INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
We make Indiana a cleaner, healthier place to live.

Mitchell E. Daniels, Jr.
Governor

Thomas W. Easterly
Commissioner

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

TO: Interested Parties / Applicant

DATE: December 6, 2005

RE: Bunge North America (East) Inc. / 145-21892-00035

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

Notice of Decision: Approval - Effective Immediately

Please be advised that on behalf of the Commissioner of the Department of Environmental Management, I have issued a decision regarding the enclosed matter. Pursuant to IC 13-17-3-4 and 326 IAC 2, this approval 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, Room 1049, Indianapolis, IN 46204, **within eighteen (18) calendar days of the mailing of this notice**. The filing of a petition for administrative review is complete on the earliest of the following dates that apply to the filing:

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

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

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

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

Enclosures
FNPER-MOD.dot 1/10/05

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Rob Andrews
Bunge North America (East), Inc.
700 North Rangeline Road
Morristown, IN 46161-9643

December 6, 2005

Re: 145-21892-00035
Minor Source Modification to
Part 70 Permit 145-9004-00035

Dear Mr. Andrews,

Bunge North America (East), Inc. was issued a Part 70 operating permit on June 29, 2004 for two soybean oil extraction plants located at 700 North Rangeline Road, Morristown, IN 46161-9643. An application to modify the emission source was received on October 21, 2005. Pursuant to 326 IAC 2-7-10.5, the alternate fuel project, to allow the use of soybean oil, or blends of soybean oil and distillate fuel oil, as fuel in two of the plant's existing boilers, is approved.

The following construction conditions are applicable to the proposed project:

General Construction Conditions

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

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

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

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

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

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

This minor source modification authorizes the construction and physical modification to accommodate the alternate fuel project. Operating conditions shall be incorporated into the Part 70 operating permit as a significant permit modification in accordance with 326 IAC 2-7-10.5(l)(2) and 326 IAC 2-7-12.

This decision is subject to the Indiana Administrative Orders and Procedures Act - IC 4-21.5-3-5. If you have any questions on this matter call (800) 451-6027, press 0 and ask for Allen R. Davidson or extension 3-5693, or dial (317) 233-5693.

Sincerely,

Original signed by
Paul Dubenetzky, Chief
Permits Branch
Office of Air Quality

Attachments
ARD

cc: File - Shelby County
Shelby County Health Department
Air Compliance Section Inspector - D.J. Knotts
Compliance Data Section
Administrative and Development

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PART 70 MINOR SOURCE MODIFICATION
OFFICE OF AIR QUALITY

Bunge North America (East), Inc.
700 N. Rangeline Road
Morristown, Indiana 46161-9643

(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.

Operation Permit No.: T145-9004-00035	
Issued by: Janet G. McCabe, Assistant Commissioner Office of Air Quality	Issuance Date: June 29, 2004 Expiration Date: June 29, 2009
1st Administrative Amendment 145-19331-00035	Issuance Date: August 11, 2004
2nd Administrative Amendment 145-19517-00035	Issuance Date: September 7, 2004
1st Significant Source Modification 145-21206-00035	Issuance Date: July 21, 2005
1st Significant Permit Modification 145-21327-00035	Issuance Date: August 3, 2005
1st Minor Source Modification 145-21892-00035	Pages Affected: 12 - 17, 60 - 62, 75 - 87, 98
Issued by: Original signed by Paul Dubenetzky, Branch Chief Office of Air Quality	Issuance Date: December 6, 2005 Expiration Date: June 29, 2009

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SECTION A SOURCE SUMMARY

This permit is based on information requested by the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ). The information describing the source contained in conditions A.1 through A.3 is descriptive information and does not constitute enforceable conditions. However, the Permittee should be aware that a physical change or a change in the method of operation that may render this descriptive information obsolete or inaccurate may trigger requirements for the Permittee to obtain additional permits or seek modification of this permit pursuant to 326 IAC 2, or change other applicable requirements presented in the permit application.

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

The Permittee owns and operates a stationary soybean processing plant.

Responsible Official:	Plant Manager
Source Address:	700 N. Rangeline Road, Morristown, Indiana 46161-0860
Mailing Address:	P.O. Box 860, Morristown, Indiana 46161-0860
General Source Phone Number:	(765) 763-7500
SIC Code:	2075
County Location:	Shelby
Source Location Status:	Nonattainment for ozone under the 8-hour standard; Attainment for all other criteria pollutants
Source Status:	Part 70 Permit Program Minor Source, under PSD Rules and Nonattainment NSR; Major Source, Section 112 of Clean Air Act

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:

NOTE: All capacities are considered confidential by the source and are included in a confidential OAQ file.

A-PLANT (EXISTING)

(a) Truck receiving operations, constructed in 1996, consisting of the following units, using the truck receiving/storage baghouse for control, and exhausting at stack Pt #1:

(1) Two (2) truck dumps (#1 & #2);

(2) Two (2) truck receiving conveyors (#1 & #2;

(3) Two (2) receiving legs (#1 & #2), using the truck receiving/storage baghouse and oil applications;

(4) One (1) screen;

(5) Two (2) receiving legs (#1 & #2) extending from the screen;

(6) Two (2) screening conveyors;

(7) One (1) screening leg;

(8) One (1) screening leg;

(9) Two (2) conveyors (#1 & #2) extending to storage silos and to bulk storage;

(10) Two (2) conveyors extending to bulk storage feeding and continuing to the bulk

storage silos;

(11) Ten (10) silos;

(12) One (1) screening bin;

(13) Two (2) bulk storage bins;

(14) One (1) screening conveyor extending from the screening silo;

(15) One (1) screening storage conveyor;

(16) Two (2) totally enclosed screenings transfer conveyors arranged in a series, transferring screenings from the screenings storage conveyors to the screening bucket elevator;

(17) One (1) screening bucket elevator, transferring screenings from the screenings transfer conveyors to the screenings surge bin;

(18) Two (2) bulk storage return conveyors (#1 & #2) arranged in a series;

(19) Two (2) conveyors from storage (#1 & #2);

(20) One (1) conveyor extending to the surge bin leg; and

(21) One (1) truck receiving/storage baghouse conveyor which transfers dust from the baghouse back to the truck receiving/storage baghouse;

(b) Rail receiving operations, constructed in 1996, consisting of the following units, using the rail receiving baghouse for control, and exhausting at stack Pt #2:

(1) One (1) rail car dump; and

(2) One (1) rail car receiving conveyor;

(c) Grain screening operations, constructed in 1996, consisting of the following units, using the screenings baghouse, and exhausting at stack Pt #5:

(1) One (1) screening surge bin;

(2) One (1) conveyor extending to the de-stoner;

(3) One (1) de-stoner, using a cyclone and the screening baghouse for control;

(4) One (1) screening grinder;

(5) Four (4) totally enclosed conveyors in a series, extending to the hull refining screener;

(6) One (1) cyclone exhausting to the screening baghouse;

(7) One (1) surge bin elevator;

(8) One (1) whole bean surge bin;

(9) One (1) dryer feed elevator;

(10) One (1) totally enclosed dryer feed conveyor, transferring beans to the dryer feed elevator;

(11) Two (2) whole bean aspirators, in parallel;

(12) One (1) dryer discharge conveyor;

(13) One (1) day bin elevator;

(14) Two (2) day bins;

(15) Two (2) totally enclosed conveyors, arranged in a series;

(16) Two (2) conveyors extending from the dryer to the dryer discharge conveyor;

(17) One (1) milling elevator;

(18) One (1) product meal conveyor, identified as #1;

(19) One (1) meal surge conveyor, identified as #2;

(20) Three (3) meal storage silos;

(21) One (1) load out leg conveyor;

(22) One (1) load out meal elevator; and

(23) One (1) meal transfer conveyor;

(d) One (1) column dryer, constructed in 1996, exhausting at stack Pt #3;

(e) Milling operations, constructed in 1996, consisting of the following units, using the RF filter baghouse for control, and exhausting at stack Pt #4:

(1) One (1) soy bean scale with upper and lower scale garners;

(2) Six (6) cracking rolls with primary dehulling aspirators, using the primary aspiration cyclone and RF filter baghouse for control;

(3) Three (3) conveyors extending from the primary dehulling aspirators, with a maximum combined capacity of 100 tons per hour;

(4) Three (3) surge bins;

(5) Three (3) cracked bean conditioners;

(6) Three (3) conveyors extending from the cracked bean conditioners;

(7) Three (3) impactors with secondary dehulling aspirators, using the secondary aspiration cyclones and RF filter baghouse for control;

(8) One (1) primary aspiration cyclone;

(9) One (1) secondary aspiration cyclone;

(10) Two (2) hull refining screeners, exhausting to the hull refining cyclone;

(11) Four (4) hull refining aspirators, exhausting to the hull refining cyclone;

(12) One (1) hull refining cyclone;

(13) Two (2) millfeed grinders;

(14) Three (3) surge bins;

(15) One (1) meal screen;

(16) Two (2) hammer mills;

(17) Two (2) totally enclosed sized meal conveyors, in a series; and

(18) One (1) millfeed weight belt;

(f) Flaking mill operations, constructed in 1996, consisting of the following units, using the flaker aspiration baghouse, and exhausting at stack Pt #6:

(1) Nine (9) flakers; and

(2) One (1) flake collecting conveyor;

(g) One (1) flow coating material bin, using the flow coat receiving baghouse for control, and exhausting at stack Pt #11;

(h) Truck meal loadout operations, constructed in 1996, consisting of the following units, using the truck meal loadout baghouse, and exhausting at stack Pt #12:

(1) One (1) mixer, extending from the hull grinders;

(2) One (1) millfeed elevator leg;

(3) One (1) totally enclosed millfeed conveyor;

(4) Three (3) millfeed bins;

(5) One (1) millfeed weigh belt;

(6) One (1) meal conveyor extending from the coolers;

(7) One (1) DTDC unground meal conveyor extending to another set of conveyors;

(8) One (1) unground meal conveyor;

(9) One (1) feeder;

(10) One (1) flow coating material screw;

(11) One (1) mixing screw conveyor;

(12) One (1) production meal elevator;

(13) One (1) product meal conveyor #2;

(14) Six (6) meal storage bins;

(15) One (1) truck load out conveyor;

(16) One (1) truck loader; and

(17) One (1) truck scale;

(i) Rail meal loadout operations, constructed in 1996, consisting of the following units, using the rail meal loadout baghouse, and exhausting at stack Pt #13:

(1) a rail load out conveyor;

(2) One (1) rail scale; and

(3) One (1) rail loader;

(j) Oil extraction and processing operations, constructed in 1996, consisting of the following units:

(1) One (1) soybean oil extractor, using a mineral oil absorber for control, and exhausting at stack Pt #9;

(2) One (1) set of evaporators, using a mineral oil absorber for control, and exhausting at stack Pt #9;

(3) One (1) desolventizer/toaster, using a mineral oil absorber for control, and exhausting at stack Pt #9;

(4) One (1) set of condensers and water separators to separate hexane and water, using a mineral oil absorber for control, and exhausting at stack Pt #9;

(5) Two (2) mineral oil absorbers, using a mineral oil absorber for control, and exhausting at stack Pt #9;

(6) One (1) spent flake conveyor extending to the meal dryer;

(7) One (1) totally enclosed seal screw conveyor, installed in a series with the slurry loader conveyor;

(8) One (1) flake conveyor extending to the slurry loader conveyor;

(9) One (1) slurry loader conveyor;

(10) One (1) hexane storage tank, identified as #1 (storage);

(11) One (1) hexane storage tank, identified as #2 (process tank);

(12) One (1) hexane storage tank, identified as #3 (work/separation);

(k) Two (2) DTDC meal dryers (#1 & #2), both constructed in 1996, using a cyclone for control and exhausting at stack Pt #7;

(l) One (1) cyclone for the control of the meal dryers, constructed in 1996, and exhausting at stack Pt #7;

(m) Two (2) DTDC meal coolers (#1 & #2), both constructed in 1996, using a cyclone for control, and exhausting at stack Pt #8;

(n) One (1) cyclone for the control of the meal coolers, constructed in 1996, and exhausting at stack Pt #8;

(o) One (1) boiler, identified as the Murray boiler, constructed in 1996, firing natural gas, vegetable oil, #2 distillate fuel oil, or blends of vegetable oil and #2 distillate fuel oil, rated at 96 million Btu per hour;

(p) One (1) vegetable oil refinery process, constructed in 2002, consisting of crude vegetable oil receiving, storage, filtration, and degumming equipment; lecithin drying and processing equipment; oil refining, deodorizing, and filtration equipment; bulk oil handling, blending, storage, and loadout facilities; and including the following equipment:

(1) One (1) storage silo, identified as R-101, equipped with a baghouse for particulate matter control, exhausting to Stack R-101;

(2) One (1) surge tank, identified as R-102, equipped with a baghouse for particulate matter control, exhausting to Stack R-102;

(3) One (1) storage silo, identified as R-103, equipped with a baghouse for particulate matter control, exhausting to Stack R-103;

(4) One (1) surge tank, identified as R-104, equipped with a baghouse for particulate matter control, exhausting to Stack R-104;

(5) One (1) storage silo, identified as R-105, equipped with a baghouse for particulate matter control, exhausting to Stack R-105;

(6) One (1) surge tank, identified as R-106, equipped with a baghouse for particulate matter control, exhausting to Stack R-106; and

(7) One (1) natural gas-fired boiler, identified as R-107, exhausting to Stack R-107.

(q) One (1) pelletizing/extruding mill, labeled as part of EU# 26, with a maximum rate of 36,000 lbs raw material per hour (18 tph), using a cyclone control device with a rating of 0.01 grains/dscf and 7,500 acfm at stack Pt#26;

(r) One (1) pellet cooler, labeled as part of EU# 26, with a maximum rate of 36,000 lbs raw material per hour (18 tph), using a high efficiency cyclone control device with a rating of 0.01 grains/dscf and 7,500 acfm at stack Pt#26;

(s) One (1) totally enclosed drag conveyor, with a maximum rate of 15 tons per hour;

(t) One (1) totally enclosed “L” path conveyor, with a maximum rate of 15 tons per hour; and

(u) One (1) bucket leg, with a maximum rate of 15 tons per hour.

(v) The following emission units used in truck receiving operations, using the truck receiving/storage baghouse (identified as #17) for control, and exhausting through stack Pt #1:

(1) Two (2) screens, identified as #4, with a total maximum throughput rate of 1,210 tons per hour.

(2) One (1) transfer system, identified as #9a, with a maximum throughput rate of 1,150 tons per hour, transferring soybeans from the bulk storage elevator to the bulk storage silos.

(3) One (1) enclosed whole bean conveyor, identified as #16a, with a maximum throughput rate of 340 tons per hour, conveying beans from the surge bin leg to the whole bean surge silo (#28a).

(4) One (1) whole bean surge silo, identified as #28a, with a maximum storage capacity of 40,000 bushels.

