MMBtu, and the total monthly coal consumption.
- (b) Pursuant to 326 IAC 7-2-1(e), coal sampling and analysis data shall be collected pursuant to the procedures specified in 326 IAC 3-7-2(b) or 326 IAC 3-7-3 as follows:
 - (1) Minimum Coal Sampling Requirements and Analysis Methods:

- (A) The coal sample acquisition point shall be at a location where representative samples of the total coal flow to be combusted by the facility or facilities may be obtained. A single as-bunkered or as-burned sampling station may be used to represent the coal to be combusted by multiple facilities using the same stockpile feed system;
 - (B) Coal shall be sampled at least one (1) time per day;
 - (C) Minimum sample size shall be five hundred (500) grams;
 - (D) Samples shall be composited and analyzed at the end of each calendar month;
 - (E) Preparation of the coal sample, heat content analysis, and sulfur content analysis shall be determined pursuant to 326 IAC 3-7-2(c); or
- (2) Sample and analyze the coal pursuant to 326 IAC 3-7-3.

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

D.3.5 Visible Emissions Notations

- (a) Visible emission notations of the boiler's (1SP1, 2SP1, 3SP1) stack exhaust (1SP) shall be performed once per day during normal daylight operations. A trained employee shall record whether emissions are normal or abnormal.
- (b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.
- (c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.
- (d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.
- (e) If abnormal emissions are observed, the Permittee shall take reasonable response steps. Section C - Response to Excursions or Exceedances contains the Permittee's obligation with regard to the reasonable response steps required by this condition.

D.3.6 Parametric Monitoring

The Permittee shall record the pressure drop across the baghouse used in conjunction with 1SP1 and 2SP1 at least once per day when these boilers are in operation. When for any one reading, the pressure drop across the baghouse is outside the normal range of 0.5 and 12.0 inches of water or a range established during the latest stack test, the Permittee shall take reasonable response steps. Section C – Response to Excursions and Exceedances contains the Permittee's obligation with regard to the reasonable response steps required by this condition. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps 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 or replaced at least once every six (6) months.

D.3.7 Broken or Failed Bag Detection

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

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

D.3.8 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. The emissions unit shall be shut down no later than the completion of the processing of the material in the emission unit. 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).

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

D.3.9 Record Keeping Requirements

- (a) To document the compliance status with Conditions D.3.2 and D.3.4, the Permittee shall maintain records in accordance with (1) through (5) below. Records maintained for (1) through (5) shall be taken monthly and shall be complete and sufficient to establish compliance with the PM and SO₂ emission limits established in Conditions D.3.2 and D.3.4.
 - (1) Calendar dates covered in the compliance determination period;
 - (2) Actual coal usage since last compliance determination period;
 - (3) Sulfur content, heat content, and ash content;
 - (4) Sulfur dioxide emission rates; and
 - (5) Independent laboratory analysis of coal.
- (b) To document the compliance status with Condition D.3.5, the Permittee shall maintain a daily record of visible emission notations of the boiler's stack exhaust (SP1). The Permittee shall include in its daily record when a visible emission notation is not taken and the reason for the lack of visible emission notation (e.g. the process did not operate that day).

- (c) To document the compliance status with Condition D.3.6, the Permittee shall maintain a daily record of the pressure drop across the baghouses controlling the boilers. The Permittee shall include in its daily record when a pressure drop reading is not taken and the reason for the lack of a pressure drop reading (e.g. the process did not operate that day).
- (d) Section C - General Record Keeping Requirements contains the Permittee's obligations with regard to the records required by this condition.

D.3.10 Reporting Requirements

A quarterly summary of the information to document the compliance status with Conditions D.3.2 and D.3.4 shall be submitted not later than thirty (30) days after the end of the quarter being reported. Section C - General Reporting contains the Permittee's obligation with regard to the reporting required by this condition. The report submitted by the Permittee does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34).

SECTION D.4 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description: Hexane Extraction System

- (a) One (1) hexane extraction system, identified collectively as 24EX, modified prior to 1980, with hexane emissions from the vent system controlled by a mineral oil absorber, and exhausting to stack 24EXA. For reporting purposes, all hexane emissions are collectively accounted for in the total hexane losses named 24EX.
- (1) One (1) 'A' unit, identified as 24 EX1, consisting of 'A' pre-DT, constructed in 1996, 'A' DT, constructed in 1980, and the 'A' Meal Dryer, constructed in 1980 with a maximum capacity of 109.4 tons per hour, each. 'A' pre-DT is on top of and feeds the 'A' DT, which is on top of and feeds the 'A' Meal Dryer. The 'A' pre-DT and the 'A' DT exhaust to the hexane solvent reclaim system. The 'A' Meal Dryer uses a cyclone for PM control, and exhausts to stack 24EX1. Hexane emissions are reported in 24EX.
 - (2) One (1) 'B' unit, identified as 24EX2, consisting of 'B' pre-DT, constructed in 1996, 'B' DT, constructed in 1980, and the 'B' Meal Dryer, constructed in 1980, with a maximum capacity of 109.4 tons per hour, each. 'B' pre-DT is on top of and feeds the 'B' DT which is on top of and feeds the 'B' Meal Dryer. The 'B' pre-DT and the 'B' DT exhaust to the hexane solvent reclaim system. The 'B' Meal Dryer uses a cyclone for PM control, and exhausts to stack 24EX2. Hexane emissions are reported in 24EX.
 - (3) One meal cooler, identified as 24EX3, constructed in 1996, with a maximum capacity of 110 tons per hour, using two (2) cyclones for PM control, exhausting to stacks 24EX3A and 24EX3B, respectively, with hexane emissions reported in 24EX.
 - (4) Two (2) hexane storage tanks, identified as 24EX4A and 24EX4B, constructed in 1995 and 2005, respectively, with emissions vented to the mineral oil absorber inlet, with hexane emissions reported in 24EX.
 - (5) One (1) wastewater system, identified as 24 EX5, constructed prior to 1980, containing traces of hexane, exhausting to the extraction hot water separation pit, with hexane emissions reported in 24EX.
 - (6) One (1) refined oil hot well, identified as 24 EX6, constructed in 1975, with hexane emissions reported in 24EX.
 - (7) One (1) sampling /hexane unloading port, identified as 24 EX7, with hexane emissions reported in 24EX.
 - (8) Oil tanks containing non-deodorized oil, identified as 24EX8, venting to the atmosphere, with hexane emissions reported at 24EX.

The hexane extraction system (24EX, consisting of 24EX1 through 24EX8) are affected facilities under the National Emission Standards for Hazardous Air Pollutants: Solvent Extraction for Vegetable Oil Production 40 CFR 63, Subpart GGGG.

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

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

D.4.1 PSD Minor Limit [326 IAC 2-2]

Pursuant to CP (002) 2005, issued August 23, 1991, the hexane usage for all of the oil extraction facilities (24EX, consisting of 24EX1 through 24EX8) combined shall be limited to less than 330,000 gallons per twelve (12) consecutive month period, with compliance determined at the end of each month, to ensure that the increase in hexane emissions from these units remains below 39.2 tons per year. This will ensure that 326 IAC 2-2 (Prevention of Significant Deterioration) does not apply to this modification.

D.4.2 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

A Preventive Maintenance Plan is required for these facilities and their control devices. Section B - Preventative Maintenance Plan contains the Permittee's obligation with regard to the preventative maintenance plan required by this condition.

Compliance Determination Requirements

D.4.3 Volatile Organic Compounds (VOC)

In order to comply with Condition D.4.1, the mineral oil absorber for VOC control shall be in operation and control emissions from the listed facilities at all times when the facilities are in operation.

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

D.4.4 Monitoring

To document compliance with Condition D.4.1, the mineral oil absorption vent VOC (hexane) emission rate shall be determined daily by measuring the airflow rate and the concentration of hexane in the air stream. This concentration will be determined daily by measuring percent Lower Explosive Limit (LEL). If the air flow meter proves unreliable, airflow can be determined by calculations.

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

D.4.5 Record Keeping Requirements

-
- (a) To document the compliance status with Condition D.4.1, the Permittee shall maintain records of the hexane usage for the oil extraction facilities.
 - (b) Section C - General Record Keeping Requirements contains the Permittee's obligations with regard to the records required by this condition.

D.4.6 Reporting Requirements

A quarterly summary of the information to document the compliance status with Condition D.4.1 shall be submitted not later than thirty (30) days after the end of the quarter being reported. Section C - General Reporting contains the Permittee's obligation with regard to the reporting required by this condition. The report submitted by the Permittee does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34).

Consent Decree

D.4.7 Consent Decree Limits, Compliance, and Record Keeping Requirements

-
- (a) As used in this section, "Consent Decree" shall mean the consent decree entered on January 16, 2007, in Civil Action No. 2:06-CV-02209, United States District Court for the Central District of Illinois, in which the Permittee and IDEM were parties.

- (b) The provisions of this subsection are designed to ensure compliance with the final volatile organic compound solvent loss ratio requirements of the consent decree entered into between the Permittee and IDEM on October 26, 2006. Nothing in this subsection is intended to expand, restrict or otherwise alter the obligations imposed on The Permittee by the consent decree.
- (c) The VOC solvent loss ratio (SLR) for this facility shall be 0.15 gallons of solvent lost per ton of oilseed processed for conventional soybean processing at this existing source. To determine compliance with the VOC SLR limit, the Permittee shall maintain a Compliance Ratio of less than or equal to 1.0, which compliance ratio shall be calculated as follows:

$$\text{Compliance Ratio} = \text{Actual Solvent Loss (gal)} / \text{Allowable Solvent Loss (gal)}$$

Where:

Actual Solvent Loss (gal) = Gallons of solvent loss during previous 12 operating months

Allowable Solvent Loss = Oilseed (tons) * VOC Solvent Loss Ratio

Oilseed (tons) = Tons of each oilseed processed during the previous 12 operating months

VOC Solvent Loss Ratio (SLR) = 0.15 gallons per ton of oilseed

- (d) Solvent losses and quantities of oilseed processed during startup and shutdown periods shall not be excluded in determining solvent losses.
- (e) For purposes of calculating SLR, the Permittee may apply the provisions of 40 CFR Part 63, Subpart GGGG, pertaining to malfunction periods when both of the following conditions are met:
- (1) The malfunction results in a total plant shutdown, which means a shutdown of the solvent extraction system; and
 - (2) The total amount of solvent loss to which the provisions of 40 CFR Part 63, Subpart GGGG relating to malfunctions is applied in a rolling 12-month period does not exceed the Allowable Malfunction Volume as determined below. The Allowable Malfunction Volume in gallons is equal to the facility's 12-month Crush capacity times its final VOC SLR limit (0.15 gal/ton) times 0.024, as follows:

$$\text{Allowable Malfunction Volume (gal)} = \text{12-month Crush capacity (tons)} * \text{Final VOC SLR limit (0.15 gal/ton)} * 0.024$$

Except as otherwise set forth herein, the Permittee shall include all solvent losses when determining compliance with the VOC SLR limits. The total solvent loss corresponding to a malfunction period shall be calculated as the difference in the solvent inventory, as defined in 40 CFR 63.2862(c)(1), for the day before the malfunction period began and the solvent inventory on the day the plant resumes normal operation. During a malfunction period, the facility shall comply with the Startup, Shutdown, Malfunction (SSM) Plan as required under Subpart GGGG.

- (f) To document the compliance status with the Consent Decree, the Permittee shall maintain the following records in accordance with (1) through (5) below. Records maintained for (1) through (5) shall be taken monthly and shall be complete and sufficient to establish compliance with the VOC SLR limits established in paragraph (c) above. Records necessary to demonstrate compliance shall be available within 30 days of the end of each compliance period.
- (1) The amount of oilseed processed, in tons, on a monthly basis.

- (2) The total solvent loss due to malfunction, in gallons, for each month.
- (3) The total solvent loss during normal operations, in gallons, for each month.
- (4) The adjusted solvent loss (total solvent loss - allowable malfunction volume), in gallons, for each month.
- (5) The solvent loss ratio.

SECTION D.5 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

- (a) One (1) batch enzyme bag unloader, with a maximum throughput rate of 51 tons per year, identified as 112EO1, approved in 2009 for construction, using a baghouse for emission control and exhausting to stack 112EO.

This emission unit is not an affected facility under the National Emission Standards for Hazardous Air Pollutants: Solvent Extraction for Vegetable Oil Production 40 CFR 63, Subpart GGGG.

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

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

D.5.1 Particulate Emissions [326 IAC 6-3-2]

Pursuant to 326 IAC 6-3-2, the particulate emission from the Batch Enzyme Bag Unloader, 112EO1, shall be limited to 9.1 pounds per hour at a process weight rate of 3.3 tons per hour. This particulate emissions limit shall be determined using the following equation:

Interpolation of the data in this table for process weight rates up to sixty thousand (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
P = Process weight rate in tons per hour

SECTION D.6 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description: Pelletizer/Pellet Cooler System

- (a) One (1) pelletizer/pellet cooler to produce pellets from the existing dehulling/grinding (millfeed) system, approved in 2009 for construction, with a maximum rate of 10 tons per hour, identified as 32EX1, using a high efficiency cyclone for emission control and exhausting to stack 32EX.
- (b) One (1) totally enclosed conveyor, approved in 2009 for construction, with a maximum rate of 10 tons per hour, identified as 32EX2.
- (c) One (1) loadout bin, identified as 29EX1, constructed in 1994, with a maximum capacity of 10 tons per hour, using a bin vent filter for PM control, and exhausting to stack 29EX.

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

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

D.6.1 Particulate Matter (PM) [326 IAC 6-3-2]

Pursuant to 326 IAC 6-3-2 (Process Operations), particulate emissions from each of following operations shall not exceed the pound per hour limit listed in the table below:

Unit	Process Weight Rate (ton/hr)	PM Limit (lb/hr)
29EX1	10	19.18
32EX1	10	19.18
32EX2	10	19.18

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

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

D.6.2 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

A Preventive Maintenance Plan is required for these facilities and their control devices. Section B - Preventative Maintenance Plan contains the Permittee's obligation with regard to the preventative maintenance plan required by this condition.

Compliance Determination Requirements

D.6.3 Particulate Control

The cyclone shall be in operation at all times when the pelletizer/pellet cooler is in operation.

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

D.6.4 Visible Emissions Notations

- (a) Daily visible emission notations of pelletizer/pellet cooler cyclone stack 32EX and loadout bin stack 29EX shall be performed during normal daylight operations. A trained employee shall record whether emissions are normal or abnormal.

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

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

D.6.5 Record Keeping Requirements

- (a) To document the compliance status with Condition D.6.5, the Permittee shall maintain records of daily visible emission notations of the pelletizer/pellet cooler cyclone stack 32EX and loadout bin stack 29EX. The Permittee shall include in its daily record when a visible emission notation is not taken and the reason for the lack of visible emission notation (e.g. the pelletizer/pellet cooler did not operate that day; loadout bin was not loaded, etc.).
- (b) Section C - General Record Keeping Requirements contains the Permittee's obligations with regard to the records required by this condition.

SECTION E.1 NEW SOURCE PERFORMANCE STANDARDS (NSPS) FOR GRAIN ELEVATORS [40 CFR 60, Subpart DD]

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

- (a) Truck Dump #2, identified as 1EL1, constructed in 1980, with a maximum capacity of 600 tons per hour, using a baghouse for particulate matter (PM) control, and exhausting to stack 1EL. This is an affected facility under the New Source Performance Standard for Grain Elevators 40 CFR 60.300, Subpart DD.
- (b) The following grain elevator components together identified as 10EL1, with a maximum throughput of 720 tons per hour, each, using a baghouse and oil suppressant for PM control, and exhausting to stack 10EL, consisting of:
 - (1) One (1) rail loadout, constructed in 1984. This is an affected facility under the New Source Performance Standard for Grain Elevators 40 CFR 60.300, Subpart DD;
- (c) One (1) natural gas fired grain dryer #2, identified as 19EL1, constructed in 1995, with a maximum capacity 60 tons per hour and a maximum heat input capacity of 7 MMBtu/hr, using self-cleaning screens for PM control, and exhausting to vent 19EL. This is an affected facility under the New Source Performance Standard for Grain Elevators 40 CFR 60.300, Subpart DD.
- (d) One (1) truck dump #7, identified as 20EL1, constructed in 1997, with a maximum throughput of 450 tons per hour, consisting of one (1) weigh scale truck unloading pit, and two (2) enclosed bucket elevator legs, using two (2) baghouses in parallel for PM control, and exhausting to stack 20EL. This is an affected facility under the New Source Performance Standard for Grain Elevators 40 CFR 60.300, Subpart DD.
- (e) One (1) natural gas fired grain dryer #1, identified as 16EL1, constructed in 1986, with a maximum capacity of 75 tons per hour and a maximum heat input capacity of 7 MMBtu/hr, using self-cleaning screens for PM control, and exhausting to stack 16EL. This is an affected facility under the New Source Performance Standard for Grain Elevators 40 CFR 60.300, Subpart DD.

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

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

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

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

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

E.1.2 Standards of Performance for Grain Elevators [40 CFR 60, Subpart DD] [326 IAC 12]

Pursuant to 40 CFR 60, Subpart DD, the Permittee shall comply with the provisions of Standards of Performance Standards of Performance for Grain Elevators, which are incorporated by reference as 326 IAC 12, (included as attachment A of this permit) as specified as follows:

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

SECTION E.2 NEW SOURCE PERFORMANCE STANDARDS (NSPS) FOR SMALL INDUSTRIAL-COMMERCIAL-INSTITUTIONAL STEAM GENERATING UNITS [40 CFR 60, Subpart Dc]

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

- (a) One (1) natural gas fired hydrogen generator furnace, identified as 107EO1, constructed in 1992, with a maximum heat input capacity of 25.2 MMBtu/hr, and exhausting to stack 107EO. This is an affected facility under the New Source Performance Standards for Small Industrial - Commercial - Institutional Steam Generating Units 40 CFR 60, Subpart Dc.
- (b) One (1) natural gas fired steam generator, identified as 110EO1, constructed in 2002, with a maximum heat input capacity of 14 MMBtu/hr, and exhausting to stack 110EO. This is an affected facility under the New Source Performance Standards for Small Industrial - Commercial - Institutional Steam Generating Units 40 CFR 60, Subpart Dc.
- (c) One (1) natural gas fired steam generator #3, identified as 108EO1, constructed in 1994, with a maximum heat input capacity of 14 MMBtu/hr, and exhausting to stack 108EO. This is an affected facility under the New Source Performance Standards for Small Industrial - Commercial - Institutional Steam Generating Units 40 CFR 60, Subpart Dc.

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

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

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

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

E.2.2 Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units [40 CFR 60, Subpart Dc] [326 IAC 12]

Pursuant to 40 CFR 60, Subpart Dc, the Permittee shall comply with the provisions of Standards of Performance Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units, which are incorporated by reference as 326 IAC 12, (included as attachment B of this permit) as specified as follows:

- (1) 40 CFR 60.40c (a) and (b)
- (2) 40 CFR 60.41c
- (3) 40 CFR 60.48c (a)(1), (g), and (i)

SECTION E.3 NATIONAL EMISSION STANDARDS FOR HAZARDOUS AIR POLLUTANTS: SOLVENT EXTRACTION FOR VEGETABLE OIL PRODUCTION [40 CFR 63, Subpart GGGG]

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

- (a) One (1) hexane extraction system, identified collectively as 24EX, modified prior to 1980, with hexane emissions from the vent system controlled by a mineral oil absorber, and exhausting to stack 24EXA. For reporting purposes, all hexane emissions are collectively accounted for in the total hexane losses named 24EX.
- (1) One (1) 'A' unit, identified as 24 EX1, consisting of 'A' pre-DT, constructed in 1996, 'A' DT, constructed in 1980, and the 'A' Meal Dryer, constructed in 1980 with a maximum capacity of 109.4 tons per hour, each. 'A' pre-DT is on top of and feeds the 'A' DT, which is on top of and feeds the 'A' Meal Dryer. The 'A' pre-DT and the 'A' DT exhaust to the hexane solvent reclaim system. The 'A' Meal Dryer uses a cyclone for PM control, and exhausts to stack 24EX1. Hexane emissions are reported in 24EX.
 - (2) One (1) 'B' unit, identified as 24EX2, consisting of 'B' pre-DT, constructed in 1996, 'B' DT, constructed in 1980, and the 'B' Meal Dryer, constructed in 1980 with a maximum capacity of 109.4 tons per hour, each. 'B' pre-DT is on top of and feeds the 'B' DT which is on top of and feeds the 'B' Meal Dryer. The 'B' pre-DT and the 'B' DT exhaust to the hexane solvent reclaim system. The 'B' Meal Dryer uses a cyclone for PM control, and exhausts to stack 24EX2. Hexane emissions are reported in 24EX.
 - (3) One meal cooler, identified as 24EX3, constructed in 1996, with a maximum capacity of 110 tons per hour, using two (2) cyclones for PM control, exhausting to stacks 24EX3A and 24EX3B, respectively, with hexane emissions reported in 24EX.
 - (4) Two (2) hexane storage tanks, identified as 24EX4A and 24EX4B, constructed in 1995 and 2005, respectively, with emissions vented to the mineral oil absorber inlet, with hexane emissions reported in 24EX.
 - (5) One (1) wastewater system, identified as 24 EX5, constructed prior to 1980, containing traces of hexane, exhausting to the extraction hot water separation pit, with hexane emissions reported in 24EX.
 - (6) One (1) refined oil hot well, identified as 24 EX6, constructed in 1975, with hexane emissions reported in 24EX.
 - (7) One (1) sampling /hexane unloading port, identified as 24 EX7, with hexane emissions reported in 24EX.
 - (8) Oil tanks containing non-deodorized oil, identified as 24EX8, venting to the atmosphere, with hexane emissions reported at 24EX.

The hexane extraction system (24EX, consisting of 24EX1 through 24EX8) are affected facilities under the National Emission Standards for Hazardous Air Pollutants: Solvent Extraction for Vegetable Oil Production 40 CFR 63, Subpart GGGG.

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

E.3.1 General Provisions Relating to NESHAP GGGG [326 IAC 20-1] [40 CFR Part 63, Subpart A]

(a) Pursuant to 40 CFR 63.4480, the Permittee shall comply with the provisions of 40 CFR Part 63, Subpart A – General Provisions, which are incorporated by reference as 326 IAC 20-1-1, as specified in 40 CFR Part 63, Subpart GGGG in accordance with schedule in 40 CFR 63 Subpart GGGG.

(b) Pursuant to 40 CFR 63.10, the Permittee shall submit all required notifications and reports to:

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

E.3.2 Solvent Extraction for Vegetable Oil Production NESHAP [326 IAC 20-60][40 CFR Part 63, Subpart GGGG]

The Permittee which engages in production of vegetable oil shall comply with the following provisions of 40 CFR 63, Subpart GGGG (included as Attachment C of this permit), as specified as follows:

- (1) 40 CFR 63.2830
- (2) 40 CFR 63.2831
- (3) 40 CFR 63.2832
- (4) 40 CFR 63.2833(a), (d)
- (5) 40 CFR 63.2834
- (6) 40 CFR 63.2840(a), (b), (c), (d)
- (7) 40 CFR 63.2850(a), (b), (e)
- (8) 40 CFR 63.2851
- (9) 40 CFR 63.2852
- (10) 40 CFR 63.2853
- (11) 40 CFR 63.2854
- (12) 40 CFR 63.2855
- (13) 40 CFR 63.2860(a), (c), (d)
- (14) 40 CFR 63.2861
- (15) 40 CFR 63.2862
- (16) 40 CFR 63.2863
- (17) 40 CFR 63.2870
- (18) 40 CFR 63.2871
- (19) 40 CFR 63.2872

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
PART 70 OPERATING PERMIT
CERTIFICATION**

Source Name: Bunge North America (East), LLC
Source Address: 1200 North 2nd Street, Decatur, Indiana 46733
Part 70 Permit No.: T001-23640-00005

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 and ENFORCEMENT BRANCH
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251
Phone: 317-233-0178
Fax: 317-233-6865**

**PART 70 OPERATING PERMIT
EMERGENCY OCCURRENCE REPORT**

Source Name: Bunge North America (East), LLC
Source Address: 1200 North 2nd Street, Decatur, Indiana 46733
Part 70 Permit No.: T001-23640-00005

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 317-233-0178, ask for Compliance Section); and
 - The Permittee must submit notice in writing or by facsimile within two (2) working days (Facsimile Number: 317-233-6865), and follow the other requirements of 326 IAC 2-7-16.

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

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

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

Page 2 of 2

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

Form Completed by: _____

Title / Position: _____

Date: _____

Phone: _____

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

Part 70 Quarterly Report

Source Name: Bunge North America (East), LLC
Source Address: 1200 North 2nd Street, Decatur, Indiana 46733
Part 70 Permit No.: T001-23640-00005
Facility: Oil Extraction facilities
Parameter: Hexane Usage
Limit: Less than 330,000 gallons per twelve consecutive month period.

QUARTER: _____ YEAR: _____

Month	Column 1	Column 2	Column 1 + Column 2
	This Month	Previous 11 Months	12 Month Total
Month 1			
Month 2			
Month 3			

No deviation occurred in this month.

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

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

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT OFFICE OF AIR QUALITY COMPLIANCE and ENFORCEMENT BRANCH

Part 70 Quarterly Report

Source Name: Bunge North America (East), LLC
Source Address: 1200 North 2nd Street, Decatur, Indiana 46733
Part 70 Permit No.: T001-23640-00005
Facility: Grain Processing facilities
Parameter: Soybean grain processed after the grain dryers
Limit: Less than 1,368,750 tons per twelve consecutive month period

QUARTER: _____ YEAR: _____

Month	Column 1	Column 2	Column 1 + Column 2
	This Month	Previous 11 Months	12 Month Total
Month 1			
Month 2			
Month 3			

No deviation occurred in this quarter.

Deviation/s occurred in this quarter.

Deviation has been reported on:

Submitted by: _____

Title / Position: _____

Signature: _____

Date: _____

Phone: _____

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

Part 70 Quarterly Report

Source Name: Bunge North America (East), LLC
Source Address: 1200 North 2nd Street, Decatur, Indiana 46733
Part 70 Permit No.: T001-23640-00005
Facility: Coal-fired Boilers (1SP1 and 2SP1)
Parameter: SO₂ Emissions
Limit: Less than 6.0 pounds per MMBtu

QUARTER: _____ YEAR: _____

Month	Coal Sulfur Content (lb/ton)	Coal Heat Content (MMBtu/ton)	SO ₂ Emission Rate (lbs/MMBtu)	Coal Consumption (tons)
Month 1				
Month 2				
Month 3				

No deviation occurred in this month.