(5) One (1) enclosed conveyor, identified as #17a, with a maximum throughput rate of 40 tons per hour, conveying the dust from the truck receiving/storage baghouse (#17) to the screening leg.

(6) One (1) new bean screening screw conveyor, identified as #1a, with a maximum throughput rate of 36 tons per hour, transferring soybeans from the screening system (#4) to the screening leg baghouse.

(w) The following emission units used in meal processing operations, using the meal grinding baghouse (identified as #39b) for control, and exhausting through stack Pt #24:

(1) One (1) enclosed meal screener feeder conveyor, identified as #74a, with a maximum throughput rate of 80 tons per hour, conveying the meal produced to the meal screen system.

(2) One (1) enclosed meal grinder feed conveyor, identified as #75a, with a maximum throughput rate of 80 tons per hour, conveying the meal from the meal screen system to meal feeders.

(3) One (1) meal grinding system, identified as #76, consisting of three (3) hammer mills, with a total maximum process rate of 80 tons per hour. This process rate is limited by the maximum throughput rate of the conveyors.

(4) Two (2) enclosed sized meal conveyors, identified as #78a, with a total maximum throughput rate of 80 tons per hour, conveying the ground meal from the meal grinding system (#76) to the meal handling system.

A-PLANT (NEW EQUIPMENT)

(x) One (1) totally enclosed screening conveyor, identified as #1a.

(y) One (1) screening leg, identified as #7a, controlled by truck receiving /storage baghouse, and exhausting at stack Pt #1.

(z) One (1) conveyor to bulk storage feeding to bulk storage silos, identified as #9a, controlled by truck receiving /storage baghouse, and exhausting at stack Pt #1.

(aa) One (1) screening bin, identified as #10a.

(ab) One (1) screening from storage conveyor after screening conveyor, identified as #13a.

(ac) One (1) conveyor to surge bin leg, identified as #16a.

(ad) One (1) truck receiving /storage baghouse conveyor, identified as #17a, transferring the dust from the baghouse to the screenings leg directly aspirated to the truck receiving /storage baghouse.

(ae) Three (3) totally enclosed conveyors to hull refining screener, identified as #25a.

(af) One (1) totally enclosed dryer feed conveyor to the dryer feed elevator, identified as #29a.

(ag) One (1) hull refining screener, identified as #48a, exhausting to hull refining cyclone.

(ah) One (1) hull refining aspirator, identified as #49a, exhausting to hull refining cyclone.

(ai) One (1) totally enclosed millfeed conveyor to storage, identified as #53a.

(aj) One (1) millfeed elevator, identified as #54a, controlled by millfeed baghouse, and exhausting at stack Pt #16.

(ak) One (1) seal screw conveyor, identified as #61a.

(al) One (1) totally enclosed meal screen feeder conveyor, identified as #74a.

(am) Two (2) totally enclosed sized meal conveyors, identified as #78a.

B-PLANT

(an) One (1) aspirator between conveyor from storage and surge bin leg, aspirated to truck receiving /storage baghouse, identified as #1b, and exhausting at stack Pt #1.

(ao) One (1) totally enclosed millfeed conveyor to storage, identified as #2b.

(ap) One (1) millfeed elevator controlled by millfeed baghouse, identified as #3b, and exhausting at stack Pt #16.

(aq) One (1) aspirator between milling leg and bean scale, identified as #4b, aspirated to milling baghouse, and exhausting at stack Pt #4.

(ar) One (1) totally enclosed hull collecting conveyor, identified as #5b, feeding to "B" plant hull refining screener.

(as) One (1) "B" plant whole bean surge bin #2, identified as #6b, controlled by a cyclone, and the screening baghouse, and exhausting at stack Pt #5.

(at) One (1) hull refining cyclone, identified as #7b, discharging to the screening baghouse, and exhausting at stack Pt #5.

(au) One (1) "B" plant whole soybean feed bucket elevator, identified as #8b, controlled by hull refining cyclone, and the screening baghouse, and exhausting at stack Pt #5.

(av) One (1) "B" plant totally enclosed soybean feed conveyor, identified as #9b.

(aw) One (1) "B" plant whole bean aspiration, identified as #10b , controlled by the screening baghouse, and exhausting at stack Pt #5.

(ax) One (1) "B" plant bean weighing system, identified as #11b, controlled by the screening baghouse, and exhausting at stack Pt #5.

(ay) One (1)"B" plant totally enclosed millfeed grinding conveyor, identified as #12b, controlled by the screening baghouse, and exhausting at stack Pt #5.

(az) One (1) "B" plant hull refining screener, identified as #13b, controlled by a hull refining cyclone, and the screening baghouse, and exhausting at stack Pt #5.

(ba) One (1) "B" plant aspirator, identified as #14b, controlled by a hull refining cyclone, and the screening baghouse, and exhausting at stack Pt #5.

(bb) One (1) "B" plant totally enclosed feed conveyor, identified as #15b.

(bc) One (1) set of "B" plant bean heaters, identified as #16b, controlled by a bean heater cyclone, and exhausting at stack Pt # 18A.

(bd) One (1) totally enclosed "B" plant soybean conveyor (feeding the jet dryers), identified as #17b, controlled by a bean heater cyclone, and exhausting at stack Pt # 18A.

(be) One (1) set of "B" plant jet dryers, identified as #18b, controlled by a dryer cyclone, and exhausting at stack Pt # 18A.

(bf) One (1) "B" plant bean heaters cyclone, identified as #19b, exhausting at stack Pt # 18A.

(bg) One (1) "B" plant bean dryers cyclone, identified as #20b, exhausting at stack Pt # 18A.

(bh) One (1) "B" plant hulloosenators, identified as #21b, maximum total capacity of 127.5 tons per hour.

(gi) One (1) set of "B" plant cascade dryers, identified as #22b.

(bj) One (1) set of "B" plant cracking rolls, identified as #23b.

(bk) One (1) set of "B" plant cascade coolers, identified as #24b, controlled by a ccc cyclone, and exhausting at stack Pt # 18A.

(bl) Three (3) "B" plant totally enclosed after cascade coolers conveyors (feeding the flakers), identified as #25b, controlled by a ccc cyclone, and exhausting at stack Pt # 18A.

(bm) One (1) "B" plant ccc cyclone, identified as #26b, exhausting at stack Pt # 18A.

(bn) One (1) set of "B" plant flakers, identified as #27b, controlled by a flakers baghouse, and exhausting at stack Pt # 19.

(bo) One (1) "B" plant flakers baghouse, identified as #28b, exhausting at stack Pt # 19.

(bp) One (1) "B" plant totally enclosed flake conveyor (feeding the seal conveyor), identified as #28b.

(bq) One (1) "B" plant totally enclosed seal screw conveyor (feeding the slurry loader conveyor), identified as #29b.

(br) One (1) "B" plant totally enclosed slurry loader conveyor (feeding the extractor), identified as #30b.

(bs) One (1) "B" plant soybean oil extractor, identified as #31b, controlled by two (2) mineral oil absorbers, and exhausted at stack Pt. # 23.

(bt) A set of "B" plant evaporators, identified as #32b, controlled by two mineral oil absorbers, and exhausted at stack Pt. # 23.

(bu) A set of "B" plant condensers and water separator to separate hexane and water, identified as #33b, controlled by two mineral oil absorbers, and exhausted at stack Pt. # 23.

(bv) Two (2) "B" plant mineral oil absorbers, identified as #34b, exhausting at stack Pt. # 23.

(bw) One (1) totally enclosed "B" plant spent flake conveyor, identified as #35b.

(bx) Two (2) "B" plant meal dryers (#3 & #4), identified as #36b, controlled by one (1) dryer cyclone, and exhausting at stack Pt. # 21.

(by) Two (2) "B" plant meal coolers (#3 & #4), identified as #37b, controlled by one (1) cooler cyclone, and exhausting at stack Pt. # 22.

(bz) Four (4) "B" plant totally enclosed unground meal conveyors in series (meal screening system), identified as #38b.

(ca) One (1) meal grinding baghouse, identified as #39b, exhausting at stack Pt #24.)

(cb) One (1) boiler, identified as boiler no. 2, firing natural gas, vegetable oil, #2 distillate fuel oil, or blends of vegetable oil and #2 distillate fuel oil, rated at 240 million Btu per hour, controlled by low NOx burners and flue gas recirculation, and exhausting at stack Pt. # 20.

(cc) One (1) screening leg, identified as #41b, transferring screenings from the screenings transfer conveyors to the screening surge bin.

(cd) One (1) totally enclosed dryer feed conveyor, identified as #42b, transferring beans to the dryer feed elevator, controlled by screening baghouse, and exhausting at stack Pt #5.

(ce) One (1) day bin, identified as #43b.

(cf) One (1) meal screen feeder conveyor, identified as #44b.

(cg) One (1) rail meal loadout conveyor, identified as #45b, controlled by "B" plant rail loadout baghouse. and exhausting at stack Pt #17.

(ch) One (1) "B" plant rail loader, identified as #46b, controlled by "B" plant rail loadout baghouse and exhausting at stack Pt #17.

(ci) One (1) rail scale, identified as #47b.

(cj) One (1) "B" plant rail loadout baghouse, identified as #48b, exhausting at stack Pt #17.

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

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

(a) Blowdown for any of the following: sight glass; boiler; compressors; pumps; and cooling tower [326 IAC 6-3-2];

(b) Replacement or repair of electrostatic precipitators, bags in baghouses and filters in other air filtration equipment [326 IAC 6-3-2];

(c) Emission units with PM and PM10 emissions less than five (5) tons per year, SO_2, NOx, 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:

(1) One (1) #2 fuel oil storage tank, identified as #4, with a capacity of 3,958 cubic feet [326 IAC 12];

(2) One (1) soybean oil storage tank, identified as #6, with a capacity of 38,000 cubic feet [326 IAC 12];

(3) One (1) soybean oil storage tank, identified as #7, with a capacity of 38,000 cubic feet [326 IAC 12];

(4) One (1) #2 fuel oil storage tank, identified as #10, with a capacity of 3,958 cubic feet [326 IAC 12]; and

(d) Paved and unpaved roads and parking lots with public access [326 IAC 6-5].

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

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

(a) It is a major source, as defined in 326 IAC 2-7-1(22); and

(b) It is a source in a source category designated by the United States Environmental Protection Agency (U.S. EPA) under 40 CFR 70.3 (Part 70 - Applicability).

SECTION B GENERAL CONDITIONS

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

Terms in this permit shall have the definition assigned to such terms in the referenced regulation. In the absence of definitions in the referenced regulation, the applicable definitions found in the statutes or regulations (IC 13-11, 326 IAC 1-2 and 326 IAC 2-7) shall prevail.

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

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

B.3 Enforceability [326 IAC 2-7-7]

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

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

The Permittee's right to operate this source terminates with the expiration of this permit unless a timely and complete renewal application is submitted at least nine (9) months prior to the date of expiration of the source's existing permit, consistent with 326 IAC 2-7-3 and 326 IAC 2-7-4(a).

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

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

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

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

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

(a) The Permittee shall furnish to IDEM, OAQ, within a reasonable time, any information that IDEM, OAQ, may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. The submittal by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34). Upon request, the Permittee shall also furnish to IDEM, OAQ, copies of records required to be kept by this permit.

(b) For information furnished by the Permittee to IDEM, OAQ, the Permittee may include a claim of confidentiality in accordance with 326 IAC 17.1. When furnishing copies of requested records directly to U. S. EPA, the Permittee may assert a claim of confidentiality in accordance with 40 CFR 2, Subpart B.

B.8 Certification [326 IAC 2-7-4(f)] [326 IAC 2-7-6(1)] [326 IAC 2-7-5(3)(C)]

(a) Where specifically designated by this permit or required by an applicable requirement, any application form, report, or compliance certification submitted shall contain certification by a responsible official of truth, accuracy, and completeness. This certification shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.

(b) One (1) certification shall be included, using the attached Certification Form, with each submittal requiring certification.

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

B.9 Annual Compliance Certification [326 IAC 2-7-6(5)]

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

Indiana Department of Environmental Management
Compliance Branch, Office of Air Quality
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015

and

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

(b) The annual compliance certification report required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ, on or before the date it is due.

(c) The annual compliance certification report shall include the following:

(1) The appropriate identification of each term or condition of this permit that is the basis of the certification;

(2) The compliance status;

(3) Whether compliance was continuous or intermittent;

(4) The methods used for determining the compliance status of the source, currently and over the reporting period consistent with 326 IAC 2-7-5(3); and

(5) Such other facts, as specified in Sections D of this permit, as IDEM, OAQ, may require to determine the compliance status of the source.

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

B.10 Preventive Maintenance Plan [326 IAC 2-7-5(1),(3) and (13)] [326 IAC 2-7-6(1) and (6)] [326 IAC 1-6-3]

(a) If required by specific condition(s) in Section D of this permit, the Permittee shall prepare and maintain Preventive Maintenance Plans (PMPs) within ninety (90) days after issuance of this permit, including the following information on each facility:

(1) Identification of the individual(s) responsible for inspecting, maintaining, and repairing emission control devices;

(2) A description of the items or conditions that will be inspected and the inspection schedule for said items or conditions; and

(3) Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.

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

Indiana Department of Environmental Management
Compliance Branch, Office of Air Quality
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015

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

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

(c) A copy of the PMPs shall be submitted to IDEM, OAQ, upon request and within a reasonable time, and shall be subject to review and approval by IDEM, OAQ. IDEM, OAQ, may require the Permittee to revise its PMPs whenever lack of proper maintenance causes or is the primary contributor to an exceedance of any limitation on emissions or potential to emit. The PMP does not require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

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

B.11 Emergency Provisions [326 IAC 2-7-16]

(a) An emergency, as defined in 326 IAC 2-7-1(12), is not an affirmative defense for an action brought for noncompliance with a federal or state health-based emission limitation.

(b) An emergency, as defined in 326 IAC 2-7-1(12), constitutes an affirmative defense to an action brought for noncompliance with a technology-based emission limitation if the affirmative defense of an emergency is demonstrated through properly signed, contemporaneous operating logs or other relevant evidence that describe the following:

(1) An emergency occurred and the Permittee can, to the extent possible, identify the causes of the emergency;

(2) The permitted facility was at the time being properly operated;

(3) During the period of an emergency, the Permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards or other requirements in this permit;

(4) For each emergency lasting one (1) hour or more, the Permittee notified IDEM, OAQ, within four (4) daytime business hours after the beginning of the emergency, or after the emergency was discovered or reasonably should have been discovered;

Telephone Number: 1-800-451-6027 (ask for Office of Air Quality, Compliance Section), or
Telephone Number: 317-233-5674 (ask for Compliance Section)
Facsimile Number: 317-233-5967

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

Indiana Department of Environmental Management
Compliance Branch, Office of Air Quality
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015

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

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

(A) A description of the emergency;

(B) Any steps taken to mitigate the emissions; and

(C) Corrective actions taken.

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

(6) The Permittee immediately took all reasonable steps to correct the emergency.