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

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

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE and ENFORCEMENT BRANCH
PART 70 OPERATING PERMIT
QUARTERLY DEVIATION AND COMPLIANCE MONITORING REPORT**

Source Name: Bunge North America (East), LLC
Source Address: 1200 North 2nd Street, Decatur, Indiana 46733
Part 70 Permit No.: T001-23640-00005

Months: _____ to _____ Year: _____

Page 1 of 2

<p>This report shall be submitted quarterly based on a calendar year. Any deviation from the requirements of this permit, 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".</p>	
<p><input type="checkbox"/> NO DEVIATIONS OCCURRED THIS REPORTING PERIOD.</p>	
<p><input type="checkbox"/> THE FOLLOWING DEVIATIONS OCCURRED THIS REPORTING PERIOD</p>	
<p>Permit Requirement (specify permit condition #)</p>	
<p>Date of Deviation:</p>	<p>Duration of Deviation:</p>
<p>Number of Deviations:</p>	
<p>Probable Cause of Deviation:</p>	
<p>Response Steps Taken:</p>	
<p>Permit Requirement (specify permit condition #)</p>	
<p>Date of Deviation:</p>	<p>Duration of Deviation:</p>
<p>Number of Deviations:</p>	
<p>Probable Cause of Deviation:</p>	
<p>Response Steps Taken:</p>	

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: _____

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

**Technical Support Document (TSD) for a Part 70 Significant Permit
Modification**

Source Description and Location

Source Name:	Bunge North America (East), LLC
Source Location:	1200 N. 2nd Street, Decatur, Indiana 46733
County:	Adams
SIC Code:	2075
Operation Permit No.:	T 001-23640-00005
Operation Permit Issuance Date:	April 8, 2008
Significant Permit Modification No.:	001-29887-00005
Permit Reviewer:	Denny Vendt

Existing Approvals

The source was issued Part 70 Operating Permit Renewal No. 001-23640-00005 on April 8, 2008. The source has since received the following approvals:

Permit Type	Permit Number	Issuance Date
First Administrative Amendment	001-26472-00005	5-07-2008
Second Administrative Amendment	001-27445-00005	2-27-2009
Third Administrative Amendment	001-27635-00005	4-28-2009
First Significant Source Modification	001-28224-00005	11-06-2009
First Significant Permit Modification	001-27816-00005	11-24-2009
Second Significant Source Modification	001-29100-00005	7-08-2010
First Interim Significant Source Modification	001-29347I-00005	7-09-2010
Second Significant Permit Modification	001-29164-00005	8-04-2010
Third Significant Source Modification	001-29347-00005	8-17-2010
Third Significant Permit Modification	001-29371-00005	9-01-2010

County Attainment Status

The source is located in Adams County.

Pollutant	Designation
SO ₂	Better than national standards.
CO	Unclassifiable or attainment effective November 15, 1990.
O ₃	Unclassifiable or attainment effective June 15, 2004, for the 8-hour ozone standard. ¹
PM ₁₀	Unclassifiable effective November 15, 1990.
NO ₂	Cannot be classified or better than national standards.
Pb	Not designated.
¹ Unclassifiable or attainment effective October 18, 2000, for the 1-hour ozone standard which was revoked effective June 15, 2005. Unclassifiable or attainment effective April 5, 2005, for PM _{2.5} .	

(a) Ozone Standards

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. Adams County has been designated as attainment or unclassifiable for ozone. Therefore, VOC and NOx emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.

(b) PM_{2.5}

Adams County has been classified as attainment for PM_{2.5}. On May 8, 2008 U.S. EPA promulgated the requirements for Prevention of Significant Deterioration (PSD) for PM_{2.5} emissions. These rules became effective on July 15, 2008. Indiana has three years from the publication of these rules to revise its PSD rules, 326 IAC 2-2, to include those requirements. The May 8, 2008 rule revisions require IDEM to regulate PM₁₀ emissions as a surrogate for PM_{2.5} emissions until 326 IAC 2-2 is revised.

(c) Other Criteria Pollutants

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

Fugitive Emissions

This type of operation is not one of the twenty-eight (28) listed source categories under 326 IAC 2-2, 326 IAC 2-3, or 326 IAC 2-7, however, the grain elevator has an applicable New Source Performance Standard that was in effect on August 7, 1980, therefore fugitive emissions are counted toward the determination of PSD applicability.

Source Status

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

Pollutant	Emissions (ton/yr)
PM	>250
PM ₁₀	>250
PM _{2.5}	>250
SO ₂	>250
VOC	>250
CO	>250
NO _x	>250
Total HAPs	>25
Single HAPs	>10

- (a) This existing source is a major stationary source, under PSD (326 IAC 2-2), because a regulated pollutant is emitted at a rate of 250 tons per year or more, and it is not one of the twenty-eight (28) listed source categories, as specified in 326 IAC 2-2-1(gg)(1).
- (b) These emissions are based upon the Technical Support Document for Significant Permit Modification No. 001-29371-00005.
- (c) This existing source is a major source of HAPs, as defined in 40 CFR 63.2, because HAP emissions are greater than ten (10) tons per year for a single HAP and greater than twenty-five (25) tons per year for a combination of HAPs. Therefore, this source is a major source under Section 112 of the Clean Air Act (CAA).

Description of Proposed Modification

The Office of Air Quality (OAQ) has reviewed a modification application, submitted by Bunge North America (East), LLC on November 17, 2010, relating to the addition of process rates to unit descriptions as these are no longer confidential, the removal of CAM requirements from units 3EL1, 4EL1, 16EX1, 16EX2, 16EX3 and 18EX1 that are not applicable to CAM and the addition of parametric monitoring for the control device EX1 that controls emission units 1EX1 and 1EX2.

The Office of Air Quality (OAQ) also concurrently reviewed another modification application, submitted by Bunge North America (East), LLC on February 28, 2011, relating to the reconfiguration of the hot dehulling equipment exhaust to a new baghouse, 33EX.

The following is the modified emission unit with a new pollution control device:

- (a) Hot dehulling equipment, identified as 5EX2, constructed in 1991, with a maximum throughput of 156.3 tons per hour, using a baghouse for PM control, and exhausting to stack 33EX.

Enforcement Issues

There are no pending enforcement actions related to this modification.

Stack Summary

Stack ID	Operation	Height (ft)	Diameter (inches)	Flow Rate (acfm)	Temperature (°F)
EX33	Hot Dehulling Process	8.25	11 x 12.5	4,000	90

Emission Calculations

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

Permit Level Determination – Part 70

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

The following table is used to determine the appropriate permit level under 326 IAC 2-7-10.5. This table reflects the PTE before controls. Control equipment is not considered federally enforceable until it has been required in a federally enforceable permit.

Increase in PTE Before Controls of the Modification	
Pollutant	Potential To Emit (ton/yr)
PM	0.75
PM ₁₀	0.75
PM _{2.5}	0.38
SO ₂	-
VOC	-
CO	-
NO _x	-
Single HAPs	-
Total HAPs	-

This modification is not subject to the source modification requirements under 326 IAC 2-7-10.5 because the increase in potential emissions resulting from the installation of the new baghouse are below the thresholds outlined in 326 IAC 2-7-10.5 that require a source modification. The changes will be incorporated into the permit as a Significant Permit Modification under 326 IAC 2-7-12(d), because the modification changes a case-by-case determination of an existing emission limitation in the Part 70 operating permit .

Permit Level Determination – PSD

The table below summarizes the potential to emit, reflecting all limits, of the emission units. Any control equipment is considered federally enforceable only after issuance of this Part 70 permit modification, and only to the extent that the effect of the control equipment is made practically enforceable in the permit.

Process / Emission Unit	Potential to Emit (ton/yr)						
	PM	PM ₁₀	SO ₂	VOC	CO	NO _x	
New Units				0.186	0.124	32.6	1.55
#2 Grain Dryer	19EL	5.97	1.24				
(#1-#6) Flaking Rolls and B Flake n/s drag	1EX	2.262	1.403				
Hull refining and grinding 'A' RJ	4EX	5.18	1.008				
Dehulling Equipment	5EX	6.67	0.367				
Hot Dehulling	33EX	0.75	0.75				
Existing Units (Increased Utilization)							
Loadout System (Rail Loadout)	6EX	0.0742	0.011				
Megamill Grinders and Sizing Equipment	7EX	1.639	1.211				
Meal Dryers	13EX, 14EX	13	7.75				
Bean Conditioning	17EX	1.26	0.758				
DTDC Cooler	21EX	77.8	47.3				
Mill Feed Bin Loading	22EX	0.407	0.208				
Meal Storage Bin Loading	23EX	2.88	1.45				
Total for Modification*		117.9	63.5	0.186	0.124	32.6	1.55
Contemporaneous Increase		2.3	1.5	-	-	-	-
Contemporaneous Decrease		158	54.5	-	-	-	-
Total for Modification after Netting		-37.8	10.5	0.186	0.124	32.6	1.55
Significant Level		25	15	40	40	100	40

* The original construction permit (CP 001-4673-00005) totalled all the PM emissions from the affected units and rounded up to 135 tons per year (TPH). The amendment permit (001-9930-00005) revised the original netting analysis by removing emissions associated with units never constructed and adding emissions resulting from derating the control efficiencies of several baghouses. The revised netting analysis of the amended construction permit resulted in an overall reduction of PM and PM10 emissions from the original totals of 135 TPH of PM and 63.7 TPH of PM10. The corresponding emissions that were removed were subtracted from the rounded number of 135, rather than from the true number of 134.75. An analogous approach was followed with the PM10 values as well, using 63.7 TPH rather than 64.06 TPH. Therefore when recreating this table using the emissions from each individual unit there was a discrepancy in the PM and PM10 values of *Total for Modification* and subsequently for the *Total for Modification after Netting*. The PM and PM10 values of *Total for Modification after Netting* has been corrected to -37.8 TPY and 10.5 TPY, respectively.

Prior to this modification, the exhausts from 5EX1, 5EX2 and 5EX3 shared a baghouse, the 'B' RJ Filter, to control particulates for Stack 5EX. The source requested to separate the exhaust of 5EX2, hot dehulling equipment, from the shared baghouse and install a dedicated baghouse for the hot dehulling equipment and a new stack, 33EX.

This modification does not add any emission units, only the addition of a baghouse. This change involves emission units previously evaluated in two emissions netting permits: CP 001-4673-00005 and an Amendment 001-9930-00005. The total netted emission from these permits will not be changed by this modification. The emissions associated with 5EX2, controlled and release through baghouse EX33, are deducted from the previous 5EX dehulling equipment emissions. This ensures that the reconfiguration of the exhausts does not result in an increase in emissions, the emissions have been redistributed over two different emission points: 5EX and 33EX. Therefore the PSD minor limit remains the same and the overall emission rate of the source is unchanged.

EU ID	Stack ID	PM Limit (lb/hr)	PM10 Limit (lb/hr)
19EL1	19EL	1.36	0.283
1EX1, 1EX2	1EX	0.474	0.474
4EX1, 4EX2, 4EX3	4EX	1.441	1.441
5EX1, 5EX3	5EX	1.505	1.505
5EX2	33EX	0.171	0.171
24EX1	24EX1	6.79	6.79
24EX2	24EX2	6.79	6.79
24EX3	24EX3A, 24EX3B	2.18, each	2.18, each
23EX1	23EX	0.021	0.021
6EX1	6EX	2.218	2.218

This modification to an existing major stationary source is not major because the emissions increase is less than the PSD significant levels. Therefore, pursuant to 326 IAC 2-2, the PSD requirements do not apply.

Federal Rule Applicability Determination

The following federal rules are applicable to the source:

NSPS:

- (a) There are no New Source Performance Standards (NSPS)(326 IAC 12 and 40 CFR Part 60) applicable to this proposed modification.

NESHAP:

- (b) There are no National Emission Standards for Hazardous Air Pollutants (NESHAPs) (326 IAC 14, 326 IAC 20 and 40 CFR Part 63) applicable to this proposed modification.

CAM:

- (c) Pursuant to 40 CFR 64.2, Compliance Assurance Monitoring (CAM) is applicable to new or modified emission units that involve a pollutant-specific emission unit and meet the following criteria:

- (1) has a potential to emit before controls equal to or greater than the Part 70 major source threshold for the pollutant involved;
- (2) is subject to an emission limitation or standard for that pollutant; and
- (3) uses a control device, as defined in 40 CFR 64.1, to comply with that emission limitation or standard.

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

CAM Applicability Analysis							
Emission Unit	Control Device Used	Emission Limitation (Y/N)	Uncontrolled PTE (ton/yr)	Controlled PTE (ton/yr)	Part 70 Major Source Threshold (ton/yr)	CAM Applicable (Y/N)	Large Unit (Y/N)
Hot Dehulling Equipment - 5EX2	Baghouse	Y	>100	0.75	100	Y	N
Silo Bin Vents - 3EL1	None	Y	98.55	98.55	100	N	N
Silo direct loadout - 4EL1	None	Y	29.57	29.57	100	N	N
Conveyor Belt to Storage Bowls - 16EX1	None	Y	24.85	24.85	100	N	N
Large Storage Bowl - 16EX2	None	Y	24.85	24.85	100	N	N
Small Storage Bowl - 16EX3	None	Y	24.85	24.85	100	N	N
Whole bean bins - 18EX1	None	Y	41.76	41.76	100	N	N

Based on this evaluation, the requirements of 40 CFR Part 64, CAM are applicable to 5EX2 for particulate matter. A CAM plan was submitted as part of the Renewal application for this unit. The CAM plan requirements are not changing due to the new baghouse.