(c) In any enforcement proceeding, the Permittee seeking to establish the occurrence of an emergency has the burden of proof.

(d) This emergency provision supersedes 326 IAC 1-6 (Malfunctions). This permit condition is in addition to any emergency or upset provision contained in any applicable requirement.

(e) IDEM, OAQ, may require that the Preventive Maintenance Plans required under 326 IAC 2-7-4-(c)(9) be revised in response to an emergency.

(f) Failure to notify IDEM, OAQ, by telephone or facsimile of an emergency lasting more than one (1) hour in accordance with (b)(4) and (5) of this condition shall constitute a violation of 326 IAC 2-7 and any other applicable rules.

(g) If the emergency situation causes a deviation from a technology-based limit, the Permittee may continue to operate the affected emitting facilities during the emergency provided the Permittee immediately takes all reasonable steps to correct the emergency and minimize emissions.

(h) The Permittee shall include all emergencies in the Quarterly Deviation and Compliance Monitoring Report.

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

(a) Pursuant to 326 IAC 2-7-15, the Permittee has been granted a permit shield. The permit shield provides that compliance with the conditions of this permit shall be deemed in compliance with any applicable requirements as of the date of permit issuance, provided that either the applicable requirements are included and specifically identified in this permit or the permit contains an explicit determination or concise summary of a determination that other specifically identified requirements are not applicable. The Indiana statutes from IC 13 and rules from 326 IAC, referenced in conditions in this permit, are those applicable at the time the permit was issued. The issuance or possession of this permit shall not alone constitute a defense against an alleged violation

of any law, regulation or standard, except for the requirement to obtain a Part 70 permit under 326 IAC 2-7 or for applicable requirements for which a permit shield has been granted.

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

(b) If, after issuance of this permit, it is determined that the permit is in nonconformance with an applicable requirement that applied to the source on the date of permit issuance, IDEM, OAQ, shall immediately take steps to reopen and revise this permit and issue a compliance order to the Permittee to ensure expeditious compliance with the applicable requirement until the permit is reissued. The permit shield shall continue in effect so long as the Permittee is in compliance with the compliance order.

(c) No permit shield shall apply to any permit term or condition that is determined after issuance of this permit to have been based on erroneous information supplied in the permit application. Erroneous information means information that the Permittee knew to be false, or in the exercise of reasonable care should have been known to be false, at the time the information was submitted.

(d) Nothing in 326 IAC 2-7-15 or in this permit shall alter or affect the following:

(1) The provisions of Section 303 of the Clean Air Act (emergency orders), including the authority of the U.S. EPA under Section 303 of the Clean Air Act;

(2) The liability of the Permittee for any violation of applicable requirements prior to or at the time of this permit's issuance;

(3) The applicable requirements of the acid rain program, consistent with Section 408(a) of the Clean Air Act; and

(4) The ability of U.S. EPA to obtain information from the Permittee under Section 114 of the Clean Air Act.

(e) This permit shield is not applicable to any change made under 326 IAC 2-7-20(b)(2) (Sections 502(b)(10) of the Clean Air Act changes) and 326 IAC 2-7-20(c)(2) (trading based on State Implementation Plan (SIP) provisions).

(f) This permit shield is not applicable to modifications eligible for group processing until after IDEM, OAQ, has issued the modifications. [326 IAC 2-7-12(c)(7)]

(g) This permit shield is not applicable to minor Part 70 permit modifications until after IDEM, OAQ, has issued the modification. [326 IAC 2-7-12(b)(8)]

B.13 Prior Permits Superseded [326 IAC 2-1.1-9.5]

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

(1) incorporated as originally stated,

(2) revised, or

(3) deleted

by this permit.

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

B.14 Deviations from Permit Requirements and Conditions [326 IAC 2-7-5(3)(C)(ii)]

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

Indiana Department of Environmental Management
Compliance Data Section, Office of Air Quality
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

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

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

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

B.15 Permit Modification, Reopening, Revocation and Reissuance, or Termination [326 IAC 2-7-5(6)(C)] [326 IAC 2-7-8(a)] [326 IAC 2-7-9]

(a) This permit may be modified, reopened, revoked and reissued, or terminated for cause. The filing of a request by the Permittee for a Part 70 permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any condition of this permit. [326 IAC 2-7-5(6)(C)] The notification by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

(b) This permit shall be reopened and revised under any of the circumstances listed in IC 13-15-7-2 or if IDEM, OAQ, determines any of the following:

(1) That this permit contains a material mistake.

(2) That inaccurate statements were made in establishing the emissions standards or other terms or conditions.

(3) That this permit must be revised or revoked to assure compliance with an applicable requirement. [326 IAC 2-7-9(a)(3)]

(c) Proceedings by IDEM, OAQ, to reopen and revise this permit shall follow the same procedures as apply to initial permit issuance and shall affect only those parts of this permit for which cause to reopen exists. Such reopening and revision shall be made as expeditiously as practicable. [326 IAC 2-7-9(b)]

(d) The reopening and revision of this permit, under 326 IAC 2-7-9(a), shall not be initiated before notice of such intent is provided to the Permittee by IDEM, OAQ, at least thirty (30) days in advance of the date this permit is to be reopened, except that IDEM, OAQ, may provide a shorter time period in the case of an emergency. [326 IAC 2-7-9(c)]

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

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

Request for renewal shall be submitted to:

Indiana Department of Environmental Management
Permits Branch, Office of Air Quality
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

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

(1) A timely renewal application is one that is:

(A) Submitted at least nine (9) months prior to the date of the expiration of this permit; and

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

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

(c) Right to Operate After Application for Renewal [326 IAC 2-7-3]
If the Permittee submits a timely and complete application for renewal of this permit, the source's failure to have a permit is not a violation of 326 IAC 2-7 until IDEM, OAQ, takes final action on the renewal application, except that this protection shall cease to apply if, subsequent to the completeness determination, the Permittee fails to submit by the deadline specified in writing by IDEM, OAQ, any additional information identified as being needed to process the application.

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

B.17 Permit Amendment or Modification [326 IAC 2-7-11] [326 IAC 2-7-12]

(a) Permit amendments and modifications are governed by the requirements of 326 IAC 2-7-11 or 326 IAC 2-7-12 whenever the Permittee seeks to amend or modify this permit.

(b) Any application requesting an amendment or modification of this permit shall be submitted to:

Indiana Department of Environmental Management
Permits Branch, Office of Air Quality
100 North Senate Avenue, P.O. Box 6015

Indianapolis, Indiana 46206-6015

Any such application shall be certified by the "responsible official" as defined by 326 IAC 2-7-1(34).

(c) The Permittee may implement administrative amendment changes addressed in the request for an administrative amendment immediately upon submittal of the request. [326 IAC 2-7-11(c)(3)]

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

B.18 Permit Revision Under Economic Incentives and Other Programs [326 IAC 2-7-5(8)] [326 IAC 2-7-12 (b)(2)]

(a) No Part 70 permit revision shall be required under any approved economic incentives, marketable Part 70 permits, emissions trading, and other similar programs or processes for changes that are provided for in a Part 70 permit.

(b) Notwithstanding 326 IAC 2-7-12(b)(1) and 326 IAC 2-7-12(c)(1), minor Part 70 permit modification procedures may be used for Part 70 modifications involving the use of economic incentives, marketable Part 70 permits, emissions trading, and other similar approaches to the extent that such minor Part 70 permit modification procedures are explicitly provided for in the applicable State Implementation Plan (SIP) or in applicable requirements promulgated or approved by the U.S. EPA.

B.19 Operational Flexibility [326 IAC 2-7-20] [326 IAC 2-7-10.5]

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

(1) The changes are not modifications under any provision of Title I of the Clean Air Act;

(2) Any preconstruction approval required by 326 IAC 2-7-10.5 has been obtained;

(3) The changes do not result in emissions which exceed the emissions allowable under this permit (whether expressed herein as a rate of emissions or in terms of total emissions);

(4) The Permittee notifies the:

Indiana Department of Environmental Management
Permits Branch, Office of Air Quality
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015

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 which document, on a rolling five (5) year basis, all such changes and emissions trading that are subject to 326 IAC 2-7-20(b), (c), or (e) and makes such records available, upon reasonable request, for public review.

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

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

(1) A brief description of the change within the source;

(2) The date on which the change will occur;

(3) Any change in emissions; and

(4) Any permit term or condition that is no longer applicable as a result of the change.

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

(c) Emission Trades [326 IAC 2-7-20(c)]
The Permittee may trade increases and decreases in emissions in 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.

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

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

B.21 Inspection and Entry [326 IAC 2-7-6] [IC 13-14-2-2][IC 13-30-3-1] [IC13-17-3-2]

Upon presentation of proper identification cards, credentials, and other documents as may be required by law, and subject to the Permittee's right under all applicable laws and regulations to assert that the information collected by the agency is confidential and entitled to be treated as such, the Permittee shall allow IDEM, OAQ, U.S. EPA, or an authorized representative to perform the following:

(a) Enter upon the Permittee's premises where a Part 70 source is located, or emissions related activity is conducted, or where records must be kept under the conditions of this permit;

(b) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, have access to and copy any records that must be kept under the conditions of this permit;

(c) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, inspect any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit;

(d) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, sample or monitor substances or parameters for the purpose of assuring compliance with this permit or applicable requirements; and

(e) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, utilize any photographic, recording, testing, monitoring, or other equipment for the purpose of assuring compliance with this permit or applicable requirements.

B.22 Transfer of Ownership or Operational Control [326 IAC 2-7-11]

(a) The Permittee must comply with the requirements of 326 IAC 2-7-11 whenever the Permittee seeks to change the ownership or operational control of the source and no other change in the permit is necessary.

(b) Any application requesting a change in the ownership or operational control of the source shall contain a written agreement containing a specific date for transfer of permit responsibility, coverage and liability between the current and new Permittee. The application shall be submitted to:

Indiana Department of Environmental Management
Permits Branch, Office of Air Quality
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

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

(c) The Permittee may implement administrative amendment changes addressed in the request for an administrative amendment immediately upon submittal of the request. [326 IAC 2-7-11(c)(3)]

B.23 Annual Fee Payment [326 IAC 2-7-19] [326 IAC 2-7-5(7)] [326 IAC 2-1.1-7]

(a) The Permittee shall pay annual fees to IDEM, OAQ, within thirty (30) calendar days of receipt of a billing. Pursuant to 326 IAC 2-7-19(b), if the Permittee does not receive a bill from IDEM, OAQ, the applicable fee is due April 1 of each year.

(b) Except as provided in 326 IAC 2-7-19(e), failure to pay may result in administrative enforcement action or revocation of this permit.

(c) The Permittee may call the following telephone numbers: 1-800-451-6027 or 317-233-4230 (ask for OAQ, Billing, Licensing, and Training Section (BLT)), to determine the appropriate permit fee.

B.24 Credible Evidence [326 IAC 2-7-5(3)][326 IAC 2-7-6][62 FR 8314]

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

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][40 CFR 52, Subpart P]

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

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

C.2 Opacity [326 IAC 5-1]

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

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

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

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

The Permittee shall not open burn any material except as provided in 326 IAC 4-1-3, 326 IAC 4-1-4 or 326 IAC 4-1-6. The previous sentence notwithstanding, the Permittee may open burn in accordance with an open burning approval issued by the Commissioner under 326 IAC 4-1-4.1. 326 IAC 4-1-3 (a)(2)(A) and (B) are not federally enforceable.

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

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

C.5 Fugitive Dust Emissions [326 IAC 6-4]

The Permittee shall not allow fugitive dust to escape beyond the property line or boundaries of the property, right-of-way, or easement on which the source is located, in a manner that would violate 326 IAC 6-4 (Fugitive Dust Emissions). 326 IAC 6-4-2(4) is not federally enforceable.

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

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

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

The Permittee shall comply with the applicable provisions of 326 IAC 1-7 (Stack Height Provisions), for all exhaust stacks through which a potential (before controls) of twenty-five (25) tons per year or more of particulate matter or sulfur dioxide is emitted. The provisions of 326 IAC 1-7-1(3), 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.8 Asbestos Abatement Projects [326 IAC 14-10] [326 IAC 18] [40 CFR 61, Subpart M]

(a) Notification requirements apply to each owner or operator. If the combined amount of regulated asbestos containing material (RACM) to be stripped, removed or disturbed is at least 260 linear feet on pipes or 160 square feet on other facility components, or at least thirty-five (35) cubic feet on all facility components, then the notification requirements of 326 IAC 14-10-3 are mandatory. All demolition projects require notification whether or not asbestos is present.

(b) The Permittee shall ensure that a written notification is sent on a form provided by the Commissioner at least ten (10) working days before asbestos stripping or removal work or before demolition begins, per 326 IAC 14-10-3, and shall update such notice as necessary, including, but not limited to the following:

(1) When the amount of affected asbestos containing material increases or decreases by at least twenty percent (20%); or

(2) If there is a change in the following:

(A) Asbestos removal or demolition start date;

(B) Removal or demolition contractor; or

(C) Waste disposal site.

(c) The Permittee shall ensure that the notice is postmarked or delivered according to the guidelines set forth in 326 IAC 14-10-3(2).

(d) The notice to be submitted shall include the information enumerated in 326 IAC 14-10-3(3).

All required notifications shall be submitted to:

Indiana Department of Environmental Management
Asbestos Section, Office of Air Quality
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

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

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

(f) Demolition and Renovation
The Permittee shall thoroughly inspect the affected facility or part of the facility where the demolition or renovation will occur for the presence of asbestos pursuant to 40 CFR 61.145(a).

(g) Indiana Accredited Asbestos Inspector
The Permittee shall comply with 326 IAC 14-10-1(a) that requires the owner or operator, prior to a renovation/demolition, to use an Indiana Accredited Asbestos Inspector to

thoroughly inspect the affected portion of the facility for the presence of asbestos. The requirement to use an Indiana Accredited Asbestos Inspector is not federally enforceable.

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

C.9 Performance Testing [326 IAC 3-6]

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

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

Indiana Department of Environmental Management
Compliance Data Section, Office of Air Quality
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015

no later than thirty-five (35) days prior to the intended test date. The protocol submitted by the Permittee does not require certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

(b) The Permittee shall notify IDEM, OAQ of the actual test date at least fourteen (14) days prior to the actual test date. The notification submitted by the Permittee does not require certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

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

Compliance Requirements [326 IAC 2-1.1-11]

C.10 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.11 Compliance Monitoring [326 IAC 2-7-5(3)] [326 IAC 2-7-6(1)]

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

Indiana Department of Environmental Management
Compliance Branch, Office of Air Quality
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015

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

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

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

C.12 Monitoring Methods [326 IAC 3] [40 CFR 60] [40 CFR 63]

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

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

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

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

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

Corrective Actions and Response Steps [326 IAC 2-7-5] [326 IAC 2-7-6]

C.14 Emergency Reduction Plans [326 IAC 1-5-2] [326 IAC 1-5-3]

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

(a) The Permittee shall prepare written emergency reduction plans (ERPs) consistent with safe operating procedures.