The requirements of 40 CFR Part 64, CAM are not applicable to emission units 3EL1, 4EL1, 16EX1, 16EX2, 16EX3 and 18EX1 because they do not have a potential to emit equal to or greater than the Part 70 major source threshold nor do they use control devices to comply with an emission limitation or standard. These units have been removed from the applicable CAM requirements in the permit.

State Rule Applicability Determination

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

326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes)

Pursuant to 326 IAC 6-3-2, the particulate matter (PM) from the hot dehulling equipment, 5EX2, shall not exceed 55.87 pounds per hour when operating at a process weight rate of 156.3 tons per hour. The pound per hour limitation was calculated with the following equation:

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

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

The baghouse, 33EX, shall be in operation at all times the hot dehulling equipment is in operation, in order to comply with this limit.

Summary of Process Weight Rate Limits			
Process / Emission Unit	P (ton/hr)	E (lb/hr)	Equation Used
Hot Dehulling Equipment - 5EX2	156.3	55.87	(a)

Compliance Determination and Monitoring Requirements

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

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

Compliance Determination Requirements

The Compliance Determination Requirements applicable to the hot dehulling equipment (5EX2) and its corresponding baghouse (33EX) are as follows:

- (a) **Particulate Matter Control**
The baghouse, 33EX, for particulate emissions control shall be in operation and control particulate emission whenever the hot dehulling equipment, 5EX2, is in operation.

These requirements are required to ensure compliance with 326 IAC 6-3 (Particulate Emission Limitations for Manufacturing Processes) and to render 326 IAC 2-2 (PSD) not applicable.

Compliance Monitoring Requirements

The hot dehulling equipment has applicable compliance monitoring conditions as specified below:

- (a) **Visible Emissions Notations**
The Permittee shall perform daily visible emission notations of the baghouse, 33EX, exhaust.
- (b) **Baghouse Parametric Monitoring**
The Permittee shall record the pressure drop across the baghouse, 33EX, at least once per day when the hot dehulling equipment, 5EX2, is in operation.
- (c) **Broken or Failed Bag Detection**
The Permittee shall maintain the baghouse and replace broken or failed bags as needed.

These monitoring conditions are necessary to verify the baghouse is operating properly and therefore ensures the hot dehulling equipment is in compliance with 326 IAC 6-3 (*Particulate Emission Limitations for Manufacturing Processes*) and in compliance with 326 IAC 2-2 (PSD).

Since this emission unit is subject to CAM, the above compliance monitoring is required pursuant to 40 CFR 64 and part of the source's CAM plan.

The requirement to perform visible emissions on the production stack exhausts/vents of 3EL, 16EX, and 18EX has been removed since these units do not have control devices and do not need any control devices to be in compliance with 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes). Emission calculations have been included in Appendix A.

Proposed Changes

The changes listed below have been made to Part 70 Operating Permit No. T001-23640-00005. Deleted language appears as ~~strikethroughs~~ and new language appears in **bold**:

Modification No. 1

The following changes have been made to the emission unit descriptions:

- (a) *The source is no longer claiming confidentiality on process weights or maximum throughputs for any emission units. The maximum capacities for various emission units will be added to unit descriptions.*
- (b) *The source is changing the exhaust configuration of the Dehulling and Hot Dehulling equipment. Emission units 5EX1, 5EX2 and 5EX3 will no longer share a baghouse and exhaust stack 5EX. The hot dehulling equipment, 5EX2, will have a dedicated baghouse and stack, 33EX.*

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) Truck Dump #2, identified as 1EL1, constructed in 1980, **with a maximum capacity of 600 tons per hour**, using a baghouse for particulate matter (PM) control, and exhausting to stack 1EL. This is an affected facility under the New Source Performance Standard for Grain Elevators 40 CFR 60.300, Subpart DD.
- (b) The following grain elevator East Workhouse components, together identified as 2EL1, **with a maximum throughput of 270 tons per hour, each**, using a baghouse and oil suppressant for PM control, and exhausting to stack 2EL, consisting of:
* * *
- (e) The following grain elevator components, together identified as 5EL1, **with a maximum throughput of 900 tons per hour, each**, using a baghouse and oil suppressant for PM control, and exhausting to stack 5EL, consisting of:
* * *
- (f) One (1) north west receiving house enclosed conveyor identified as 8EL1, constructed prior to 1977, **with a maximum throughput of 360 tons per hour**, using oil suppressant for PM control, with no aspiration.
- (g) The following grain elevator components together identified as 10EL1, **with a maximum throughput of 720 tons per hour, each**, using a baghouse and oil suppressant for PM control, and exhausting to stack 10EL, consisting of:
* * *
- (h) The following grain elevator components together identified as 14EL1, **with a maximum throughput of 600 tons per hour, each**, using a baghouse and oil suppressant for PM control, and exhausting to stack 14EL, consisting of:
* * *

- (i) One (1) natural gas fired grain dryer #2, identified as 19EL1, constructed in 1995, **with a maximum capacity of 60 tons per hour and a maximum heat input capacity of 7 MMBtu/hr**, using self-cleaning screens for PM control, and exhausting to vent 19EL. This is an affected facility under the New Source Performance Standard for Grain Elevators 40 CFR 60.300, Subpart DD.
- (j) One (1) truck dump #7, identified as 20EL1, constructed in 1997, **with a maximum throughput of 450 tons per hour**, consisting of one (1) weigh scale truck unloading pit, and two (2) enclosed bucket elevator legs, using two (2) baghouses in parallel for PM control, and exhausting to stack 20EL. This is an affected facility under the New Source Performance Standard for Grain Elevators 40 CFR 60.300, Subpart DD.
- (k) Silo bin vents, identified as 3EL1, constructed prior to 1977, **with a maximum throughput of 900 tons per hour**, using soybean oil as a dust suppressant, and exhausting to vent 3EL.
- (l) Silo direct loadout, identified as 4EL1, constructed prior to 1977, **with a maximum throughput of 270 tons per hour**, using soybean oil as a dust suppressant.
- (m) One (1) south tripper buggy, one (1) south galley belt loader, and one (1) north south belt, identified as 6EL1, all constructed prior to 1977, **with a maximum throughput of 900 tons per hour, each**, using a baghouse and oil suppressant for PM control, and exhausting to stack 6EL.
- (n) One (1) south west receiving house enclosed conveyor, identified as 7EL1, constructed prior to 1977, **with a maximum throughput of 360 tons per hour**, using oil suppressant for PM control with no aspiration.
- (o) One (1) truck dump #3, identified as 9EL1, constructed in 1976, **with a maximum throughput of 900 tons per hour**, using a baghouse for PM control, and exhausting to stack 9EL.
- (p) One (1) truck dump #5, identified as 12EL1, constructed prior to 1977, **with a maximum throughput of 600 tons per hour**, using a baghouse for PM control, and exhausting to stack 12EL.
- (q) One (1) jumbo silo east tunnel belt, one (1) jumbo silo west tunnel belt, and one (1) jumbo silo crossover tunnel belt, identified as 13EL1, all constructed prior to 1977, **with a maximum throughput of 360 tons per hour, each**, using a baghouse and oil suppressant for PM control, and exhausting to stack 13EL.
- (r) One (1) truck dump #6, identified as 15EL1, constructed prior to 1977, **with a maximum throughput of 360 tons per hour**, using a baghouse for PM control, and exhausting to stack 15EL.
- (s) One (1) natural gas fired grain dryer #1, identified as 16EL1, constructed in 1986, **with a maximum capacity of 75 tons per hour and a maximum heat input capacity of 7 MMBtu/hr**, using self-cleaning screens for PM control, and exhausting to stack 16EL. This is an affected facility under the New Source Performance Standard for Grain Elevators 40 CFR 60.300, Subpart DD.
- (t) Two (2) natural gas fired grain dryers, #4 and #5, identified as 17EL1, constructed in the 1960's, **with a maximum capacity of 150 tons per hour and a maximum heat input capacity of 14 MMBtu/hr, total**, using self-cleaning screens for PM control, and exhausting to vent 17EL.

- (u) One (1) Lec. Dept. filter aid unit, identified as 204RO1, constructed in 1980, **with a maximum throughput of 2.5 tons per hour**, using a baghouse for PM control, and exhausting to stack 204RO.
- (v) Daily use bins, identified as 102EO1, constructed in 1976, **with a maximum throughput of 2.5 tons per hour, each**, using a baghouse for PM control, and exhausting to stack 102EO.
- (w) Filter aid silos, identified as 103EO1, constructed in 1976, **with a maximum throughput of 16 tons per hour, each**, using a baghouse for PM control, and exhausting to stack 103EO.
* * *
- (y) Salt conveying, identified as 4SP1, constructed in 1981, **with a maximum throughput of 21 tons per hour**, using a baghouse for PM control, and exhausting to stack 4SP.
- (z) Six (6) flaking rolls, #1, #2, #3, #4, #5, and #6, constructed in 1996, and B flake n/s drag, constructed in 1991, all identified together as 1EX1, **with a maximum throughput of 93.1 tons per hour, total**, using fabric filters for PM control, and exhausting to stack 1EX.
- (aa) One (1) flaking roll #14 and flaking roll discharge #14, identified as 1EX2, constructed in 1991, **with a maximum throughput of 93.1 tons per hour, each**, using fabric filters for PM control, and exhausting to stack 1EX.
- (bb) The following soybean processing equipment, together identified as 3EX1, **with a maximum throughput of 48.8 tons per hour, each**, sharing a cyclone with 3EX2 for PM control, and exhausting to stack 3EX, consisting of:
* * *
- (cc) One (1) north run around drag, identified as 3EX2, constructed in 1984, **with a maximum throughput of 48.8 tons per hour**, sharing a cyclone with 3EX1, and exhausting to stack 3EX.
- (dd) The following soybean processing equipment, together identified as 4EX1, **with a maximum throughput of 156.3 tons per hour, each**, sharing a baghouse with 4EX2 and 4EX3 for PM control, and exhausting to stack 4EX, consisting of:
* * *
- (ee) A run around rework screw, identified as 4EX2, constructed in 1991, **with a maximum throughput of 156.3 tons per hour**, sharing a baghouse with 4EX1 and 4EX3 for PM control, and exhausting to stack 4EX.
- (ff) The following soybean processing equipment, together identified as 4EX3, **with a maximum throughput of 156.3 tons per hour, each**, sharing a baghouse with 4EX1 and 4EX2 for PM control, and exhausting to stack 4EX, consisting of:
* * *
- (gg) Dehulling equipment, identified as 5EX1, constructed in 1997, **with a maximum throughput of 156.3 tons per hour**, sharing a baghouse with ~~5EX2 and~~ 5EX3 for PM control, and exhausting to stack 5EX.
- (hh) Hot dehulling equipment, identified as 5EX2, constructed in 1991, **with a maximum throughput of 156.3 tons per hour**, ~~sharing using~~ a baghouse ~~with 5EX1 and 5EX3~~ for PM control, and exhausting to stack ~~5-~~33EX.
- (ii) Screening aspiration, identified as 5EX3, constructed in 1988, **with a maximum throughput of 156.3 tons per hour**, sharing a baghouse with 5EX1 ~~and 5EX2~~ for PM control, and exhausting to stack 5EX.

- (jj) Truck meal loadout and rail meal loadout, identified as 6EX1, constructed in 1982, replaced in 1999, **with a maximum throughput of 150 tons per hour**, with truck meal loadout using a baghouse for PM control, and exhausting to stack 6EX, and rail meal loadout using a choke loader for intrinsic PM control of fugitive emissions.
* * *
- (ll) One (1) leg No. 2, one (1) mixing conveyor, and one (1) bin drag, together identified as 9EX1, all constructed in 1983, **with a maximum throughput of 125 tons per hour, each**, using a baghouse for PM control, and exhausting to stack 9EX.
- (mm) The following soybean processing equipment, together identified as 10EX1, **with a maximum throughput of 333 tons per hour, each**, using a baghouse for PM control, and exhausting to stack 10EX, consisting of:
* * *
- (nn) One (1) kaolin bin, identified as 11EX1, constructed in the 1950's, **with a maximum throughput of 15 tons per hour**, using a baghouse for PM control, and exhausting to stack 11EX.
- (oo) One (1) meal loadout bin, identified as 12EX1, constructed in 1982, **with a maximum throughput of 540 tons per hour**, using a baghouse for PM control, and exhausting to stack 12EX.
- (pp) One (1) belt to storage bowls, one (1) large storage bowl, and one (1) small storage bowl, identified as 16EX1, 16EX2, and 16EX3, respectively, all constructed in 1982, **with a maximum capacity of 93 tons per hour, each**, with no PM control, and exhausting to stack 16EX.
- (qq) Whole bean bins, identified as 18EX1, constructed in the 1940's, **with a maximum throughput of 156.3 tons per hour, total**, with no PM control, and exhausting to stack 18EX.
- (rr) Meal storage silos with bin vents, identified as 23EX1, constructed in the 1950's, **with a maximum throughput of 125 tons per hour, total, and using one (1) bin vent filter as control**, exhausting to stack 23EX.
* * *
- (uu) One (1) B & W coal fired boiler, identified as 1SP1, constructed in 1950, **with a maximum heat input capacity of 108 MMBtu/hr**, using multiple cyclones and a baghouse for control of particulate and HAPs, and exhausting to stack 1SP.
- (vv) One (1) Keeler coal fired boiler, identified as 2SP1, constructed in 1963, **with a maximum heat input capacity of 52.75 MMBtu/hr**, using multiple cyclones and a baghouse for control of particulate and HAPs, and exhausting to stack 1SP.
- (ww) One (1) Murray natural gas fired, vegetable oil-fired, used oil-fired, and hazardous chemical fired boiler, identified as 3SP1, constructed in 1968, **with a maximum heat input capacity of 110.2 MMBtu/hr**, and exhausting to stack 1SP.
- (xx) One (1) hexane extraction system, identified collectively as 24EX, modified prior to 1980, with hexane emissions from the vent system controlled by a mineral oil absorber, and exhausting to stack 24EXA. For reporting purposes, all hexane emissions are collectively accounted for in the total hexane losses named 24EX.