(b) These ERPs shall be submitted for approval to:

Indiana Department of Environmental Management
Compliance Branch, Office of Air Quality
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

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

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

(c) If the ERP is disapproved by IDEM, OAQ, the Permittee shall have an additional thirty (30) days to resolve the differences and submit an approvable ERP.

(d) These ERPs shall state those actions that will be taken, when each episode level is declared, to reduce or eliminate emissions of the appropriate air pollutants.

(e) Said ERPs shall also identify the sources of air pollutants, the approximate amount of reduction of the pollutants, and a brief description of the manner in which the reduction will be achieved.

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

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

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

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

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

The OMM Plan or Parametric Monitoring Plan and Start-up, Shutdown, and Malfunction (SSM) Plan shall be submitted within the time frames specified by the applicable 40 CFR 60/63 requirement.

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

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

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

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

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

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

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

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

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

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

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

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

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

C.17 Actions Related to Noncompliance Demonstrated by a Stack Test [326 IAC 2-7-5] [326 IAC 2-7-6]

(a) When the results of a stack test performed in conformance with Section C - Performance Testing, of this permit exceed the level specified in any condition of this permit, the Permittee shall take appropriate response actions. The Permittee shall submit a description of these response actions to IDEM, OAQ, within thirty (30) days of receipt of the test results. The Permittee shall take appropriate action to minimize excess emissions from the affected facility while the response actions are being implemented.

(b) A retest to demonstrate compliance shall be performed within one hundred twenty (120) days of receipt of the original test results. Should the Permittee demonstrate to IDEM, OAQ that retesting in one-hundred and twenty (120) days is not practicable, IDEM, OAQ may extend the retesting deadline.

(c) IDEM, OAQ reserves the authority to take any actions allowed under law in response to noncompliant stack tests.

The response action documents submitted pursuant to this condition do require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

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

C.18 Emission Statement [326 IAC 2-7-5(3)(C)(iii)] [326 IAC 2-7-5(7)] [326 IAC 2-7-19(c)] [326 IAC 2-6]

(a) Pursuant to 326 IAC 2-6-3(b)(2), starting in 2005 and every three (3) years thereafter, the Permittee shall submit by July 1 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); and

(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 purposes 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, P. O. Box 6015
Indianapolis, Indiana 46206-6015

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

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

C.19 General Record Keeping Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-6]

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

(b) Unless otherwise specified in this permit, all record keeping requirements not already legally required shall be implemented within ninety (90) days of permit issuance.

(c) If there is a reasonable possibility 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 Clean Unit, 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) Prior to commencing the construction of the "project" (as defined in 326 IAC 2-2-1 (qq) and/or 326 IAC 2-3-1 (ll)) 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)(3); and
(iv) An explanation for why the amount was excluded, and any netting calculations, if applicable.

(2) Monitor the emissions of any regulated NSR pollutant that could increase as a result of the project and that is emitted by any existing emissions unit identified in (1)(B) above; and

(3) Calculate and maintain a record of the annual emissions, in tons per year on a calendar year basis, for a period of five (5) years following resumption of regular operations after the change, or for a period of ten (10) years following resumption of regular operations after the change if the project increases the design capacity of or the potential to emit that regulated NSR pollutant at the emissions unit.

C.20 General Reporting Requirements [326 IAC 2-7-5(3)(C)] [326 IAC 2-1.1-11]

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

(b) The report required in (a) of this condition and reports required by conditions in Section D of this permit shall be submitted to:

Indiana Department of Environmental Management
Compliance Data Section, Office of Air Quality
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015

(c) Unless otherwise specified in this permit, any notice, report, or other submission required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ, on or before the date it is due.

(d) Unless otherwise specified in this permit, all reports required in Section D of this permit shall be submitted within thirty (30) days of the end of the reporting period. All reports do require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

(e) The first report shall cover the period commencing on the date of issuance of this permit and ending on the last day of the reporting period. Reporting periods are based on calendar years.

Stratospheric Ozone Protection

C.21 Compliance with 40 CFR 82 and 326 IAC 22-1

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

(a) Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices pursuant to 40 CFR 82.156.

(b) Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to 40 CFR 82.158.

(c) Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to 40 CFR 82.161.

SECTION D.1 FACILITY OPERATION CONDITIONS

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

NOTE: All capacities are considered confidential by the source and are included in a confidential OAQ file.

A-PLANT (EXISTING)

(a) Truck receiving operations, constructed in 1996, consisting of the following units, using the truck receiving/storage baghouse for control, and exhausting at stack Pt #1:

(1) Two (2) truck dumps (#1 & #2);

(2) Two (2) truck receiving conveyors (#1 & #2);

(3) Two (2) receiving legs (#1 & #2), using the truck receiving/storage baghouse and oil applications;

(4) One (1) screen;

(5) Two (2) receiving legs (#1 & #2) extending from the screen;

(6) Two (2) screening conveyors;

(7) One (1) screening leg;

(8) One (1) screening leg;

(9) Two (2) conveyors (#1 & #2) extending to storage silos and to bulk storage;

(10) Two (2) conveyors extending to bulk storage feeding and continuing to the bulk storage silos;

(11) Ten (10) silos;

(12) One (1) screening bin;

(13) Two (2) bulk storage bins;

(14) One (1) screening conveyor extending from the screening silo;

(15) One (1) screening storage conveyor;

(16) Two (2) totally enclosed screenings transfer conveyors arranged in a series, transferring screenings from the screenings storage conveyors to the screening bucket elevator;

(17) One (1) screening bucket elevator, transferring screenings from the screenings transfer conveyors to the screenings surge bin;

(18) Two (2) bulk storage return conveyors (#1 & #2) arranged in a series;

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

SECTION D.1 FACILITY OPERATION CONDITIONS (Continued)

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

(19) Two (2) conveyors from storage (#1 & #2);

(20) One (1) conveyor extending to the surge bin leg; and

(21) One (1) truck receiving/storage baghouse conveyor which transfers dust from the baghouse back to the truck receiving/storage baghouse;

(b) Rail receiving operations, constructed in 1996, consisting of the following units, using the rail receiving baghouse for control, and exhausting at stack Pt #2:

(1) One (1) rail car dump; and

(2) One (1) rail car receiving conveyor;

(c) Grain screening operations, constructed in 1996, consisting of the following units, using the screenings baghouse, and exhausting at stack Pt #5:

(1) One (1) screening surge bin;

(2) One (1) conveyor extending to the de-stoner;

(3) One (1) de-stoner, using a cyclone and the screening baghouse for control;

(4) One (1) screening grinder;

(5) Four (4) totally enclosed conveyors in a series, extending to the hull refining screener;

(6) One (1) cyclone exhausting to the screening baghouse;

(7) One (1) surge bin elevator;

(8) One (1) whole bean surge bin;

(9) One (1) dryer feed elevator;

(10) One (1) totally enclosed dryer feed conveyor, transferring beans to the dryer feed elevator;

(11) Two (2) whole bean aspirators, in parallel;

(12) One (1) dryer discharge conveyor;

(13) One (1) day bin elevator;

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

SECTION D.1 FACILITY OPERATION CONDITIONS (Continued)

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

(14) Two (2) day bins;

(15) Two (2) totally enclosed conveyors, arranged in a series;

(16) Two (2) conveyors extending from the dryer to the dryer discharge conveyor;

(17) One (1) milling elevator;

(18) One (1) product meal conveyor, identified as #1;

(19) One (1) meal surge conveyor, identified as #2;

(20) Three (3) meal storage silos;

(21) One (1) load out leg conveyor;

(22) One (1) load out meal elevator; and

(23) One (1) meal transfer conveyor;

(d) One (1) column dryer, constructed in 1996, exhausting at stack Pt #3;

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

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

D.1.1 General Provisions Relating to NSPS [326 IAC 12-1] [40 CFR Part 60, Subpart A]

The provisions of 40 CFR Part 60, Subpart A - General Provisions, which are incorporated by reference in 326 IAC 12-1, apply to the units described in Condition D.1.2 except when otherwise specified in 40 CFR Part 60, Subpart DD.

D.1.2 New Source Performance Standards(NSPS) Grain Elevators [326 IAC 12] [40 CFR Part 60, Subpart DD]

Pursuant to 40 CFR Part 60, Subpart DD (Standards of Performance for Grain Elevators), the PM emissions from the truck receiving/storage baghouse, rail receiving baghouse, and screenings baghouse which exhaust through Pt #1, #2, and #5, respectively, shall not exceed 0.01 gr/dscf and the gasses discharged shall not exceed 0 percent opacity. Additionally, fugitive emissions from the truck unloading station and rail car unloading station shall not exceed 5 percent opacity while fugitive emissions from the grain handling station shall not exceed 0 percent opacity.

D.1.3 PSD Minor Limit [326 IAC 2-2]

(a) Pursuant to CP145-4300-00035, issued July 17, 1995, the soybean processed shall be limited to less than 803,000 tons per twelve (12) consecutive month period with compliance determined at the end of each month. Thus, PM and PM10 emissions are prevented from being greater than 250 tons per year and 326 IAC 2-2 (Prevention of Significant Deterioration) and 40 CFR 52.2 are not applicable. This is the same limit as in Conditions D.2.1(a) and D.3.2(a).

(b) Pursuant to CP145-4300-00035, issued July 17, 1995, the Permittee shall be limited to the following PM emissions:

Process	Baghouse/ Cyclone	Air Flow Rate (acfm)	Grain Loading (gr/dscf)	PM Limit (lb/hr)
Grain receiving system, whole bean transfer, receiving and screening system	Pt #1	50,000	0.005	2.14
Rail unloading	Pt #2	3,300	0.005	0.141
Screening baghouse	Pt #5	35,500	0.005	1.52

D.1.4 Particulate Emissions Limitations [326 IAC 6-3-2]

Pursuant to 326 IAC 6-3-2, the particulate emissions from the column dryer shall not exceed the pound per hour emission rate calculated using the following equation:

Interpolation and extrapolation of the data for the process weight rate in excess of thirty (30) tons per hour shall be accomplished by use of the equation:

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

The individual limitation is included in a IDEM, OAQ confidential file because the process weight rate is considered confidential by the source.

D.1.5 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

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

Compliance Determination Requirements

D.1.6 Particulate

Pursuant to CP-145-4300-00035, issued July 17, 1995 and in order to demonstrate compliance with Conditions D.1.2, D.1.3, and D.1.4, the following requirements apply:

(a) The baghouses for truck receiving/storage, rail car receiving/storage, and screening shall be in operation at all times those facilities are in operation.

(b) Dust control oil shall be applied at the starting end of the truck and rail car receiving conveyors at all times these conveyors are in operation, at a rate determined at the time of PM compliance tests performed as required by CP-145-4300-00035.

(c) Fugitive emissions shall be controlled by keeping paved roads free of particulate matter with a vacuum or wet sweeper.

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

D.1.7 Visible Emissions Notations

(a) Once per shift visible emission notations of Pt #3 stack exhaust shall be performed during normal daylight operations when exhausting to the atmosphere. A trained employee shall record whether emissions are normal or abnormal.

(b) Once per day visible emission notations of Pt #1, Pt #2, and Pt #5 stack exhaust shall be performed during normal daylight operations when exhausting to the atmosphere. A trained employee shall record whether emissions are normal or abnormal.

(c) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.

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

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

(f) The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when an abnormal emission is observed. Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a deviation from this permit.

D.1.8 Parametric Monitoring

(a) The Permittee shall record the total static pressure drop across the baghouses used in conjunction with the truck receiving (Pt #1), rail receiving (Pt #2), rail screening processes (Pt #2) and grain screening (Pt #5) processes, at least once per day when the listed processes are in operation. When for any one reading, the pressure drop across the baghouses is outside the normal range of 0.5 to 8.0 inches of water or a range established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a deviation from this permit.

(b) The instrument used for determining the pressure shall comply with Section C - Pressure Gauge and Other Instrument Specifications, of this permit, shall be subject to approval by IDEM, OAQ, and shall be calibrated at least once every six (6) months or at a frequency recommended by the manufacturer.

D.1.9 Baghouse Inspections

(a) An external inspection of all bags controlling particulate emissions from the truck receiving (PT#1), rail receiving, (Pt #2), and grain screening (Pt #5) processes shall be performed at least once per calender quarter.

An internal inspection of all bags controlling particulate emissions from the truck receiving (Pt #1), rail receiving (Pt #2) and grain screening (Pt #5) processes shall be performed at least once per calender year.

Inspections required by this condition shall not be performed in consecutive months. All defective bags shall be replaced.

(b) Inspections shall also be performed whenever the respective baghouse is out of service for more than 24 consecutive hours. All defective bags shall be replaced.

D.1.10 Broken or Failed Bag Detection

In the event that bag failure has been observed:

(a) For multi-compartment units, the affected compartments will be shut down immediately until the failed units have been repaired or replaced. Within eight (8) business hours of the determination of failure, response steps according to the timetable described in the Compliance Response Plan shall be initiated. For any failure with corresponding response steps and timetable not described in the Compliance Response Plan, response

steps shall be devised within eight (8) business hours of discovery of the failure and shall include a timetable for completion. Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a deviation from this permit. If operations continue after bag failure is observed and it will be 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.

(b) For single compartment baghouses, failed units and the associated process will be shut down immediately until the failed units have been repaired or replaced. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).

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

D.1.11 Record Keeping Requirements

(a) To document compliance with Condition D.1.3(a), the Permittee shall maintain records of the quantity of soybeans processed.

(b) To document compliance with Condition D.1.7, the Permittee shall maintain records of once per shift visible emission notations of the stack exhaust from Pt #3.

(c) To document compliance with Condition D.1.7, the Permittee shall maintain records of once per day visible emission notations of the stack exhaust from Pt #1, Pt #2, and Pt #5.

(d) To document compliance with Condition D.1.8, the Permittee shall maintain records of the total pressure drop across the baghouses.

(e) To document compliance with Condition D.1.9, the Permittee shall maintain records of the results of the inspections required under Condition D.1.9.

(f) To document compliance with Condition D.1.5, the Permittee shall maintain records of any additional inspections prescribed by the Preventive Maintenance Plan.

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

D.1.12 Reporting Requirements

A quarterly summary of the information to document compliance with Condition D.1.3(a) shall be submitted to the address listed in Section C - General Reporting Requirements, of this permit, using the reporting forms located at the end of this permit, or their equivalent, within thirty (30) days after the end of the quarter being reported. The report submitted by the Permittee does require the certification by the “responsible official” as defined by 326 IAC 2-7-1(34). This is the same report as required in Conditions D.2.13 and D.3.20(a).