- (1) One (1) 'A' unit, identified as 24EX1, consisting of 'A' pre-DT, constructed in 1996, 'A' DT, constructed in 1980, and the 'A' Meal Dryer, constructed in 1980, **with a maximum capacity of 109.4 tons per hour, each.** 'A' pre-DT is on top of and feeds the 'A' DT, which is on top of and feeds the 'A' Meal Dryer. The 'A' pre-DT and the 'A' DT exhaust to the hexane solvent reclaim system. The 'A' Meal Dryer uses a cyclone for PM control, and exhausts to stack 24EX1. Hexane emissions are reported in 24EX.
- (2) One (1) 'B' unit, identified as 24EX2, consisting of 'B' pre-DT, constructed in 1996, 'B' DT, constructed in 1980, and the 'B' Meal Dryer, constructed in 1980, **with a maximum capacity of 109.4 tons per hour, each.** 'B' pre-DT is on top of and feeds the 'B' DT which is on top of and feeds the 'B' Meal Dryer. The 'B' pre-DT and the 'B' DT exhaust to the hexane solvent reclaim system. The 'B' Meal Dryer uses a cyclone for PM control, and exhausts to stack 24EX2. Hexane emissions are reported in 24EX.
- (3) One meal cooler, identified as 24EX3, constructed in 1996, **with a maximum capacity of 110 tons per hour**, using two (2) cyclones for PM control, exhausting to stacks 24EX3A and 24EX3B, respectively, with hexane emissions reported in 24EX.

* * *

- (yy) The following soybean processing equipment, identified as 17EX2, modified in 1987, **with a maximum throughput of 156.3 tons per hour, each**, using a cyclone for PM control, and exhausting to stack 17EX, consisting of:

* * *

- (zz) Two (2) conditioners identified as 31EX1 and 31EX2 constructed in 2002, **with a maximum capacity of 156.3 tons per hour for each conditioner**, and exhausting internally.

- (aaa) One (1) enclosed pneumatic ash conveying and loading operation, constructed in the 1950's, identified as emission unit 8SP1, **with a maximum throughput of 13.8 tons per hour**, using a baghouse for emission control, and exhausting to stack 1SP. The ash loading operation uses water spray for fugitive emission mitigation.

* * *

- (eee) One (1) loadout bin, identified as 29EX1, constructed in 1994, **with a maximum throughput of 10 tons per hour**, using a bin vent filter for PM control, and exhausting to stack 29EX.

* * *

SECTION D.1 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description: Grain Handling and Grain Drying Facilities

- (a) Truck Dump #2, identified as 1EL1, constructed in 1980, **with a maximum capacity of 600 tons per hour**, using a baghouse for particulate matter (PM) control, and exhausting to stack 1EL. This is an affected facility under the New Source Performance Standard for Grain Elevators 40 CFR 60.300, Subpart DD.
- (b) The following grain elevator East Workhouse components, together identified as 2EL1, **with a maximum throughput of 270 tons per hour, each**, using a baghouse and oil suppressant for PM control, and exhausting to stack 2EL, consisting of:
 - (1) One (1) dryer megatex enclosed conveyor, constructed in 1979;
 - (2) One (1) dryer rotex, constructed prior to 1977;

- (3) One (1) #1 scalperator, constructed prior to 1977;
 - (4) One (1) #2 scalperator, constructed prior to 1977;
 - (5) One (1) #3 scalperator, constructed prior to 1977;
 - (6) One (1) ext. screening bin, constructed prior to 1977;
 - (7) One (1) screening bin, constructed prior to 1977;
 - (8) One (1) solvent screening leg, constructed prior to 1977;
 - (9) One (1) #1 leg, constructed prior to 1977;
 - (10) One (1) #2 leg, constructed prior to 1977;
 - (11) One (1) #3 leg, constructed prior to 1977;
 - (12) One (1) west to east Hi-Roller, constructed prior to 1977;
 - (13) One (1) west to east belt loader, constructed prior to 1977;
 - (14) One (1) dry bean leg, constructed prior to 1977;
 - (15) One (1) #1 dryer Hi-Roller, constructed prior to 1977;
 - (16) One (1) weaver's belt, constructed prior to 1977; and
 - (17) One (1) 102 belt, constructed prior to 1977.
- (c) One (1) hammermill, permitted in 2010 for construction, identified as 2EL2, with a maximum capacity of 5.60 tons per hour, using a baghouse as control (Unit ID 2EL2), and exhausting to stack 2EL2.
- (d) One (1) pneumatic conveying system, permitted in 2010 for construction, identified as 2EL3, with a maximum capacity of 5.60 tons per hour, using a baghouse for control (Unit ID 22EX2) as control, and exhausting to stack 22EX2.
- (e) The following grain elevator components, together identified as 5EL1, **with a maximum throughput of 900 tons per hour, each**, using a baghouse and oil suppressant for PM control, and exhausting to stack 5EL, consisting of:
- (1) One (1) north tripper buggy, constructed prior to 1977;
 - (2) One (1) north galley belt loader, constructed prior to 1977;
 - (3) One (1) east west belt, constructed prior to 1977; and
 - (4) One (1) bin 102, constructed prior to 1977.
- (f) One (1) north west receiving house enclosed conveyor identified as 8EL1, constructed prior to 1977, **with a maximum throughput of 360 tons per hour**, using oil suppressant for PM control, with no aspiration.
- (g) The following grain elevator components together identified as 10EL1, **with a maximum throughput of 720 tons per hour, each**, using a baghouse and oil suppressant for PM control, and exhausting to stack 10EL, consisting of:

- (1) One (1) rail loadout, constructed in 1984. This is an affected facility under the New Source Performance Standard for Grain Elevators 40 CFR 60.300, Subpart DD;
 - (2) One (1) rail receiving, constructed in 1960;
 - (3) One (1) north leg, constructed prior to 1960; and
 - (4) One (1) south leg, constructed prior to 1960.
- (h) The following grain elevator components together identified as 14EL1, **with a maximum throughput of 600 tons per hour, each**, using a baghouse and oil suppressant for PM control, and exhausting to stack 14EL, consisting of:
- (1) One (1) jumbo silo east galley belt, constructed prior to 1977;
 - (2) One (1) jumbo silo west galley belt, constructed prior to 1977; and
 - (3) One (1) jumbo silo crossover galley belt, constructed prior to 1977.
- (i) One (1) natural gas fired grain dryer #2, identified as 19EL1, constructed in 1995, **with a maximum capacity of 60 tons per hour and a maximum heat input capacity of 7 MMBtu/hr**, using self-cleaning screens for PM control, and exhausting to vent 19EL. This is an affected facility under the New Source Performance Standard for Grain Elevators 40 CFR 60.300, Subpart DD.
- (j) One (1) truck dump #7, identified as 20EL1, constructed in 1997, **with a maximum throughput of 450 tons per hour**, consisting of one (1) weigh scale truck unloading pit, and two (2) enclosed bucket elevator legs, using two (2) baghouses in parallel for PM control, and exhausting to stack 20EL. This is an affected facility under the New Source Performance Standard for Grain Elevators 40 CFR 60.300, Subpart DD.
- (k) One (1) natural gas fired grain dryer #1, identified as 16EL1, constructed in 1986, **with a maximum capacity of 75 tons per hour and a maximum heat input capacity of 7 MMBtu/hr**, using self-cleaning screens for PM control, and exhausting to stack 16EL. This is an affected facility under the New Source Performance Standard for Grain Elevators 40 CFR 60.300, Subpart DD.

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

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SECTION D.2 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description: Grain Handling and Soybean Meal Production Facilities

- (a) Silo bin vents, identified as 3EL1, constructed prior to 1977, **with a maximum throughput of 900 tons per hour, total**, using soybean oil as a dust suppressant, and exhausting to vent 3EL.
- (b) Silo direct loadout, identified as 4EL1, constructed prior to 1977, **with a maximum throughput of 270 tons per hour**, using soybean oil as a dust suppressant.
- (c) One (1) south tripper buggy, one (1) south galley belt loader, and one (1) north south belt, identified as 6EL1, all constructed prior to 1977, **with a maximum throughput of 900 tons per hour, each**, using a baghouse and oil suppressant for PM control, and exhausting to stack 6EL.

- (d) One (1) south west receiving house enclosed conveyor, identified as 7EL1, constructed prior to 1977, **with a maximum throughput of 360 tons per hour**, using oil suppressant for PM control with no aspiration.
- (e) One (1) truck dump #3, identified as 9EL1, constructed in 1976, **with a maximum throughput of 900 tons per hour**, using a baghouse for PM control, and exhausting to stack 9EL.
- (f) One (1) truck dump #5, identified as 12EL1, constructed prior to 1977, **with a maximum throughput of 600 tons per hour**, using a baghouse for PM control, and exhausting to stack 12EL.
- (g) One (1) jumbo silo east tunnel belt, one (1) jumbo silo west tunnel belt, and one (1) jumbo silo crossover tunnel belt, identified as 13EL1, all constructed prior to 1977, **with a maximum throughput of 360 tons per hour, each**, using a baghouse and oil suppressant for PM control, and exhausting to stack 13EL.
- (h) One (1) truck dump #6, identified as 15EL1, constructed prior to 1977, **with a maximum throughput of 360 tons per hour**, using a baghouse for PM control, and exhausting to stack 15EL.
- (i) Two (2) natural gas fired grain dryers, #4 and #5, identified as 17EL1, constructed in the 1960's, **with a maximum capacity of 150 tons per hour and a maximum heat input capacity of 14 MMBtu/hr, total**, using self-cleaning screens for PM control, and exhausting to vent 17EL.
- (j) One (1) Lec. Dept. filter aid unit, identified as 204RO1, constructed in 1980, **with a maximum throughput of 2.5 tons per hour**, using a baghouse for PM control, and exhausting to stack 204RO.
- (k) Daily use bins, identified as 102EO1, constructed in 1976, **with a maximum throughput of 2.5 tons per hour, each**, using a baghouse for PM control, and exhausting to stack 102EO.
- (l) Filter aid silos, identified as 103EO1, constructed in 1976, **with a maximum throughput of 16 tons per hour, each**, using a baghouse for PM control, and exhausting to stack 103EO.
- (m) Salt conveying, identified as 4SP1, constructed in 1981, **with a maximum throughput of 21 tons per hour**, using a baghouse for PM control, and exhausting to stack 4SP.
- (n) Six (6) flaking rolls, #1, #2, #3, #4, #5, and #6, constructed in 1996, and B flake n/s drag, constructed in 1991, all identified together as 1EX1, **with a maximum throughput of 93.1 tons per hour, total**, using fabric filters for PM control, and exhausting to stack 1EX.
- (o) One (1) flaking roll #14 and flaking roll discharge #14, identified as 1EX2, constructed in 1991, **with a maximum throughput of 93.1 tons per hour, each**, using fabric filters for PM control, and exhausting to stack 1EX.
- (p) The following soybean processing equipment, together identified as 3EX1, **with a maximum throughput of 48.8 tons per hour, each**, sharing a cyclone with 3EX2 for PM control, and exhausting to stack 3EX, consisting of:
 - (1) Four (4) flaking rolls, #9, #10, #11, and #12, constructed in 1978;
 - (2) One (1) flaking roll #13, constructed in 1985;
 - (3) One (1) 'A' flake n/s drag, constructed in 1993; and
 - (4) One (1) 'A' flake e/w drag, constructed in 1993.