SECTION D.2 FACILITY OPERATION CONDITIONS

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

(e) Milling operations, constructed in 1996, consisting of the following units, using the RF filter baghouse for control, and exhausting at stack Pt #4:

(1) One (1) soy bean scale with upper and lower scale garners;

(2) Six (6) cracking rolls with primary dehulling aspirators, using the primary aspiration cyclone and RF filter baghouse for control;

(3) Three (3) conveyors extending from the primary dehulling aspirators, with a maximum combined capacity of 100 tons per hour;

(4) Three (3) surge bins;

(5) Three (3) cracked bean conditioners;

(6) Three (3) conveyors extending from the cracked bean conditioners;

(7) Three (3) impactors with secondary dehulling aspirators, using the secondary aspiration cyclones and RF filter baghouse for control;

(8) One (1) primary aspiration cyclone;

(9) One (1) secondary aspiration cyclone;

(10) Two (2) hull refining screeners, exhausting to the hull refining cyclone;

(11) Four (4) hull refining aspirators, exhausting to the hull refining cyclone;

(12) One (1) hull refining cyclone;

(13) Two (2) millfeed grinders;

(14) Three (3) surge bins;

(15) One (1) meal screen;

(16) Two (2) hammer mills;

(17) Two (2) totally enclosed sized meal conveyors, in a series; and

(18) One (1) millfeed weight belt;

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

SECTION D.2 FACILITY OPERATION CONDITIONS (Continued)

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

(f) Flaking mill operations, constructed in 1996, consisting of the following units, using the flaker aspiration baghouse, and exhausting at stack Pt #6:

(1) Nine (9) flakers; and

(2) One (1) flake collecting conveyor;

(g) One (1) flow coating material bin, using the flow coat receiving baghouse for control, and exhausting at stack Pt #11;

(h) Truck meal loadout operations, constructed in 1996, consisting of the following units, using the truck meal loadout baghouse, and exhausting at stack Pt #12:

(1) One (1) mixer, extending from the hull grinders;

(2) One (1) millfeed elevator leg;

(3) One (1) totally enclosed millfeed conveyor;

(4) Three (3) millfeed bins;

(5) One (1) millfeed weigh belt;

(6) One (1) meal conveyor extending from the coolers;

(7) One (1) DTDC unground meal conveyor extending to another set of conveyors;

(8) One (1) unground meal conveyor;

(9) One (1) feeder;

(10) One (1) flow coating material screw;

(11) One (1) mixing screw conveyor;

(12) One (1) production meal elevator;

(13) One (1) product meal conveyor #2;

(14) Six (6) meal storage bins;

(15) One (1) truck load out conveyor;

(16) One (1) truck loader; and

(17) One (1) truck scale;

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

SECTION D.2 FACILITY OPERATION CONDITIONS (Continued)

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

(i) Rail meal loadout operations, constructed in 1996, consisting of the following units, using the rail meal loadout baghouse, and exhausting at stack Pt #13:

(1) a rail load out conveyor;

(2) One (1) rail scale; and

(3) One (1) rail loader.

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

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

D.2.1 PSD Minor Limit [326 IAC 2-2] [40 CFR 52.21]

(a) Pursuant to CP145-4300-00035, issued July 17, 1995, the soybean processed shall be limited to less than 803,000 tons per twelve (12) consecutive month period with compliance determined at the end of each month. Thus, PM and PM10 emissions are prevented from being greater than 250 tons per year and 326 IAC 2-2 (Prevention of Significant Deterioration) and 40 CFR 52.2 are not applicable. This is the same limit as in Conditions D.1.3(a) and D.3.2(a).

(b) The Permittee shall also be limited to the following:

Process	Baghouse/ Cyclone	Air Flow Rate (acfm)	Grain Loading (gr/dscf)	PM Limit (lb/hr)
Milling operations	Pt #4	25,400	0.006	1.3
Flaking mill operations	Pt #6	9,600	0.005	0.41
Flow coating bin	Pt #11	600	0.005	0.026
Truck meal loadout operations	Pt #12	38,500	0.005	1.65
Rail meal loadout operations	Pt #13	2,000	0.006	0.10

D.2.2 Opacity

Pursuant to CP-A145-9458-00035, issued on June 9, 1998, visible emissions from the flow coat receiving baghouse and rail meal loadout baghouse shall not exceed 5% opacity.

D.2.3 Particulate Emissions Limitations [326 IAC 6-3-2]

Pursuant to 326 IAC 6-3-2, the particulate emissions from the milling, flake mill, truck meal loadout, and rail meal loadout operations and the flow coat receiving operation shall not exceed the pound per hour emission rate calculated using the following equations:

Interpolation of the data for the process weight rate up to thirty (30) tons per hour shall be accomplished by use of the equation:

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

or depending on the process weight rate:

Interpolation and extrapolation of the data for the process weight rate in excess of thirty (30) tons per hour shall be accomplished by use of the equation:

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

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

D.2.4 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

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

Compliance Determination Requirements

D.2.5 Particulate

Pursuant to CP-145-4300-00035, issued July 17, 1995 and in order to demonstrate compliance with Conditions D.2.1, D.2.2, and D.2.3, the following conditions apply:

(a) The RF filter, flakers aspiration, flow coating, truck meal loadout, and rail meal loadout baghouses shall be in operation at all times that their respective facilities are in operation.

(b) The primary aspiration, secondary aspiration, and hull refining cyclones shall be in operation at all times that there respective facilities are in operation.

(c) Fugitive emissions shall be controlled by keeping paved roads free of particulate matter with a vacuum or wet sweeper.

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

D.2.6 Visible Emissions Notations

(a) Once per day visible emission notations of Pt. #4, 6, 11, 12, and 13 stack exhaust shall be performed during normal daylight operations when exhausting to the atmosphere. A trained employee shall record whether emissions are normal or abnormal.

(b) Once per day visible emission notations of Pt. #4, 12, and 13 stack exhaust shall be performed during normal daylight operations when exhausting to the atmosphere. A trained employee shall record whether emissions are normal or abnormal.

(c) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.

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

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

(f) The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when an abnormal emission is observed. Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a deviation from this permit.

D.2.7 Parametric Monitoring

(a) Alarms shall be operational on all cyclone high level indicators. If an alarm sounds, the Permittee shall take reasonable response steps. Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a deviation from this permit.

(b) The Permittee shall record the total static pressure drop across the baghouses used in conjunction with the milling operations (Pt #4), flaking meal operations (Pt #6), flow coating material bin operations (Pt #11), truck meal loadout operations (Pt #12) and rail meal loadout operations (Pt #13), at least once per day when the listed processes are in operation. When for any one reading, the pressure drop across the baghouses is outside the normal range of 0.5 to 8.0 inches of water or a range established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a deviation from this permit.

(c) The instrument used for determining the pressure shall comply with Section C - Pressure Gauge and Other Instrument Specifications, of this permit, shall be subject to approval by IDEM, OAQ, and shall be calibrated at least once every six (6) months or at a frequency recommended by the manufacturer.

D.2.8 Baghouse Inspections

(a) An external inspection of all bags controlling particulate emissions from the flaking mill operations (Pt #6) shall be performed at least once per calender quarter.

An internal inspection of all bags controlling particulate emissions from the flaking mill operations (Pt #6) shall be performed at least once per calender year.

Inspections required by this condition shall not be performed in consecutive months. All defective bags shall be replaced.

(b) An inspection of all bags controlling particulate emissions from the milling (Pt #4), flow coating material bin (Pt #11), truck meal loadout (Pt #12) and rail meal loadout (Pt #13) operations shall be performed at least once per calender year. Inspections required by this condition shall not be performed in consecutive months. All defective bags shall be replaced.

(c) Inspections shall also be performed whenever the respective baghouse is out of service for more than 24 consecutive hours. All defective bags shall be replaced.

D.2.9 Broken or Failed Bag Detection

In the event that bag failure has been observed:

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

(b) For single compartment baghouses, failed units and the associated process will be shut down immediately until the failed units have been repaired or replaced. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).

D.2.10 Cyclone Inspections

An inspection shall be performed once per year of all cyclones controlling the milling operations.

D.2.11 Cyclone Failure Detection

In the event that cyclone failure has been observed:

Failed units and the associated process will be shut down immediately until the failed units have been repaired or replaced. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions). Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a deviation from this permit.

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

D.2.12 Record Keeping Requirements

(a) To document compliance with Condition D.2.1(a), the Permittee shall maintain records of the quantity of soybeans processed.

(b) To document compliance with Condition D.2.6, the Permittee shall maintain records of once per day visible emission notations of the stack exhaust from Pt #4, Pt. #6, Pt #11, Pt #12, and Pt #13.

(c) To document compliance with Condition D.2.7, the Permittee shall maintain records of the total pressure drops across the baghouses. The Permittee shall also maintain records of any alarms that sound and the response steps taken.

(d) To document compliance with Conditions D.2.8 and D.2.10, the Permittee shall maintain records of the results of the inspections required under Conditions D.2.8 and D.2.10.

(e) To document compliance with Condition D.2.4, the Permittee shall maintain records of any additional inspections prescribed by the Preventive Maintenance Plan.

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

D.2.13 Reporting Requirements

A quarterly summary of the information to document compliance with Condition D.2.1(a) shall be submitted to the address listed in Section C - General Reporting Requirements, of this permit, using the reporting forms located at the end of this permit, or their equivalent, within thirty (30) days after the end of the quarter being reported. The report submitted by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34). This is the same report as required in Conditions D.1.12 and D.3.20(a).

SECTION D.3 FACILITY OPERATION CONDITIONS

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

(j) Oil extraction and processing operations, constructed in 1996, consisting of the following units:

(1) One (1) soybean oil extractor, using a mineral oil absorber for control, and exhausting at stack Pt #9;

(2) One (1) set of evaporators, using a mineral oil absorber for control, and exhausting at stack Pt #9;

(3) One (1) desolventizer/toaster, using a mineral oil absorber for control, and exhausting at stack Pt #9;

(4) One (1) set of condensers and water separators to separate hexane and water, using a mineral oil absorber for control, and exhausting at stack Pt #9;

(5) Two (2) mineral oil absorbers, using a mineral oil absorber for control, and exhausting at stack Pt #9;

(6) One (1) spent flake conveyor extending to the meal dryer;

(7) One (1) totally enclosed seal screw conveyor, installed in a series with the slurry loader conveyor;

(8) One (1) flake conveyor extending to the slurry loader conveyor;

(9) One (1) slurry loader conveyor;

(10) One (1) hexane storage tank, identified as #1 (storage);

(11) One (1) hexane storage tank, identified as #2 (process tank);

(12) One (1) hexane storage tank, identified as #3 (work/separation);

(k) Two (2) DTDC meal dryers (#1 & #2), both constructed in 1996, using a cyclone for control and exhausting at stack Pt #7;

(l) One (1) cyclone for the control of the meal dryers, constructed in 1996, and exhausting at stack Pt #7;

(m) Two (2) DTDC meal coolers (#1 & #2), both constructed in 1996, using a cyclone for control, and exhausting at stack Pt #8;

(n) One (1) cyclone for the control of the meal coolers, constructed in 1996, and exhausting at stack Pt #8;

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

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

D.3.1 Volatile Organic Compounds (VOC) [326 IAC 8-1-6]

326 IAC 8-1-6 (New Facilities; General Reduction Requirements) applies to the soy bean extractor

processes, meal dryers, and coolers. Pursuant to CP145-4300-00035, issued July 17, 1995, and 326 IAC 8-1-6, the following is BACT and these limitations apply:

Facility	Control	VOC (Hexane) Emission Limit (including upset emissions)
Oil Extractor, Meal Desolventizer, Oil Desolventizer, Solvent Separator, Vent System	Mineral oil absorber	0.12 lb/ton of processed grain
Meal Dryers	None	0.16 lb/ton of processed grain
Meal Coolers	None	0.16 lb/ton of processed grain
Maximum soybean extraction process throughput = 803,000 tons per twelve (12) consecutive month period		

The total amount of hexane used by the source shall not exceed 1.2 pounds of hexane per ton of beans processed. This limit is based on information from the Technical Support Document for CP 145-4300-00035, issued on July 17, 1995 and is equivalent to 481.8 tons of hexane per twelve (12) consecutive month period. Compliance with this limit is equivalent to VOC emissions of less than 176.7 tons per year. Compliance with this hexane usage limit, in addition to the limits listed in the table above, will satisfy the requirements of 326 IAC 8-1-6 (BACT). In order to comply with these limits, the absorber shall operate at all times that the oil extractor process is in operation.

D.3.2 PSD Minor Limit [326 IAC 2-2][40 CFR 52.21]

(a) Pursuant to CP145-4300-00035, issued July 17, 1995, the soybean processed shall be limited to less than 803,000 tons per twelve (12) consecutive month period with compliance determined at the end of each month. Thus, PM and PM10 emissions are prevented from being greater than 250 tons per year and 326 IAC 2-2 (Prevention of Significant Deterioration) and 40 CFR 52.2 are not applicable. This is the same limit as in Conditions D.1.3(a) and D.2.1(a).

(b) The Permittee shall also be limited to the following:

Process	Baghouse/ Cyclone	Air Flow Rate (acfm)	Grain Loading (gr/dscf)	PM Limit (lb/hr)
DTDC meal dryers, #1 and #2	Pt #7	22,000	0.02	3.8
DTDC meal coolers, #1 and #2	Pt #8	22,000	0.03	5.7

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

Pursuant to 326 IAC 6-3-2, the particulate emissions from the spent flake conveyor, seal screw conveyor, flake conveyor, slurry loader conveyor, DTDC meal dryers (#1 & #2), cyclone, DTDC meal coolers (#1 & #2), and cyclone shall not exceed the pound per hour emission rate calculated using the following equation:

Interpolation and extrapolation of the data for the process weight rate in excess of thirty (30) tons per hour shall be accomplished by use of the equation:

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

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

D.3.4 Storage Tanks [326 IAC 12]

Pursuant to 326 IAC 12 as of July 1, 2000, there are no emission limitations or standards applicable to hexane storage tanks #1, #2, and #3, but there are applicable record keeping requirements listed in the Record Keeping portion of this Section.

D.3.5 General Provisions Relating to NESHAP [326 IAC 20-1] [40 CFR 63, Subpart A]

The provisions of 40 CFR 63, Subpart A - General Provisions, which are incorporated by reference in 326 IAC 20-1, apply to the oil extraction and processing operations except when otherwise specified in 40 CFR 63, Subpart GGGG.

D.3.6 Solvent Extraction for Vegetable Oil Production NESHAP [326 IAC 20] [40 CFR Part 63, Subpart GGGG]

Pursuant to 40 CFR Part 63, Subpart GGGG (National Emission Standards for Hazardous Air Pollutants: Solvent Extraction for Vegetable Oil Production), the HAP loss factor for the soybean conventional oilseed process is limited to 0.2 gallons of solvent per ton of soybean processed. Compliance with the HAP limit shall be demonstrated using the following equation found in 40 CFR 63.2840:

$$\text{Compliance Ratio} = \frac{\text{Actual HAP Loss}}{\text{Allowable HAP Loss}}$$

This equation can also be expressed as a function of total solvent loss as shown below and found in 40 CFR 63.2840:

$$\text{Compliance Ratio} = \frac{f * \text{Actual Solvent Loss}}{0.64 * \Sigma((\text{Oilseed})_i * (\text{SLF})_i)}$$

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

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

Actual Solvent Loss = Gallons of actual solvent loss during previous 12 operating months, as determined in 40 CFR 63.2853;

Oilseed = Tons of each oilseed type “i” processed during the previous 12 operating months, as shown in 40 CFR 63.2855; and

SLF = The corresponding solvent loss factor (gal/ton) for oilseed “i” as shown in Table 1 of 40 CFR 63.2840.