- (q) One (1) north run around drag, identified as 3EX2, constructed in 1984, **with a maximum throughput of 48.8 tons per hour**, sharing a cyclone with 3EX1, and exhausting to stack 3EX.
- (r) The following soybean processing equipment, together identified as 4EX1, **with a maximum throughput of 156.3 tons per hour, each**, sharing a baghouse with 4EX2 and 4EX3 for PM control, and exhausting to stack 4EX, consisting of:
 - (1) One (1) whole bean scale, constructed in 1989;
 - (2) One (1) 'A' whole bean leg, constructed in 1997;
 - (3) One (1) 'A' surge bin, constructed prior to 1979;
 - (4) One (1) whole bean drag, constructed in 1981; and
 - (5) One (1) 'B' surge bin, constructed prior to 1979.
- (s) A run around rework screw, identified as 4EX2, constructed in 1991, **with a maximum throughput of 156.3 tons per hour**, sharing a baghouse with 4EX1 and 4EX3 for PM control, and exhausting to stack 4EX.
- (t) The following soybean processing equipment, together identified as 4EX3, **with a maximum throughput of 156.3 tons per hour, each**, sharing a baghouse with 4EX1 and 4EX2 for PM control, and exhausting to stack 4EX, consisting of:
 - (1) One (1) hull refining screw conveyor, constructed in 1991;
 - (2) One (1) hull refining process, constructed in 1991; and
 - (3) One (1) hull grinding process, constructed in 1987.
- (u) Dehulling equipment, identified as 5EX1, constructed in 1997, **with a maximum throughput of 156.3 tons per hour**, sharing a baghouse with ~~5EX2 and~~ 5EX3 for PM control, and exhausting to stack 5EX.
- (v) Hot dehulling equipment, identified as 5EX2, constructed in 1991, **with a maximum throughput of 156.3 tons per hour**, ~~sharing~~ using a baghouse with ~~5EX1 and~~ 5EX3 for PM control, and exhausting to stack ~~5-33~~EX.
- (w) Screening aspiration, identified as 5EX3, constructed in 1988, **with a maximum throughput of 156.3 tons per hour**, sharing a baghouse with 5EX1 and ~~5EX2~~ for PM control, and exhausting to stack 5EX.
- (x) Truck meal loadout and rail meal loadout, identified as 6EX1, constructed in 1982, replaced in 1999, **with a maximum throughput of 150 tons per hour**, with truck meal loadout using a baghouse for PM control, and exhausting to stack 6EX, and rail meal loadout using a choke loader for intrinsic PM control of fugitive emissions.
- (y) One (1) soybean meal sizing and grinding operation, collectively identified as 7EX, approved in 2010 for construction, using a baghouse for PM control, and exhausting to stack 7EX, consisting of:
 - (1) One (1) meal screener, identified as 7EX1, with a maximum capacity of 176 tons per hour;
 - (2) Four (4) meal grinders, identified as 7EX2 through 7EX5, each with a maximum capacity of 45 tons per hour; and

- (3) Associated conveyors.
- (z) One (1) leg No. 2, one (1) mixing conveyor, and one (1) bin drag, together identified as 9EX1, all constructed in 1983, **with a maximum throughput of 125 tons per hour, each**, using a baghouse for PM control, and exhausting to stack 9EX.
- (aa) The following soybean processing equipment, together identified as 10EX1, **with a maximum throughput of 333 tons per hour, each**, using a baghouse for PM control, and exhausting to stack 10EX, consisting of:
- (1) One (1) leg No. 3, constructed in the 1950's;
- (2) One (1) tunnel drag, constructed in 1983; and
- (3) One (1) meal loadout drag, constructed in 1982.
- (bb) One (1) kaolin bin, identified as 11EX1, constructed in the 1950's, **with a maximum throughput of 15 tons per hour**, using a baghouse for PM control, and exhausting to stack 11EX.
- (cc) One (1) meal loadout bin, identified as 12EX1, constructed in 1982, **with a maximum throughput of 540 tons per hour**, using a baghouse for PM control, and exhausting to stack 12EX.
- (dd) One (1) belt to storage bowls, one (1) large storage bowl, and one (1) small storage bowl, identified as 16EX1, 16EX2, and 16EX3, respectively, all constructed in 1982, **with a maximum capacity of 93 tons per hour, each**, with no PM control, and exhausting to stack 16EX.
- (ee) Whole bean bins, identified as 18EX1, constructed in the 1940's, **with a maximum throughput of 156.3 tons per hour, total**, with no PM control, and exhausting to stack 18EX.
- (ff) Meal storage silos with bin vents, identified as 23EX1, constructed in the 1950's, **with a maximum throughput of 125 tons per hour, total, and using one (1) bin vent filter as control**, exhausting to stack 23EX.
- (gg) One (1) hexane extraction system, identified collectively as 24EX, modified prior to 1980, with hexane emissions from the vent system controlled by a mineral oil absorber, and exhausting to stack 24EXA. For reporting purposes, all hexane emissions are collectively accounted for in the total hexane losses named 24EX.
- (1) One (1) 'A' unit, identified as 24 EX1, consisting of 'A' pre-DT, constructed in 1996, 'A' DT, constructed in 1980, and the 'A' Meal Dryer, constructed in 1980 **with a maximum capacity of 109.4 tons per hour, each**. 'A' pre-DT is on top of and feeds the 'A' DT, which is on top of and feeds the 'A' Meal Dryer. The 'A' pre-DT and the 'A' DT exhaust to the hexane solvent reclaim system. The 'A' Meal Dryer uses a cyclone for PM control, and exhausts to stack 24EX1. Hexane emissions are reported in 24EX.
- (2) One (1) 'B' unit, identified as 24EX2, consisting of 'B' pre-DT, constructed in 1996, 'B' DT, constructed in 1980, and the 'B' Meal Dryer, constructed in 1980 **with a maximum capacity of 109.4 tons per hour, each**. 'B' pre-DT is on top of and feeds the 'B' DT which is on top of and feeds the 'B' Meal Dryer. The 'B' pre-DT and the 'B' DT exhaust to the hexane solvent reclaim system. The 'B' Meal Dryer uses a cyclone for PM control, and exhausts to stack 24EX2. Hexane emissions are reported in 24EX.
- (3) One meal cooler, identified as 24EX3, constructed in 1996, **with a maximum capacity of 110 tons per hour**, using two (2) cyclones for PM control, exhausting to stacks 24EX3A and 24EX3B, respectively, with hexane emissions reported in 24EX.

- (hh) The following soybean processing equipment, identified as 17EX2, modified in 1987, **with a maximum throughput of 156.3 tons per hour, each**, using a cyclone for PM control, and exhausting to stack 17EX, consisting of:
- (1) One (1) flaking roll #8, constructed in 1981; and
 - (2) One (1) 'B' flake e/w drag, constructed in 1980.
- (ii) Two (2) conditioners identified as 31EX1 and 31EX2 constructed in 2002, **with a maximum capacity of 156.3 tons per hour for each conditioner**, and exhausting internally.
- (jj) One (1) enclosed pneumatic ash conveying and loading operation, constructed in the 1950's, identified as emission unit 8SP1, **with a maximum throughput of 13.8 tons per hour**, using a baghouse for emission control, and exhausting to stack 1SP. The ash loading operation uses water spray for fugitive emission mitigation.

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

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SECTION D.3 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description: Boilers and Heaters

- (a) One (1) natural gas fired hydrogen generator furnace, identified as 107EO1, constructed in 1992, with a maximum heat input capacity of 25.2 MMBtu/hr, and exhausting to stack 107EO.
- (b) One (1) natural gas fired steam generator, identified as 110EO1, constructed in 2002, with a maximum heat input capacity of 14 MMBtu/hr, and exhausting to stack 110EO. This is an affected facility under the New Source Performance Standards for Small Industrial - Commercial - Institutional Steam Generating Units 40 CFR 60, Subpart Dc.
- (c) One (1) natural gas fired steam generator #3, identified as 108EO1, constructed in 1994, with a maximum heat input capacity of 14 MMBtu/hr, and exhausting to stack 108EO. This is an affected facility under the New Source Performance Standards for Small Industrial - Commercial - Institutional Steam Generating Units 40 CFR 60, Subpart Dc.
- (d) One (1) B & W coal fired boiler, identified as 1SP1, constructed in 1950, **with a maximum heat input capacity of 108 MMBtu/hr**, using multiple cyclones and a baghouse for control of particulate and HAPs, and exhausting to stack 1SP.
- (e) One (1) Keeler coal fired boiler, identified as 2SP1, constructed in 1963, **with a maximum heat input capacity of 52.75 MMBtu/hr**, using multiple cyclones and a baghouse for control of particulate and HAPs, and exhausting to stack 1SP.
- (f) One (1) Murray natural gas fired, vegetable oil-fired, used oil-fired, and hazardous chemical fired boiler, identified as 3SP1, constructed in 1968, **with a maximum heat input capacity of 110.2 MMBtu/hr**, and exhausting to stack 1SP.

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

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SECTION D.4 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description: Hexane Extraction System

- (a) One (1) hexane extraction system, identified collectively as 24EX, modified prior to 1980, with hexane emissions from the vent system controlled by a mineral oil absorber, and exhausting to stack 24EXA. For reporting purposes, all hexane emissions are collectively accounted for in the total hexane losses named 24EX.
- (1) One (1) 'A' unit, identified as 24 EX1, consisting of 'A' pre-DT, constructed in 1996, 'A' DT, constructed in 1980, and the 'A' Meal Dryer, constructed in 1980 **with a maximum capacity of 109.4 tons per hour, each.** 'A' pre-DT is on top of and feeds the 'A' DT, which is on top of and feeds the 'A' Meal Dryer. The 'A' pre-DT and the 'A' DT exhaust to the hexane solvent reclaim system. The 'A' Meal Dryer uses a cyclone for PM control, and exhausts to stack 24EX1. Hexane emissions are reported in 24EX.
 - (2) One (1) 'B' unit, identified as 24EX2, consisting of 'B' pre-DT, constructed in 1996, 'B' DT, constructed in 1980, and the 'B' Meal Dryer, constructed in 1980, **with a maximum capacity of 109.4 tons per hour, each.** 'B' pre-DT is on top of and feeds the 'B' DT which is on top of and feeds the 'B' Meal Dryer. The 'B' pre-DT and the 'B' DT exhaust to the hexane solvent reclaim system. The 'B' Meal Dryer uses a cyclone for PM control, and exhausts to stack 24EX2. Hexane emissions are reported in 24EX.
 - (3) One meal cooler, identified as 24EX3, constructed in 1996, **with a maximum capacity of 110 tons per hour**, using two (2) cyclones for PM control, exhausting to stacks 24EX3A and 24EX3B, respectively, with hexane emissions reported in 24EX.
 - (4) Two (2) hexane storage tanks, identified as 24EX4A and 24EX4B, constructed in 1995 and 2005, respectively, with emissions vented to the mineral oil absorber inlet, with hexane emissions reported in 24EX.
 - (5) One (1) wastewater system, identified as 24 EX5, constructed prior to 1980, containing traces of hexane, exhausting to the extraction hot water separation pit, with hexane emissions reported in 24EX.
 - (6) One (1) refined oil hot well, identified as 24 EX6, constructed in 1975, with hexane emissions reported in 24EX.
 - (7) One (1) sampling /hexane unloading port, identified as 24 EX7, with hexane emissions reported in 24EX.
 - (8) Oil tanks containing non-deodorized oil, identified as 24EX8, venting to the atmosphere, with hexane emissions reported at 24EX.

The hexane extraction system (24EX, consisting of 24EX1 through 24EX8) are affected facilities under the National Emission Standards for Hazardous Air Pollutants: Solvent Extraction for Vegetable Oil Production 40 CFR 63, Subpart GGGG.

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

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SECTION D.6 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description: Pelletizer/Pellet Cooler System

- (a) One (1) pelletizer/pellet cooler to produce pellets from the existing dehulling/grinding (millfeed)

system, approved in 2009 for construction, with a maximum rate of 10 tons per hour, identified as 32EX1, using a high efficiency cyclone for emission control and exhausting to stack 32EX.

- (b) One (1) totally enclosed conveyor, approved in 2009 for construction, with a maximum rate of 10 tons per hour, identified as 32EX2.
- (c) One (1) loadout bin, identified as 29EX1, constructed in 1994, **with a maximum capacity of 10 tons per hour**, using a bin vent filter for PM control, and exhausting to stack 29EX.

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

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SECTION E.1 NEW SOURCE PERFORMANCE STANDARDS (NSPS) FOR GRAIN ELEVATORS [40 CFR 60, Subpart DD]

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

- (a) Truck Dump #2, identified as 1EL1, constructed in 1980, **with a maximum capacity of 600 tons per hour**, using a baghouse for particulate matter (PM) control, and exhausting to stack 1EL. This is an affected facility under the New Source Performance Standard for Grain Elevators 40 CFR 60.300, Subpart DD.
- (b) The following grain elevator components together identified as 10EL1, **with a maximum throughput of 720 tons per hour, each**, using a baghouse and oil suppressant for PM control, and exhausting to stack 10EL, consisting of:
 - (1) One (1) rail loadout, constructed in 1984. This is an affected facility under the New Source Performance Standard for Grain Elevators 40 CFR 60.300, Subpart DD;
- (c) One (1) natural gas fired grain dryer #2, identified as 19EL1, constructed in 1995, **with a maximum capacity 60 tons per hour and a maximum heat input capacity of 7 MMBtu/hr**, using self-cleaning screens for PM control, and exhausting to vent 19EL. This is an affected facility under the New Source Performance Standard for Grain Elevators 40 CFR 60.300, Subpart DD.
- (d) One (1) truck dump #7, identified as 20EL1, constructed in 1997, **with a maximum throughput of 450 tons per hour**, consisting of one (1) weigh scale truck unloading pit, and two (2) enclosed bucket elevator legs, using two (2) baghouses in parallel for PM control, and exhausting to stack 20EL. This is an affected facility under the New Source Performance Standard for Grain Elevators 40 CFR 60.300, Subpart DD.
- (e) One (1) natural gas fired grain dryer #1, identified as 16EL1, constructed in 1986, **with a maximum capacity of 75 tons per hour and a maximum heat input capacity of 7 MMBtu/hr**, using self-cleaning screens for PM control, and exhausting to stack 16EL. This is an affected facility under the New Source Performance Standard for Grain Elevators 40 CFR 60.300, Subpart DD.

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

* * *

SECTION E.3 NATIONAL EMISSION STANDARDS FOR HAZARDOUS AIR POLLUTANTS: SOLVENT EXTRACTION FOR VEGETABLE OIL PRODUCTION [40 CFR 63, Subpart GGGG]

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

- (a) One (1) hexane extraction system, identified collectively as 24EX, modified prior to 1980, with hexane emissions from the vent system controlled by a mineral oil absorber, and exhausting to stack 24EXA. For reporting purposes, all hexane emissions are collectively accounted for in the total hexane losses named 24EX.
- (1) One (1) 'A' unit, identified as 24 EX1, consisting of 'A' pre-DT, constructed in 1996, 'A' DT, constructed in 1980, and the 'A' Meal Dryer, constructed in 1980 **with a maximum capacity of 109.4 tons per hour, each.** 'A' pre-DT is on top of and feeds the 'A' DT, which is on top of and feeds the 'A' Meal Dryer. The 'A' pre-DT and the 'A' DT exhaust to the hexane solvent reclaim system. The 'A' Meal Dryer uses a cyclone for PM control, and exhausts to stack 24EX1. Hexane emissions are reported in 24EX.
 - (2) One (1) 'B' unit, identified as 24EX2, consisting of 'B' pre-DT, constructed in 1996, 'B' DT, constructed in 1980, and the 'B' Meal Dryer, constructed in 1980 **with a maximum capacity of 109.4 tons per hour, each.** 'B' pre-DT is on top of and feeds the 'B' DT which is on top of and feeds the 'B' Meal Dryer. The 'B' pre-DT and the 'B' DT exhaust to the hexane solvent reclaim system. The 'B' Meal Dryer uses a cyclone for PM control, and exhausts to stack 24EX2. Hexane emissions are reported in 24EX.
 - (3) One meal cooler, identified as 24EX3, constructed in 1996, **with a maximum capacity of 110 tons per hour,** using two (2) cyclones for PM control, exhausting to stacks 24EX3A and 24EX3B, respectively, with hexane emissions reported in 24EX.
 - (4) Two (2) hexane storage tanks, identified as 24EX4A and 24EX4B, constructed in 1995 and 2005, respectively, with emissions vented to the mineral oil absorber inlet, with hexane emissions reported in 24EX.
 - (5) One (1) wastewater system, identified as 24 EX5, constructed prior to 1980, containing traces of hexane, exhausting to the extraction hot water separation pit, with hexane emissions reported in 24EX.
 - (6) One (1) refined oil hot well, identified as 24 EX6, constructed in 1975, with hexane emissions reported in 24EX.
 - (7) One (1) sampling /hexane unloading port, identified as 24 EX7, with hexane emissions reported in 24EX.
 - (8) Oil tanks containing non-deodorized oil, identified as 24EX8, venting to the atmosphere, with hexane emissions reported at 24EX.

The hexane extraction system (24EX, consisting of 24EX1 through 24EX8) are affected facilities under the National Emission Standards for Hazardous Air Pollutants: Solvent Extraction for Vegetable Oil Production 40 CFR 63, Subpart GGGG.

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

Modification No. 2

Conditions listing Particulate Matter emission limits based on emission unit throughput were separated into two different conditions and tables: one listing the throughput and the corresponding emission limit and the other listed the emission unit name and the equation that the emission unit was limited to. Since the source is no longer claiming confidentiality on throughputs, these conditions are combined into a single table listing the emission unit ID, throughput and emission limit. Since the conditions were combined, the subsequent condition numbers in the rest of each section were corrected as well as any references to these conditions.

~~D.1.3 Particulate Matter (PM) [326 IAC 6-3-2]~~

~~Pursuant to 326 IAC 6-3-2 (Process Operations), the particulate matter (PM) from the following units shall be limited by the equation following this table:~~

Unit	Description
2EL1	Dryer Megatex Conveyor, Dryer Rotex, #1, #2, and #3 Scalperators, Screening Bins, Solvent Screening Leg, #1 Leg, #2 Leg, #3 Leg, West to East Hi-Roller, West to East Belt Loader, Dry Bean Leg, #1 Dryer Roller, Weaver's Belt, 102 Belt
5EL1	North Tripper Buggy, North Galley Belt Loader, East West Belt, Bin 102
8EL1	North West Receiving House Conveyor
10EL1	Rail Receiving, North Leg, South Leg
14EL1	Jumbo Silo East and West Galley Belts, Jumbo Silo Crossover Galley Belt
16EL1	Grain Dryer #1
19EL1	Grain Dryer #2

~~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:~~

~~$$E = 55.0 P^{0.44} - 40$$
 where E = rate of emission in pounds per hour; and
 P = process weight rate in tons per hour~~

~~The individual limitations are included in an IDEM, OAQ confidential file because the process weight rates are considered confidential.~~

~~D.1.43 Particulate Matter (PM) [326 IAC 6-3-2]~~

~~Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), particulate emissions from each of following operations shall not exceed the pound per hour limit listed in the table below:~~

Unit	Process Weight Rate (ton/hr)	PM Limit (lb/hr)
1EL1	600	71.16
2EL1	270	61.82
2EL2	5.6	13.00
2EL3	5.6	13.00
5EL1	900	76.23
8EL1	360	65.09
10EL1	720	73.41
14EL1	600	71.16
16EL1	75	48.43
19EL1	60	46.29
20EL1	450	67.70

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

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

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

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

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

* * *

D.1. 76 Particulate Matter (PM) [40 CFR 64 (CAM)]

- (a) In order to comply with Conditions D.1.1, D.1.2, **and** D.1.3, ~~and D.1.4~~, the baghouses for particulate control shall be in operation and control emissions from 1EL1, 2EL1, 2EL2, 2EL3, 5EL1, 10EL1, 14EL1, and 20EL1 at all times that these processes are in operation.

* * *

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

D.1. 140 Record Keeping Requirements

- (a) To document the compliance status with Condition D.1.1, the Permittee shall maintain monthly records of the amount of soybean grains processed after the grain dryers.
- (b) To document the compliance status with Condition D.1.~~87~~, the Permittee shall maintain a daily record of visible emission notations of the grain handling processes' stack exhausts. The Permittee shall include in its daily record when a visible emission notation is not taken and the reason for the lack of visible emission notation (e.g. the process did not operate that day).
- (c) To document the compliance status with Condition D.1.~~98~~, the Permittee shall maintain a daily record of the pressure drop across the baghouses controlling the grain handling processes. The Permittee shall include in its daily record when a pressure drop reading is not taken and the reason for the lack of a pressure drop reading (e.g. the process did not operate that day).

* * *

2.2 ~~Particulate Matter (PM) [326 IAC 6-3-2]~~

Pursuant to 326 IAC 6-3-2 (Process Operations), the particulate matter (PM) from the following emission units shall be limited by the equation(s) following this table:

Unit	Description
3EL1	Silo Bin Vents
4EL1	Silo Direct Loadout
6EL1	South Tripper Buggy, South Galley Belt Loader, North-South Belt
7EL1	South West Receiving House Conveyor
8EL1	North West Receiving House Enclosed Conveyor
9EL1	Truck Dump #3
12EL1	Truck Dump #5
13EL1	Jumbo Silo East Tunnel Belt, Jumbo Silo West Tunnel Belt, Jumbo Silo Crossover Tunnel Belt
15EL1	Truck Dump #6
17EL1	Grain Dryer #4 and #5

Unit	Description
19EL1	Grain Dryer #2
204RO1	Lec. Dept. Filter Aid Unit
102EO1	Daily Use Bins
103EO1	Filter Aid Silos
4SP1	Salt Conveying
1EX1	Flaking Rolls #1, #2, #3, #4, #5, #6, B Flake N/S Drag
1EX2	Flaking Roll #14, Flaking Roll Discharge #14
3EX1	Flaking Rolls #9, #10, #11, #12, #13, 'A' Flake N/S Drag, 'A' Flake E/W Drag
3EX2	North Run Around Drag
4EX1	Whole Bean Scale, 'A' Whole Bean Leg, 'A' Surge Bin, Whole Bean Drag, 'B' Surge Bin
4EX2	Run Around Rework Screw
4EX3	Hull Refining Screw Conveyor, Hull Refining Process, Hull Grinding Process
5EX1	Dehulling Equipment
5EX2	Hot Dehulling Equipment
5EX3	Screening
6EX1	Truck Meal Loadout, Rail Meal Loadout
9EX1	Leg No. 2, Mixing Conveyor, Bin Drag
10EX1	Leg No.3, Tunnel Drag, Meal Loadout Drag
11EX1	Kaolin Bin
12EX1	Meal Loadout Bin
24EX1	'A' Unit ('A' pre-DT, 'A' DT, and 'A' Meal Dryer)
24EX2	'B' Unit ('B' pre-DT, 'B' DT, and 'B' Meal Dryer)
24EX3	Meal Cooler
16EX1	Belt to Storage Bowls
16EX2	Large Storage Bowl
16EX3	Small Storage Bowl
18EX1	Whole Bean Bins
23EX1	Meal Storage Silos
8SP1	Ash Conveying and Loading Operation
17EX2	Flaking Roll #8, 'B' Flake E/W Drag
31EX1	Conditioner
31EX2	Conditioner

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

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

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:

$$E = 55.0 P^{0.44} - 40 \quad \text{where } E = \text{rate of emission in pounds per hour; and} \\ P = \text{process weight rate in tons per hour}$$

The individual limitations are included in an IDEM, OAQ confidential file because the process weight rates are considered confidential.

D.2.32 Particulate Matter (PM) [326 IAC 6-3-2]

Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), particulate emissions from each of following operations shall not exceed the pound per hour limit listed in the table below:

Unit	Process Weight Rate (ton/hr)	PM Limit (lb/hr)
3EL1	900	76.23
4EL1	270	61.82
6EL1	900	76.23
7EL1	360	65.09
8EL1	360	65.09
9EL1	900	76.23
12EL1	600	71.16
13EL1	360	65.09
15EL1	360	65.09
17EL1	150	55.44
19EL1	60	46.29
204RO1	2.5	7.58
102EO1	2.5	7.58
103EO1	16	26.28
4SP1	21	31.53
1EX1	93.1	50.56
1EX2	93.1	50.56
3EX1	48.8	44.35
3EX2	48.8	44.35
4EX1	156.3	55.87
4EX2	156.3	55.87
4EX3	156.3	55.87
5EX1	156.3	55.87
5EX2	156.3	55.87
5EX3	156.3	55.87
6EX1	150	55.44
7EX1	176	57.13
7EX2	45	43.60
7EX3	45	43.60
7EX4	45	43.60
7EX5	45	43.60
Conveyor (each)	176	57.13
9EX1	125	53.55
10EX1	333	64.19
11EX1	15	25.16
12EX1	540	69.88
24EX1	109.4	52.18
24EX2	109.4	52.18
24EX3	110	52.24
16EX1	93	50.55
16EX2	93	50.55
16EX3	93	50.55
18EX1	156.3	55.87
23EX1	125	53.55
8SP1	13.8	23.80
17EX2	156.3	55.87
31EX1	156.3	55.87
31EX2	156.3	55.87

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

D.2.1211 Record Keeping Requirements

- (a) To document the compliance status with Condition D.2.1, the Permittee shall maintain monthly records of the amount of soybean grains processed after the grain dryers.
- (b) To document the compliance status with Condition D.2.87, the Permittee shall maintain a daily record of visible emission notations of the grain handling and soybean meal production processes' stack exhausts. The Permittee shall include in its daily record when a visible emission notation is not taken and the reason for the lack of visible emission notation (e.g. the process did not operate that day).
- (c) To document the compliance status with Condition D.2.98, the Permittee shall maintain a daily record of the pressure drop across the baghouses controlling the grain handling and soybean meal production processes. The Permittee shall include in its daily record when a pressure drop reading is not taken and the reason for the lack of a pressure drop reading (e.g. the process did not operate that day).

* * *

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

~~D.6.1 Particulate Emissions [326 IAC 6-3-2]~~

~~Pursuant to 326 IAC 6-3-2, the particulate matter (PM) from the pelletizer/pellet cooler shall not exceed 19.18 pounds per hour when operating at a process weight rate of 10 tons per hour. The pound per hour limitation was calculated with the following equation:~~

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

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

~~D.6.2 Particulate Matter (PM) [326 IAC 6-3-2]~~

~~Pursuant to 326 IAC 6-3-2 (Process Operations), the particulate matter (PM) from the following emission units shall be limited by the equation(s) following this table:~~

Unit	Description
29EX1	Loadout Bins

D.6.1 Particulate Matter (PM) [326 IAC 6-3-2]

Pursuant to 326 IAC 6-3-2 (Process Operations), particulate emissions from each of following operations shall not exceed the pound per hour limit listed in the table below:

Unit	Process Weight Rate (ton/hr)	PM Limit (lb/hr)
29EX1	10	19.18
32EX1	10	19.18
32EX2	10	19.18

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

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

* * *

D.1. 76 Particulate Matter (PM) [40 CFR 64 (CAM)]

- (a) In order to comply with Conditions D.1.1, D.1.2, **and** D.1.3, ~~and D.1.4~~, the baghouses for particulate control shall be in operation and control emissions from 1EL1, 2EL1, 2EL2, 2EL3, 5EL1, 10EL1, 14EL1, and 20EL1 at all times that these processes are in operation.