After 12 operating months, the source shall calculate the compliance ratio by the end of each calendar month following an operating month using the second equation. When calculating the compliance ratio, the following conditions shall be considered:

(1) If the source processes any quantity of soybean in a calendar month and the source is not operating under an initial startup period or malfunction period subject to 40 CFR 63.2850, then the source shall categorize the month as an operating month, as defined in 40 CFR 63.2872.

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

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

(4) If the source is subject to an initial startup period as defined in 40 CFR 60.2872, the source shall exclude from the compliance ratio determination any solvent and soybean information recorded for the initial startup period.

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

If the compliance ratio is less than or equal to 1.00, the source is in compliance with the HAP emission requirement for the previous operating month.

The Permittee shall be in compliance with this rule no later than 3 years after the effective date of the rule, April 12, 2001 or the date as stated in 40 CFR 63.2860. Therefore the source shall be in compliance no later than April 12, 2004 or the date as stated in 40 CFR 63.2860.

D.3.7 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

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

Compliance Determination Requirements

D.3.8 Testing Requirements [326 IAC 2-7-6(1),(6)] [326 IAC 2-1.1-11]

During the period between 30 and 36 months after issuance of this Part 70 permit, the Permittee shall perform VOC testing on the oil extraction system utilizing Methods 25 (40 CFR 60, Appendix A) for VOC or other methods as approved by the Commissioner. This test shall be repeated at least once every five years from the date of this valid compliance demonstration.

D.3.9 Particulate

Pursuant to CP-145-4300-00035, issued July 17, 1995 and in order to demonstrate compliance with Conditions D.3.2 and D.3.3. The cyclones for meal dryers and coolers shall operate at all times that those facilities are in operation.

D.3.10 Volatile Organic Compounds (VOC)

Pursuant to CP145-4300-00035, issued July 17, 1995, and in order to demonstrate compliance with Conditions D.3.1 and D.3.6, the mineral oil absorber shall operate at all times that the oil extractor process is in operation. The average mineral oil flow rate shall be determined at the time of the VOC (hexane) test.

D.3.11 VOC Compliance

Compliance with Condition D.3.1 shall be demonstrated per twelve (12) consecutive month period with compliance determined at the end of each month:

(a) The amount of VOC (hexane) used per calendar month; and

(b) The amount of soybean processed by the extraction process.

D.3.12 Compliance Requirements [326 IAC 20] [40 CFR Part 63, Subpart GGGG]

(a) Pursuant to 40 CFR 63.2850, the source shall:

(1) Pursuant to 40 CFR 63.2860, the Permittee shall submit notification of compliance status no later than 60 days after determining your initial 12 operating months compliance ratio. For an existing source, such as this source, the notification must be submitted no later than 51 calendar months after the effective date of this subpart, April 12, 2001.

(2) Develop and implement a plan for demonstrating compliance in accordance with 40 CFR 63.2851.

(3) Develop a written startup, shutdown, and malfunction (SSM) plan in accordance with the provisions in 40 CFR 63.2852.

(4) Maintain all the necessary records used to demonstrate compliance with this subpart in accordance with 40 CFR 63.2862.

(5) Submit the following reports:

(A) Annual compliance certifications in accordance with 40 CFR 63.2861(a);

(B) Periodic SSM reports in accordance with 40 CFR 63.261(c); and

(C) Immediate SSM reports in accordance with 40 CFR 63.261(d).

(6) Submit all notifications and reports and maintain all records required by the General Provisions for performance testing on the control device that destroys solvent.

(b) A malfunction as defined in 40 CFR 63.2 is a sudden, infrequent, and not reasonably preventable failure of air pollution control equipment or process equipment to function in a usual manner. If the existing source experiences an unscheduled shutdown as a result of a malfunction, continues to operate during a malfunction (including the period reasonable necessary to correct the malfunction), or starts up after a shutdown resulting from a malfunction, then the source must meet the requirements associated with one of two compliance options. Routine or scheduled process startups and shutdowns resulting from, but not limited to, market demands, maintenance activities, and switching types of oilseed processed, are not startups or shutdowns resulting from a malfunction and, therefore do not qualify for this provision. Within 15 days of the beginning date of the malfunction, the source must choose to comply with one of the following options listed:

(1) Normal operation. The source must meet all of the requirements listed in 40 CFR 63.2850(a) and (b).

(2) Malfunction period. Throughout the malfunction period, the source must meet all of the requirements listed in 40 CFR 63.2850(a) and Table 1 of 40 CFR 63.2850 for sources operating during a malfunction period. At the end of the malfunction period, the source must then meet all of the requirements of Table 1 of 40 CFR 63.2850 for sources under normal operation.

D.3.13 Compliance Plan [326IAC 20] [40 CFR Part 63, Subpart GGGG]

(a) Pursuant to 40 CFR 63.2851, the source must develop and implement a written plan for demonstrating compliance that provides the detailed procedures the source will follow to monitor and record data necessary for demonstrating compliance with this subpart. Procedures followed for quantifying solvent loss from the source and amount of oilseed processed vary form source to source because of site-specific factors such as equipment design characteristics and operating conditions. Typical procedures include one or more accurate measurement methods such as weigh scales, volumetric displacement, and material mass balance. Because the industry does not have a uniform set of procedures, the source must develop and implement a site-specific plan for demonstrating compliance before the compliance date for the source. The source shall keep the plan on-site and readily available as long as the source is operational. If the owner makes any changes to the plan for demonstrating compliance, the previous versions of the plan must be kept and made readily available for inspection for at least 5 years after each revision. The plan for demonstrating compliance must include the following:

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

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

(3) A detailed description of all methods of measurement the source will use to determine solvent losses, HAP content of solvent, and the tons of each type of

oilseed processed;

(4) When each measurement will be made;

(5) Examples of each calculation the source will use to determine compliance status. Include examples how to convert data measured with one parameter to the terms for use in compliance determination;

(6) Example logs of how data will be recorded; and

(7) A plan to ensure that the data continue to meet compliance demonstration needs.

(b) IDEM, OAQ may require the source to revise the plan for demonstrating compliance. IDEM, OAQ may require reasonable revisions if the procedures lack detail, are inconsistent or do not accurately determine solvent loss, HAP content of the solvent, or the tons of soybean processed.

D.3.14 Startup, Shutdown, and Malfunction Plan [326 IAC 20][40 CFR Part 63, Subpart GGGG]

Pursuant to 40 CFR 63.2852, the source must develop a written SSM plan in accordance with 40 CFR 63.6(e)(3) and implement the plan, when applicable. The SSM plan must be completed before the compliance date for the source. The source must keep the SSM plan on-site and readily available as long as the source is operational. The SSM plan provides detailed procedures for operating and maintaining the source to minimize emissions during a qualifying SSM event for which the source chooses the 40 CFR 63.2580(e)(2) malfunction period, or the 40 CFR 63.2850(c)(2) or (d)(2) initial startup period. The SSM plan must specify a program of corrective action for malfunctioning process and air pollution control equipment and reflect the best practices now in use by the industry to minimize emissions. Some or all of the procedure may come form plans the source has developed for other purposes such as a Standard Operating Procedure manual or an Occupational Safety and Health Administration Process Safety Management plan. To qualify as a SSM plan, other such plans must meet all the applicable requirements of this NESHAP.

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

D.3.15 Visible Emissions Notations

(a) Once per day visible emission notations of Pt. #7 and 8 stack exhaust shall be performed during normal daylight operations when exhausting to the atmosphere. A trained employee shall record whether emissions are normal or abnormal.

(b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.

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

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

(e) The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when an abnormal emission is observed. Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a deviation from this permit.

D.3.16 VOC Monitoring

In order to demonstrate compliance with Conditions D.3.1 and D.3.6, the following monitoring

requirements apply:

(a) The Permittee shall monitor and record the mineral oil flow rate at least once per day. The Preventive Maintenance Plan for the absorber shall contain troubleshooting contingency and corrective actions for when the flow rate readings are outside of the normal range for any one reading.

(b) The instruments used for determining the flow rate shall be subject to approval by IDEM, OAQ, and shall be calibrated at least once per year.

(c) The gauge employed to take the mineral oil flow across the scrubber shall have a scale such that the expected normal reading shall be no less than 20 percent of full scale and be accurate within + 10% of full scale reading. The instrument shall be quality assured and maintained as specified by the vendor.

(d) In the event that the absorber's failure has been observed, an inspection will be conducted. Based upon the findings of the inspection, any corrective actions will be devised within eight (8) hours of discovery and will include a timetable for completion.

(e) The operating temperatures of the mineral oil absorber shall be established in the Compliance Monitoring Plan. When the process is in operation, an electronic data management system (EDMS) shall record the instantaneous temperature on a frequency of not less that every two hours. As an alternate to installing an EDMS, manual readings shall be taken every two hours.

(f) The mineral oil to the mineral-oil-stripping column shall be kept at a minimum temperature of 160°F or a temperature, as established in the Compliance Response Plan, for adequate stripping of the absorbed hexane from the oil. When the process is in operation, an electronic data management system (EDMS) shall record the instantaneous temperature on a frequency of not less than every two hours. As an alternate to installing an EDMS, manual readings shall be taken every two hours.

D.3.17 Cyclone Inspections

The Permittee shall monitor the high level indicators on all cyclones. An external inspection shall be performed each calender quarter of all cyclones controlling the listed processes. An internal inspection shall be performed each calendar year of all cyclones controlling the listed processes.

D.3.18 Cyclone Failure Detection

In the event that cyclone failure has been observed:

Failed units and the associated process will be shut down immediately until the failed units have been repaired or replaced. Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a deviation from this permit. If operations continue after bag failure is observed and it will be 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.

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

D.3.19 Record Keeping Requirements

(a) To document compliance with Conditions D.3.1 and D.3.2(a), the Permittee shall maintain records of the quantity of soybeans processed and the amount of VOC (hexane) used per calendar month.

(b) To document compliance with Condition D.3.4, the Permittee shall maintain a record showing the dimension of the storage vessel and an analysis showing the capacity of the storage vessel.

(c) To document compliance with Conditions D.3.6, D.3.12, D.3.13, and D.3.14, and with 40 CFR Part 63, Subpart GGGG, the Permittee shall comply with the following:

(1) The following information must be kept on-site and readily available as long as the source is operational:

(A) Compliance Plan; and

(B) Startup, Shutdown, and Malfunction Plan.

(2) For the solvent inventory, the following information must be recorded in accordance with the source plan for demonstrating compliance:

(A) Dates that define each operating status period during a calendar month;

(B) The operating status of the source such as normal operation, nonoperating, initial startup period, malfunction period, or exempt operation for each recorded time interval;

(C) The gallons of extraction solvent in the inventory on the beginning and ending dates of each normal operating period;

(D) The gallons of all extraction solvent received, purchased, and recovered during each calendar month;

(E) All extraction solvent inventory adjustments, additions or subtractions. The owner must document the reason for the adjustment and justify the quantity of the adjustment;

(F) The total solvent loss for each calendar month, regardless of the source operating status; and

(G) The actual solvent loss in gallons for each operating month.

(3) For the weighted average volume fraction of HAP in the extraction solvent, the owner must record the following items:

(A) The gallons of extraction solvent received in each delivery;
(B) The volume fraction of each HAP exceeding 1 percent by volume in each delivery of extraction solvent; and

(C) The weighted average volume fraction of HAP in extraction solvent received since the end of the last operating month as determined in accordance with 40 CFR 63.2854(b)(2).

(4) Record the following items, in accordance with the source plan for demonstrating compliance:

(A) The dates that define each operating period. The dates must be the same as the dates entered for the extraction solvent inventory.

(B) The operating status of the source such as normal operation, nonoperating, initial startup period, malfunction period, or exempt operation for each recorded time interval. On the log for each type of

listed oilseed that is being processed during a normal operating period, the owner shall record which type of listed oilseed is being processed in addition to the source operating status.

(C) The soybean inventory for the soybean being processed on the beginning and ending dates of each normal operating period.

(D) The tons of soybean received at the affected source each normal operating period.

(E) All soybean inventory adjustments, additions, or subtractions for normal operating periods. The owner must document the reason for adjustment and justify the quantity of the adjustment.

(F) The tons of soybean processed during each operating month.

(5) After the source has processed soybean for 12 operating months, and is not operating during an initial startup period as described in 40 CFR 63.2850(c)(2) or (d)(2), or a malfunction period as described in 40 CFR 63.2850(e)(2), the following items must be recorded by the end of the calendar month following each operating month:

(A) The 12 operating months rolling sum of the actual solvent loss in gallons as described in 40 CFR 63.2853(c).

(B) The weighted average volume fraction of HAP in extraction solvent received for the previous 12 operating months as described in 40 CFR 63.2854(b)(3).

(C) The 12 operating months rolling sum of soybean processes at the affected source in tons as described in 40 CFR 6355(c).

(D) A determination of the compliance ratio. Using the values from 40 CFR 63.2853, 63.2854, 63.2855 and Table 1 of 40 CFR 63.2840, calculate the compliance ratio using equation 2 of 40 CFR 63.2840.

(E) A statement of whether the source is in compliance with all of the requirements of the subpart. This includes a determination of whether the source has met all of the applicable requirements of 40 CFR 63.2850.

(6) For each SSM event subject to an initial startup period as described in 40 CFR 63.2850(c)(2) or (d)(2), or a malfunction period as described in 40 CFR 63.2850(e)(2), the following items shall be recorded by the end of the calendar month following each month in which the initial startup period or malfunction period occurred:

(A) A description and date of the SSM event, its duration, and reason it qualifies as an initial startup or malfunction;

(B) An estimate of the solvent loss in gallons for the duration of the initial startup or malfunction period with supporting documentation; and

(C) A checklist or other mechanism to indicate whether the SSM plan was followed during the initial startup or malfunction period.

(d) To document compliance with Condition D.3.15, the Permittee shall maintain records of visible emission notations of the stack exhaust once per shift.

(e) To document compliance with Condition D.3.17, the Permittee shall maintain records of the following:

(1) The mineral oil flow rate;

(2) The operating temperature of the mineral oil absorber; and

(3) The temperature of the stripping column.

(f) To document compliance with Condition D.3.17, the Permittee shall maintain records of the results of the inspections required under Condition D.3.18.

(a) To document compliance with Condition D.3.7, the Permittee shall maintain records of any additional inspections prescribed by the Preventive Maintenance Plan.

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

D.3.20 Reporting Requirements

(a) A quarterly summary of the information to document compliance with Conditions D.3.1 and D.3.2(a) shall be submitted to the address listed in Section C - General Reporting Requirements, of this permit, using the reporting forms located at the end of this permit, or their equivalent, within thirty (30) days after the end of the quarter being reported. The report submitted by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34). This is the same report as required in Conditions D.1.12 and D.2.13.