Modification No. 3

The following changes have been made to the conditions of Section D.2:

- (a) **Condition D.2.1**
Deducting the emissions associated with the hot dehulling equipment, 5EX2, from the original construction permit's emission limit for 5EX1, 5EX2, and 5EX3. Since 5EX2 now has a separate baghouse and stack, 33EX, it will also have its own emission limitation in order to ensure that the previously established PSD minor limit in CP 001-4673-00005 and A 001-9930-00005 remain unchanged.
- (b) **Condition D.2.4**
1) *The condition requiring testing to demonstrates compliance with another condition had a typographical error and referenced the wrong condition.*
2) *PM and PM10 testing have been added to the requirements of the hot dehulling equipment, 5EX2, due to the addition of the new control device and stack designation, 33EX.*
- (c) **Condition D.2.7**
1) *The new baghouse/stack exhaust, 33EX, is applicable to CAM and required to perform visible emissions notations.*
2) *3 exhaust vents, 3EL, 16EX and 18EX, were previously included in the condition requiring visible emissions notations in order to comply with CAM. The source would like to remove these vents from this CAM requirement because none of the vents use control devices and therefore do not meet CAM applicability or compliance monitoring applicability under 326 IAC 2-7-5 and 326 IAC 2-7-6. The potential to emit for the units associated with these vents are less than the emission limit set forth in 326 IAC 6-3-2. Therefore visible emissions notations are not necessary to demonstrate compliance with 326 IAC 6-3-2. The potential to emit calculations for these units are in Appendix A.*
- (d) **Condition D.2.8**
The control device, 1EX, used in conjunction with the emission units 1EX1 and 1EX2, has been added to the parametric monitoring condition

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

D.2.1 PSD Minor Limits [326 IAC 2-2]

The Permittee shall comply with the following:

- (a) The amount of soybean grains processed after the grain dryers shall be limited to less than 1,368,750 tons per twelve (12) consecutive month period, with compliance determined at the end of each month, and
- (b) Pursuant to CP 001-4673-00005, issued May 10, 1996 and AA 001-9930-00005, issued September 17, 1998, the PM and PM10 emissions shall be limited as follows:

EU ID	Stack ID	PM Limit (lb/hr)	PM10 Limit (lb/hr)
19EL1	19EL	1.36	0.283
1EX1, 1EX2	1EX	0.474	0.474
4EX1, 4EX2, 4EX3	4EX	1.441	1.441
5EX1, 5EX2 , 5EX3	5EX	1.676 1.505	1.676 1.505
5EX2	33EX	0.171	0.171
24EX1	24EX1	6.79	6.79
24EX2	24EX2	6.79	6.79
24EX3	24EX3A, 24EX3B	2.18, each	2.18, each
23EX1	23EX	0.021	0.021
6EX1	6EX	2.218	2.218

* * *

Compliance Determination Requirements

D.2.54 Testing Requirements [326 IAC 2-7-6(1),(6)] [326 IAC 2-1.1-11]

- (a) In order to demonstrate compliance with Condition D.42.1(c), the Permittee shall perform PM and PM-10 testing of the meal sizing and grinding operation, unit ID 7EX, no later than 180 days of publication of the new or revised condensable PM test method(s) referenced in the U. S. EPA's Final Rule for Implementation of the New Source Review (NSR) Program for Particulate Matter Less Than 2.5 Micrometers (PM2.5), signed on May 8th, 2008. This testing shall be conducted 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. Testing shall be conducted in accordance with the provisions of 326 IAC 3-6 (Source Sampling Procedures). Section C - Performance Testing contains the Permittee's obligation with regard to the performance testing required by this condition. PM-10 includes filterable and condensable PM.
- (b) **In order to demonstrate compliance with Condition D.2.1(b), the Permittee shall perform PM and PM-10 testing of the hot dehulling equipment (5EX2), within sixty (60) days after achieving the maximum capacity, but not later than one hundred eighty (180) days after initial startup, utilizing methods as approved by the Commissioner at least once every five (5) years from the date of the most recent valid compliance demonstration. Testing shall be conducted in accordance with the provisions of 326 IAC 3-6 (Source Sampling Procedures). Section C – Performance Testing contains the Permittee’s obligation with regard to the performance testing required by this condition. Testing shall be conducted in accordance with Section C - Performance Testing. PM-10 includes filterable and condensible PM-10.**

* * *

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

D.2.87 Visible Emissions Notations [40 CFR 64 (CAM)]

- (a) Daily visible emission notations of the grain handling, grain drying, and soybean meal production stack exhausts/vents (~~3EL~~, 6EL, 9EL, 12EL, 13EL, 15EL, 17EL, 204RO, 102EO, 103EO, 4SP, 1EX, 3EX, 4EX, 5EX, 6EX, 7EX, 9EX, 10EX, 11EX, 12EX, 24EX1, 24EX2, ~~46EX~~, ~~48EX~~, 24EX3A, 24EX3B, 23EX, **33EX**, 1SP, and 17EX) shall be performed during normal daylight operations. A trained employee shall record whether emissions are normal or abnormal.

* * *

D.2.98 Parametric Monitoring [40 CFR 64 (CAM)]

The Permittee shall record the pressure drop across the baghouses used in conjunction with 6EL1, 9EL1, 12EL1, 13EL1, 15EL1, 204RO1, 102EO1, 103EO1, 4SP1, **1EX1, 1EX2**, 4EX1, 4EX2, 4EX3, 5EX1, 5EX2, 5EX3, 6EX1, 7EX, 9EX1, 10EX1, 11EX1, 12EX1, and 8SP1 at least once per day when these facilities are in operation. When for any one reading, the pressure drop across the baghouse is outside the normal range of 0.5 and 12.0 inches of water or a range established during the latest stack test, the Permittee shall take reasonable response steps. Section C – Response to Excursions and Exceedances contains the Permittee's obligation with regard to the reasonable response steps required by this condition. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps shall be considered a deviation from this permit.

Conclusion and Recommendation

The operation of this proposed modification shall be subject to the conditions of the attached proposed Part 70 Significant Permit Modification No. 001-29887-00005. The staff recommend to the Commissioner that this Part 70 Significant Permit Modification be approved.

IDEM Contact

- (a) Questions regarding this proposed permit can be directed to Denny Vendt at the Indiana Department Environmental Management, Office of Air Quality, Permits Branch, 100 North Senate Avenue, MC 61-53 IGCN 1003, Indianapolis, Indiana 46204-2251 or by telephone at (317) 234-5300 or toll free at 1-800-451-6027 extension 4-5300.
- (b) A copy of the findings is available on the Internet at: <http://www.in.gov/ai/appfiles/idem-caats/>
- (c) For additional information about air permits and how the public and interested parties can participate, refer to the IDEM's Guide for Citizen Participation and Permit Guide on the Internet at: www.idem.in.gov

Appendix A: Emissions Calculations
Emissions from Hot Dehulling Equipment - 5EX2

Company Name: **Bunge North America (East), LLC**
 Address City IN Zip: **1200 N. 2nd Street, Decatur, Indiana 46733**
 Part 70 Operating Permit Renewal No.: **T001-23640-00005**
 Significant Permit Modification No.: **001-29887-00005**
 Prepared By: **Denny Vendt**

Emission Calculations for Hot Dehulling

Changes:

Remove Hot Dehulling Aspiration from 'B' RJ 156.3 TPH (5EX)
 Add Baghouse for Hot Dehulling Aspiration 156.3 TPH (33EX)
 New baghouse 4000 cfm max.

Conversion Factors:	
7000	gr/lb
60	min/hr
8760	hr/yr
2000	lb/ton
100%	PM2.5/PM10 ratio ¹

			Em. Factor	Throughput	Baghouse Efficiency	Baghouse Airflow	Controlled PTE	Uncontrolled PTE ²	
	SCC	Pollutant	(gr/scf)	(ton/hr)	(%)	(cfm)	(TPY)	(PPH)	(TPY)
Hot Dehulling to Flaking									
Cracking and Dehulling	30200785	PM & PM10	0.005	156.3	99.99%	4,000	0.75	0.171	7508.6
		PM2.5	0.005	156.3	99.99%	4,000	0.75	0.171	7508.6

¹ PM2.5 Emissions are the same as PM and PM10

² Uncontrolled PTE calculated by removing control device efficiency of 99.99%. This is an extremely conservative method for determining the unit's uncontrolled PTE.

	Emission Units	Baghouse/Stack	PM Limit (lb/hr)	PM10 Limit (lb/hr)
Emission limit before Modification ³	5EX1, 5EX2, and 5EX3	5EX	1.676	1.676
Emission limit after modification	5EX2	33EX	0.171	0.171
Emission limit after Modification	5EX1 and 5EX3	5EX	1.505	1.505

³ PM and PM10 limits established in Part 70 Renewal T001-23640-00005 (Condition D.2.1 Table).

Appendix A: Emissions Calculations

Evaluation for PM & PM10 Compliance Determination for Particulate Emission Limitations for Manufacturing Processes Rule

Company Name: Bunge North America (East), LLC
Address: 1200 N. 2nd Street, Decatur, Indiana 46733
Part 70 Operating Permit Renewal No.: T001-23640-00005
Significant Permit Modification No.: 001-29887-00005
Reviewer: Denny Vendt

Process / Units	Throughput (ton/hr)	PM Emission Factor (lb/ton)	Potential to Emit PM (ton/yr)	PM Emission Limitation (lbs/hr)	PM TPY Equivalent (ton/yr)	Potential PM emissions exceed PM Limitation
Silo bin vents - 3EL1	900.00	0.025	98.55	76.23	333.9	N
Silo direct loadout - 4EL1	270.00	0.025	29.57	61.82	270.8	N
Conveyor Belt to Storage Bowls - 16EX1	93.00	0.061	24.85	50.55	221.4	N
Large Storage Bowl - 16EX2	93.00	0.061	24.85	50.55	221.4	N
Small Storage Bowl - 16EX3	93.00	0.061	24.85	50.55	221.4	N
Whole bean bins - 18EX1	156.30	0.061	41.76	55.87	244.7	N

Methodology:

Uncontrolled PM/PM₁₀(lb/hr) = Throughput (ton/hr) * EF (lb/ton)

Uncontrolled PM/PM₁₀(ton/hr) = Throughput (ton/hr) * EF (lb/ton) * 8760 (hr/yr) * 1 ton/2000lb

* Emission Factors from AP-42, Table 9.9.1-1.

PM Emission Limitation from 326 IAC 6-3-2



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

We Protect Hoosiers and Our Environment.

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Governor

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SENT VIA U.S. MAIL: CONFIRMED DELIVERY AND SIGNATURE REQUESTED

TO: Christine Thomas
Bunge North America (East), LLC
1200 N 2nd Street
Decatur, IN 46733

DATE: July 29, 2011

FROM: Matt Stuckey, Branch Chief
Permits Branch
Office of Air Quality

SUBJECT: Final Decision
Significant Permit Modification
001-29887-00005

Enclosed is the final decision and supporting materials for the air permit application referenced above. Please note that this packet contains the original, signed, permit documents.

The final decision is being sent to you because our records indicate that you are the contact person for this application. However, if you are not the appropriate person within your company to receive this document, please forward it to the correct person.

A copy of the final decision and supporting materials has also been sent via standard mail to:
Pat McNamara – Facility Manager
OAQ Permits Branch Interested Parties List

If you have technical questions regarding the enclosed documents, please contact the Office of Air Quality, Permits Branch at (317) 233-0178, or toll-free at 1-800-451-6027 (ext. 3-0178), and ask to speak to the permit reviewer who prepared the permit. If you think you have received this document in error, please contact Joanne Smiddie-Brush of my staff at 1-800-451-6027 (ext 3-0185), or via e-mail at jbrush@idem.IN.gov.

Final Applicant Cover letter.dot 11/30/07



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

We Protect Hoosiers and Our Environment.

Mitchell E. Daniels Jr.
Governor

Thomas W. Easterly
Commissioner

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

July 29, 2011

TO: Decatur Public Library

From: Matthew Stuckey, Branch Chief
Permits Branch
Office of Air Quality

Subject: **Important Information for Display Regarding a Final Determination**

Applicant Name: Bunge North America (East), LLC
Permit Number: 001-29887-00005

You previously received information to make available to the public during the public comment period of a draft permit. Enclosed is a copy of the final decision and supporting materials for the same project. Please place the enclosed information along with the information you previously received. To ensure that your patrons have ample opportunity to review the enclosed permit, **we ask that you retain this document for at least 60 days.**

The applicant is responsible for placing a copy of the application in your library. If the permit application is not on file, or if you have any questions concerning this public review process, please contact Joanne Smiddie-Brush, OAQ Permits Administration Section at 1-800-451-6027, extension 3-0185.

Enclosures
Final Library.dot 11/30/07

Mail Code 61-53

IDEM Staff	GHOTOPP 7/29/2011 Bunge North America (East), LLC 001-29887-00005 Final		Type of Mail: CERTIFICATE OF MAILING ONLY	AFFIX STAMP HERE IF USED AS CERTIFICATE OF MAILING
Name and address of Sender		Indiana Department of Environmental Management Office of Air Quality – Permits Branch 100 N. Senate Indianapolis, IN 46204		

Line	Article Number	Name, Address, Street and Post Office Address	Postage	Handing Charges	Act. Value (If Registered)	Insured Value	Due Send if COD	R.R. Fee	S.D. Fee	S.H. Fee	Rest. Del. Fee	Remarks
1		Christine Thomas Bunge North America (East), LLC 1200 N 2nd St Decatur IN 46733 (Source CAATS) via confirmed delivery										
2		Pat McNamara Facility Mgr Bunge North America (East), LLC 1200 N 2nd St Decatur IN 46733 (RO CAATS)										
3		Adams County Commissioners 313 West Jefferson Street Decatur IN 46733 (Local Official)										
4		Adams County Health Department County Svcs Complex, 313 W. Jefferson # 314 Decatur IN 46733-1673 (Health Department)										
5		Decatur Public Library 128 S 3rd St Decatur IN 46733-1691 (Library)										
6		Decatur City Council and Mayors Office 225 W. Monroe St. Decatur IN 46733 (Local Official)										
7		Mark Zeltwanger 26545 CR 52 Nappanee IN 46550 (Affected Party)										
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