(b) To document compliance with 40 CFR Part 63, Subpart GGGG, the Permittee must submit annual compliance certifications. The first annual compliance certification is due no later than 60 days after determining the initial 12 operating months compliance ratio. For an existing source, such as this source, the notification must be submitted no later than 50 calendar months after the effective date of this subpart, April 12, 2001 or the date as stated in 40 CFR 63.2860. Each subsequent annual compliance certification is due 12 months after the previous annual compliance certification. The annual compliance certification provides the compliance status for each operating month during the 12 calendar months period ending 60 days prior to the date on which the report is due. The annual certification shall include the following information:

(1) The name and address of the owner or operator.
(2) The physical address of the vegetable oil production process.

(3) Each listed oilseed type processed during the 12 calendar months period covered by the report.

(4) Each HAP identified under 40 CFR 63.2854(a) as being present in concentrations greater than 1 percent by volume in each delivery of solvent received during the 12 calendar months period covered by the report.

(5) A statement designating the source as major source of HAP.

(6) A compliance certification to indicate whether the source was in compliance for each compliance determination made during the 12 calendar period covered by the report. For each such compliance determination, the source must include a certification of the following items:

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

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

(c) To document compliance with 40 CFR Part 63, Subpart GGGG, the Permittee shall submit a deviation notification report for each compliance determination made in which the ratio exceeded 1.00 as determined under 40 CFR 63.2840(c). The report shall be submitted by the end or each month following the calendar month in which the deviation was determined. The deviation notification shall include the following:

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

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

(3) Each listed oilseed type processed during the 12 calendar months period for which a deviation was determined.

(4) The compliance ratio comprising the deviation. The owner may reduce the frequency of submittal of the deviation notification report if the IDEM, OAQ does not object as provided in 40 CFR 63.10(e)(3)(iii).

(d) To document compliance with 40 CFR Part 63, Subpart GGGG, if the Permittee chooses to operate the source under an initial startup period subject to 40 CFR 63.2850(c)(2) ro (d)(2) or a malfunction period subject to 40 CFR 63.2850(e)(2), the Permittee shall submit a periodic SSM report by the end of the calendar month following each month in which the initial startup period or malfunction period occurred. The periodic SSM report shall include the following:

(1) The name, title, and signature of the source's responsible official who is certifying that the report accurately states all actions taken during the initial startup or malfunction period were consistent with the SSM plan.

(2) A description of the events occurring during the time period, the date and duration of the events, and the reason the time interval qualifies as an initial startup period or malfunction period.

(3) An estimate of the solvent loss during the initial startup or malfunction period with supporting documentation.

(e) To document compliance with 40 CFR Part 63, Subpart GGGG, if the Permittee handles a SSM during an initial startup period subject to 40 CFR 63.2850(c)(2) ro (d)(2) or a malfunction period subject to 40 CFR 63.2850(e)(2) differently from procedures in the SSM plan, then the Permittee shall submit an immediate SSM report. Immediate SSM reports consist of a telephone call or facsimile transmission to the responsible agency within 2 working days after starting actions inconsistent with the SSM plan, followed by a letter within 7 working days after the end of the event. The letter shall include the following:

(1) The name, title, and signature of the source's responsible official who is certifying that the accuracy of the report, an explanation of the event, and the reasons for not following the SSM plan.

(2) A description and date of the SSM event, its duration, and reason it qualifies as a SSM.

(3) An estimate of the solvent loss for the duration of the SSM event with supporting documentation.

SECTION D.4 FACILITY OPERATION CONDITIONS

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

(o) One (1) boiler, identified as the Murray boiler, constructed in 1996, firing natural gas, vegetable oil, #2 distillate fuel oil, or blends of vegetable oil and #2 distillate fuel oil, rated at 96 million Btu per hour;

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

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

D.4.1 Particulate [326 IAC 6-2-4]

326 IAC 6-2-4 (Emission Limitations for Sources of Indirect Heating) applies to the Murray boiler because it was constructed in 1996 which is after the applicability date of September 21, 1983. Pursuant to this rule, the particulate emissions from the boiler shall be limited to 0.32 pounds per million Btu heat input.

D.4.2 Sulfur Dioxide (SO_2) and Opacity [326 IAC 7-1.1-1] [326 IAC 12-1] [40 CFR 60, Subpart Dc]

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

(a) The SO_2 emissions from the Murray boiler shall not exceed five tenths (0.5) pounds per million Btu heat input, when firing fuel oil; or

(b) The sulfur content of the fuel oil shall not exceed five-tenths percent (0.5%) by weight. [40 CFR 60.42c(d)]

Pursuant to 40 CFR 60.43c(c), when combusting fuel oil, the Murray boiler is limited to less than twenty percent (20%) opacity (6-minute average), except for one 6-minute period per hour of not more than twenty-seven percent (27%) opacity.

Pursuant to 40 CFR 60 Subpart Dc, the fuel oil sulfur content and the opacity limit applies at all times, including periods of startup, shutdown, and malfunction.

D.4.3 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for this facility and its control device.

Compliance Determination Requirements

D.4.4 Sulfur Dioxide Emissions and Sulfur Content

Pursuant to 40 CFR 60, Subpart Dc, the Permittee shall demonstrate compliance utilizing one of the following options:

(a) Providing vendor analysis of fuel oil delivered, if accompanied by a certification; or

(b) Analyzing the fuel oil sample to determine the sulfur content of the fuel oil via the procedures in 40 CFR 60, Appendix A, Method 19.

(1) Fuel oil samples may be collected from the fuel oil tank immediately after the fuel oil tank is filled and before any fuel oil is combusted; and

(2) If a partially empty fuel oil tank is refilled, a new sample and analysis would be required upon filling.

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

D.4.5 Visible Emissions Notations

(a) Visible emission notations of the boiler stack exhaust shall be performed once per shift during normal daylight operations when combusting fuel oil and/or vegetable oil and exhausting to the atmosphere. A trained employee shall record whether emissions are normal or abnormal.

(b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.

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

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

(e) The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when an abnormal emission is observed. Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a deviation from this permit.

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

D.4.6 Record Keeping Requirements

(a) To document compliance with Condition D.4.2, the Permittee shall maintain records in accordance with (1) through (7) below. Note that pursuant to 40 CFR 60 Subpart Dc, the fuel oil sulfur limit applies at all times including periods of startup, shutdown, and malfunction.

(1) Calendar dates covered in the compliance determination period;

(2) Actual fuel oil usage since last compliance determination period and equivalent sulfur dioxide emissions;

(3) To certify compliance when burning natural gas only, the Permittee shall maintain records of fuel used.

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

(4) Fuel supplier certifications;

(5) The name of the fuel supplier;

(6) The percentage of distillate fuel oil in the fuel; and

(7) A statement from the fuel supplier that certifies the sulfur content of the fuel oil.

The Permittee shall retain records of all recording/monitoring data and support information for a period of five (5) years, or longer if specified elsewhere in this permit, from the date of the monitoring sample, measurement, or report. Support information includes all

calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by this permit.

(b) To document compliance with Condition D.4.5, the Permittee shall maintain records of visible emission notations of the boiler stack exhaust once per shift.

(c) To document compliance with Condition D.4.3, the Permittee shall maintain records of any additional inspections prescribed by the Preventive Maintenance Plan.

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

D.4.7 Reporting Requirements

(a) A certification, signed by the responsible official, that certifies all of the fuels combusted during the period. The natural gas-fired boiler certification does require the certification by the “responsible official” as defined by 326 IAC 2-7-1(34);

(b) The natural gas boiler certification shall be submitted to the address listed in Section C - General Reporting Requirements, of this permit, using the reporting forms located at the end of this permit, or their equivalent, within thirty (30) days after the end of the six (6) month period being reported.

(c) A semi-annual summary of the information to document compliance with Condition D.4.2 in any compliance period when No. 2 fuel oil was combusted, and the natural gas fired boiler certification, shall be submitted to the address listed in Section C - General Reporting Requirements, using the reporting forms located at the end of this permit, or their equivalent, within thirty (30) days after the end of the six (6) month period being reported. The report submitted by the Permittee does require the certification by the “responsible official” as defined by 326 IAC 2-7-1(34).

SECTION D.5 FACILITY OPERATION CONDITIONS

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

(p) One (1) vegetable oil refinery process, constructed in 2002, consisting of crude vegetable oil receiving, storage, filtration, and degumming equipment; lecithin drying and processing equipment; oil refining, deodorizing, and filtration equipment; bulk oil handling, blending, storage, and loadout facilities; and including the following equipment:

(1) One (1) storage silo, identified as R-101, equipped with a baghouse for particulate matter control, exhausting to Stack R-101;

(2) One (1) surge tank, identified as R-102, equipped with a baghouse for particulate matter control, exhausting to Stack R-102;

(3) One (1) storage silo, identified as R-103, equipped with a baghouse for particulate matter control, exhausting to Stack R-103;

(4) One (1) surge tank, identified as R-104, equipped with a baghouse for particulate matter control, exhausting to Stack R-104;

(5) One (1) storage silo, identified as R-105, equipped with a baghouse for particulate matter control, exhausting to Stack R-105;

(6) One (1) surge tank, identified as R-106, equipped with a baghouse for particulate matter control, exhausting to Stack R-106; and

(7) One (1) natural gas-fired boiler, identified as R-107, exhausting to Stack R-107.

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

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

D.5.1 PSD Minor Limit [326 IAC 2-2][40 CFR 52.21]

The Permittee shall be limited by the following:

Process	Baghouse/ Cyclone	Air Flow Rate (acfm)	Grain Loading (gr/dscf)	PM Limit (lb/hr)
R-101 through R-106	R-101 - R-106	--	--	1.029 (combined)

This limit, along with the limits included in Sections D.1, D.2, D.3, and D.4, ensure that the source total PM emissions remain below 250 tons per year. Therefore, 326 IAC 2-2 (Prevention of Significant Deterioration) and 40 CFR 52.21 are not applicable.

D.5.2 Particulate Emissions Limitations [326 IAC 6-3-2]

Pursuant to CP145-14642-00035, issued October 4, 2001, and 326 IAC 6-3-2, the allowable particulate emission rate from the three (3) storage silos and three (3) surge tanks, identified as R-101 through R-106, shall not exceed the pound per hour limitations calculated with the following equation:

Interpolation of the data for profess weight rate up to thirty (30) tons per hour shall be accomplished by use of the equation:

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

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

D.5.3 Particulate [326 IAC 6-2-4]

Pursuant to CP145-14642-00035, issued October 4, 2001, and 326 IAC 6-2-4 (Emission Limitations for Sources of Indirect Heating), the particulate emissions from R-107 shall be limited to less than 0.316 pounds per million British thermal units per hour.

D.5.4 Hazardous Air Pollutants (HAPs) [326 IAC 2-4.1]

Pursuant to CP145-14642-00035, issued October 4, 2001, the total amount of off-site soybean oil processed by the vegetable oil refinery shall be limited to less than 347,220,000 pounds per twelve (12) consecutive month period with compliance determined at the end of each month. This is equivalent to limiting the emissions of a single HAP to less than ten (10) tons per year. Therefore, the requirements of 326 IAC 2-4.1-1 (New Source Toxics Control) do not apply.

D.5.5 Volatile Organic Compounds (VOC) [326 IAC 8-1-6]

Pursuant to CP145-14642-00035, issued October 4, 2001, the total amount of off-site soybean oil processed by the vegetable oil refinery shall be limited to less than 347,220,000 pounds per twelve (12) consecutive month period with compliance determined at the end of each month. This is equivalent to limiting the emissions of VOC to less than twenty-five (25) tons per year. Therefore, the requirements of 326 IAC 8-1-6 (New Facilities: General Reduction Requirements) do not apply.

Compliance Determination Requirements

D.5.6 Particulate Matter (PM)

Pursuant to CP145-14642-00035, issued October 4, 2001, and in order to comply with Condition D.5.1 and D.5.2, the baghouses for PM control shall be in operation and control emissions from the storage silos and surge tanks, identified as R-101 through R-106, at all times when the storage silos and surge tanks are in operation.

D.5.7 HAP Emissions

Compliance with Condition D.5.4 shall be demonstrated within 30 days of the end of each month based on the total single HAP emissions for the twelve (12) month period.

D.5.8 VOC Emissions

Compliance with Condition D.5.5 shall be demonstrated within 30 days of the end of each month based on the total VOC emissions for the twelve (12) month period.

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

D.5.9 Record Keeping Requirements

(a) To document compliance with Conditions D.5.4 and D.5.5, the Permittee shall maintain monthly records of the amount of off-site soybean oil processed by the vegetable oil refinery.

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

D.5.10 Reporting Requirements

A quarterly summary of the information to document compliance with Conditions D.5.4 and D.5.5 shall be submitted to the address listed in Section C - General Reporting Requirements, of this permit, using the reporting forms located at the end of this permit, or their equivalent, within thirty (30) days after the end of the quarter being reported. The report submitted by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

SECTION D.6 FACILITY CONDITIONS

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

(q) One (1) pelletizing mill, labeled as part of EU# 26, with a maximum rate of 36,000 lbs raw material per hour (18 tph) where air stream from mill does not vent to atmosphere but instead passes on to pellet cooler;

(r) One (1) pellet cooler, labeled as part of EU# 26, with a maximum rate of 36,000 lbs raw material per hour (18 tph), using a high efficiency cyclone control device with a rating of 0.01 grains/dscf and 7,500 acfm at stack Pt#26;

(s) One (1) totally enclosed drag conveyor, with a maximum rate of 15 tons per hour;

(t) One (1) totally enclosed "L" path conveyor, with a maximum rate of 15 tons per hour; and

(u) One (1) bucket leg, with a maximum rate of 15 tons per hour.

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

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

D.6.1 Particulate Emissions Limitations [326 IAC 6-3-2] [40 CFR 52.21, Part P]

Pursuant to 326 IAC 6-3-2 the Particulate emissions from the Pellet Cooling facility shall be limited to 28.4 pounds per hour at a process weight rate of 36,000 pounds per hour:

The pounds per hour limitation was calculated with the following equation:

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

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

D.6.2 PSD Minor Limit [326 IAC 2-2]

Pursuant to 326 IAC 2-2 the Particulate Matter (PM) and particulate matter with aerodynamic diameter less than ten (10) micrometers (PM_{10}) emissions from the emission unit, EU#26 shall be limited to 2.74 and 1.37 lbs/hour, respectively.

Compliance with this condition is necessary in order to limit emissions to less than 25 tons/year PM and less than 15 tons/year PM_{10} and will render the requirements of 326 IAC 2-2 not applicable to the Pellet Mill and Cooler emission unit, EU#26.

D.6.3 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for this facility and its control device.

Compliance Determination Requirements

D.6.4 Particulate Control

In order to comply with D.6.1 and D.6.2, the cyclone for particulate control shall be in operation and control emissions from the Pellet Cooler at all times that the Pellet Mill/Cooler process is in operation.

D.6.5 Testing Requirements [326 IAC 2-7-6(1),(6)] [326 IAC 2-1.1-11]

Within 60 days after achieving the maximum production rate for emission unit EU#26 but no later than 180 days after startup of the emission unit, the Permittee shall perform PM and PM_{10} testing in order to determine compliance with D.6.1 and D.6.2 utilizing methods as approved by the Commissioner, and furnish the Commissioner a written report of the results of such performance tests.

These tests shall be repeated at least once every five (5) years from the date of this valid compliance demonstration. PM_{10} includes filterable and condensable PM_{10}. Testing shall be conducted in accordance with Section C – Performance Testing.

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

D.6.6 Visible Emissions Notations

(a) Once per day visible emission notations of the Pellet Cooler stack exhaust shall be performed during normal daylight operations when exhausting to the atmosphere. A trained employee shall record whether emissions are normal or abnormal.

(b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.

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

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

(e) The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when an abnormal emission is observed. Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a deviation from this permit.

D.6.7 Cyclone Inspections

An external inspection shall be performed each calendar quarter and an internal inspection shall be performed each calendar year of the cyclone controlling the Pellet Mill /Cooler process. Inspections required by this condition shall not be performed during consecutive months.

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

D.6.8 Record Keeping Requirements

(a) To document compliance with Condition D.6.6, the Permittee shall maintain records of visible emission notations of the Pellet Cooling stack exhaust once per day.

(b) To document compliance with Condition D.6.7, the Permittee shall maintain records of the results of the inspections required under Condition D.6.7.

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

SECTION D.7 FACILITY OPERATION CONDITIONS

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

(v) The following emission units used in truck receiving operations, using the truck receiving/storage baghouse (identified as #17) for control, and exhausting through stack Pt #1:

(1) Two (2) screens, identified as #4, with a total maximum throughput rate of 1,210 tons per hour.

(2) One (1) transfer system, identified as #9a, with a maximum throughput rate of 1,150 tons per hour, transferring soybeans from the bulk storage elevator to the bulk storage silos.

(3) One (1) enclosed whole bean conveyor, identified as #16a, with a maximum throughput rate of 340 tons per hour, conveying beans from the surge bin leg to the whole bean surge silo (#28a).

(4) One (1) whole bean surge silo, identified as #28a, with a maximum storage capacity of 40,000 bushels.

(5) One (1) enclosed conveyor, identified as #17a, with a maximum throughput rate of 40 tons per hour, conveying the dust from the truck receiving/storage baghouse (#17) to the screening leg.

(6) One (1) new bean screening screw conveyor, identified as #1a, with a maximum throughput rate of 36 tons per hour, transferring soybeans from the screening system (#4) to the screening leg baghouse.

(w) The following emission units used in meal processing operations, using the meal grinding baghouse (identified as #39b) for control, and exhausting through stack Pt #24:

(1) One (1) enclosed meal screener feeder conveyor, identified as #74a, with a maximum throughput rate of 80 tons per hour, conveying the meal produced to the meal screen system.

(2) One (1) enclosed meal grinder feed conveyor, identified as #75a, with a maximum throughput rate of 80 tons per hour, conveying the meal from the meal screen system to meal feeders.

(3) One (1) meal grinding system, identified as #76, consisting of three (3) hammer mills, with a total maximum process rate of 80 tons per hour. This process rate is limited by the maximum throughput rate of the conveyors.

(4) Two (2) enclosed sized meal conveyors, identified as #78a, with a total maximum throughput rate of 80 tons per hour, conveying the ground meal from the meal grinding system (#76) to the meal handling system.

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

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

D.7.1 General Provisions Relating to NSPS [326 IAC 12-1] [40 CFR Part 60, Subpart A]

The provisions of 40 CFR Part 60, Subpart A - General Provisions, which are incorporated by reference in 326 IAC 12-1, apply to the screens, associated grain conveying equipment, and the

truck receiving/storage baghouse (#17), except when otherwise specified in 40 CFR Part 60, Subpart DD.

D.7.2 New Source Performance Standards(NSPS) Grain Elevators [326 IAC 12] [40 CFR Part 60, Subpart DD]

Pursuant to 40 CFR Part 60, Subpart DD (Standards of Performance for Grain Elevators), the emissions from the screens, associated grain conveying equipment, and the truck receiving/storage baghouse (#17) shall not exceed the following limits:

(a) 0.01 gr/dscf of PM; and

(b) 0 percent opacity.

D.7.3 Prevention of Significant Deterioration [326 IAC 2-2]

(a) Pursuant to 326 IAC 2-2 and CP #145-4300-00035, issued July 17, 1995, the PM and PM10 emissions from the truck receiving storage baghouse (Baghouse #17) each shall not exceed 0.01 gr/dscf. Based on the design flow rate of 38,500 cfm of the baghouse #17, this is equivalent to 3.30 lbs/hr and 14.5 tons/yr of PM/PM10 emissions.

(b) Pursuant to 326 IAC 2-2, the PM and PM10 emissions from the meal grinding baghouse (Baghouse #39b) each shall not exceed 0.01 gr/dscf. Based on the design flow rate of 38,400 cfm of the baghouse #39b, this is equivalent to 3.29 lbs/hr and 14.4 tons/yr of PM/PM10 emissions.

Therefore, the PM and PM10 emissions from this modification are each limited to less than 250 tons/yr and the requirements of 326 IAC 2-2 (PSD) are not applicable.

D.7.4 Particulate [326 IAC 6-3-2]

Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), the allowable particulate emissions from each of the conveyor and facility of the meal grinding operation shall not exceed 49.1 pounds per hour when operating at a process weight rate of 80 tons per hour.

The pounds per hour limitation was calculated with the following equation:

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

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

D.7.5 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for this facility and its control device.

Compliance Determination Requirements

D.7.6 PM and PM_{10} Control

In order to comply with Conditions D.7.2, D.7.3, and D.7.4, the truck receiving/storage baghouse (#17) and the meal grinding baghouse (#39b) for particulate control shall be in operation and control emissions from the truck receiving and meal processing operations at all times that the truck receiving and meal processing units are in operation.

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

D.7.7 Visible Emissions Notations

(a) Visible emission notations of stack exhausts from the truck receiving/storage baghouse (#17) and the meal grinding baghouse (#39b) 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) The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when an abnormal emission is observed. Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a deviation from this permit.

D.7.8 Parametric Monitoring

The Permittee shall record the total static pressure drop across the truck receiving/storage baghouse (#17) and the meal grinding baghouse (#39b), at least once per day when the listed processes are in operation. When for any one reading, the pressure drop across the baghouses is outside the normal range of 0.5 to 6.0 inches of water or a range established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a deviation from this permit.

The instrument used for determining the pressure shall comply with Section C - Pressure Gauge and Other Instrument Specifications, of this permit, shall be subject to approval by IDEM, OAQ, and shall be calibrated at least once every six (6) months or at a frequency recommended by the manufacturer.

D.7.9 Baghouse Inspections

(a) An inspection of all bags controlling particulate emissions from the truck receiving/storage process (identified as #17; Pt #1) and meal grinding process (identified as #39b; Pt #24) shall be performed at least once per calender year.

Inspections required by this condition shall not be performed in consecutive months. All defective bags shall be replaced.

(b) Inspections shall also be performed whenever the respective baghouse is out of service for more than 24 consecutive hours. All defective bags shall be replaced.

D.7.10 Broken or Failed Bag Detection

In the event that bag failure has been observed:

(a) For multi-compartment units, the affected compartments will be shut down immediately until the failed units have been repaired or replaced. Operations may continue only if there are no visible emissions or if the event qualifies as an emergency and the Permittee satisfies the emergency provisions of this permit (Section C - Emergency Provisions). Within eight (8) business hours of the determination of failure, response steps according to the timetable described in the Compliance Response Plan shall be initiated. For any failure with corresponding response steps and timetable not described in the Compliance Response Plan, response steps shall be devised within eight (8) business hours of discovery of the failure and shall include a timetable for completion. Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a deviation from this permit.

(b) For single compartment baghouses, failed units and the associated process will be shut down immediately until the failed units have been repaired or replaced. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).

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

D.7.11 Record Keeping Requirements

(a) To document compliance with Condition D.7.7, the Permittee shall maintain once per day records of visible emission notations of the baghouse stack exhausts.

(b) To document compliance with Condition D.7.8, the Permittee shall maintain once per day records of the total pressure drop across the baghouses.

(c) To document compliance with Condition D.7.9, the Permittee shall maintain records of the results of the inspections required under Condition D.7.9.

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

SECTION D.8 FACILITY CONDITIONS

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

A-PLANT (NEW EQUIPMENT)

(x) One (1) totally enclosed screening conveyor, identified as #1a.

(y) One (1) screening leg, identified as #7a, controlled by truck receiving /storage baghouse, and exhausting at stack Pt #1.

(z) One (1) conveyor to bulk storage feeding to bulk storage silos, identified as #9a, controlled by truck receiving /storage baghouse, and exhausting at stack Pt #1.

(aa) One (1) screening bin, identified as #10a.

(ab) One (1) screening from storage conveyor after screening conveyor, identified as #13a.

(ac) One (1) conveyor to surge bin leg, identified as #16a.

(ad) One (1) truck receiving /storage baghouse conveyor, identified as #17a, transferring the dust from the baghouse to the screenings leg directly aspirated to the truck receiving /storage baghouse.

(ae) Three (3) totally enclosed conveyors to hull refining screener, identified as #25a.

(af) One (1) totally enclosed dryer feed conveyor to the dryer feed elevator, identified as #29a.

(ag) One (1) hull refining screener, identified as #48a, exhausting to hull refining cyclone.

(ah) One (1) hull refining aspirator, identified as #49a, exhausting to hull refining cyclone.

(ai) One (1) totally enclosed millfeed conveyor to storage, identified as #53a.

(aj) One (1) millfeed elevator, identified as #54a, controlled by millfeed baghouse, and exhausting at stack Pt #16.

(ak) One (1) seal screw conveyor, identified as #61a.

(al) One (1) totally enclosed meal screen feeder conveyor, identified as #74a.

(am) Two (2) totally enclosed sized meal conveyors, identified as #78a.

B-PLANT

(an) One (1) aspirator between conveyor from storage and surge bin leg, aspirated to truck receiving /storage baghouse, identified as #1b, and exhausting at stack Pt #1.

(ao) One (1) totally enclosed millfeed conveyor to storage, identified as #2b.

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

SECTION D.8 FACILITY CONDITIONS Continued...

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

(ap) One (1) millfeed elevator controlled by millfeed baghouse, identified as #3b, and exhausting at stack Pt #16.

(aq) One (1) aspirator between milling leg and bean scale, identified as #4b, aspirated to milling baghouse, and exhausting at stack Pt #4.

(ar) One (1) totally enclosed hull collecting conveyor, identified as #5b, feeding to "B" plant hull refining screener.

(as) One (1) "B" plant whole bean surge bin #2, identified as #6b, controlled by a cyclone, and the screening baghouse, and exhausting at stack Pt #5.

(at) One (1) hull refining cyclone, identified as #7b, discharging to the screening baghouse, and exhausting at stack Pt #5.

(au) One (1) "B" plant whole soybean feed bucket elevator, identified as #8b, controlled by hull refining cyclone, and the screening baghouse, and exhausting at stack Pt #5.

(av) One (1) "B" plant totally enclosed soybean feed conveyor, identified as #9b.

(aw) One (1) "B" plant whole bean aspiration, identified as #10b , controlled by the screening baghouse, and exhausting at stack Pt #5.

(ax) One (1) "B" plant bean weighing system, identified as #11b, controlled by the screening baghouse, and exhausting at stack Pt #5.

(ay) One (1)"B" plant totally enclosed millfeed grinding conveyor, identified as #12b, controlled by the screening baghouse, and exhausting at stack Pt #5.

(az) One (1) "B" plant hull refining screener, identified as #13b, controlled by a hull refining cyclone, and the screening baghouse, and exhausting at stack Pt #5.

(ba) One (1) "B" plant aspirator, identified as #14b, controlled by a hull refining cyclone, and the screening baghouse, and exhausting at stack Pt #5.

(bb) One (1) "B" plant totally enclosed feed conveyor, identified as #15b.

(bc) One (1) set of "B" plant bean heaters, identified as #16b, controlled by a bean heater cyclone, and exhausting at stack Pt # 18A.

(bd) One (1) totally enclosed "B" plant soybean conveyor (feeding the jet dryers), identified as #17b, controlled by a bean heater cyclone, and exhausting at stack Pt # 18A.

(be) One (1) set of "B" plant jet dryers, identified as #18b, controlled by a dryer cyclone, and exhausting at stack Pt # 18A.

(bf) One (1) "B" plant bean heaters cyclone, identified as #19b, exhausting at stack Pt # 18A.

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

SECTION D.8 FACILITY CONDITIONS Continued...

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

(bg) One (1) "B" plant bean dryers cyclone, identified as #20b, exhausting at stack Pt # 18A.

(bh) One (1) "B" plant hulloosenators, identified as #21b, maximum total capacity of 127.5 tons per hour.

(gi) One (1) set of "B" plant cascade dryers, identified as #22b.

(bj) One (1) set of "B" plant cracking rolls, identified as #23b.

(bk) One (1) set of "B" plant cascade coolers, identified as #24b, controlled by a ccc cyclone, and exhausting at stack Pt # 18A.

(bl) Three (3) "B" plant totally enclosed after cascade coolers conveyors (feeding the flakers), identified as #25b, controlled by a ccc cyclone, and exhausting at stack Pt # 18A.

(bm) One (1) "B" plant ccc cyclone, identified as #26b, exhausting at stack Pt # 18A.

(bn) One (1) set of "B" plant flakers, identified as #27b, controlled by a flakers baghouse, and exhausting at stack Pt # 19.

(bo) One (1) "B" plant flakers baghouse, identified as #28b, exhausting at stack Pt # 19.

(bp) One (1) "B" plant totally enclosed flake conveyor (feeding the seal conveyor), identified as #28b.

(bq) One (1) "B" plant totally enclosed seal screw conveyor (feeding the slurry loader conveyor), identified as #29b.

(br) One (1) "B" plant totally enclosed slurry loader conveyor (feeding the extractor), identified as #30b.

(bs) One (1) "B" plant soybean oil extractor, identified as #31b, controlled by two (2) mineral oil absorbers, and exhausted at stack Pt. # 23.

(bt) A set of "B" plant evaporators, identified as #32b, controlled by two mineral oil absorbers, and exhausted at stack Pt. # 23.

(bu) A set of "B" plant condensers and water separator to separate hexane and water, identified as #33b, controlled by two mineral oil absorbers, and exhausted at stack Pt. # 23.

(bv) Two (2) "B" plant mineral oil absorbers, identified as #34b, exhausting at stack Pt. # 23.

(bw) One (1) totally enclosed "B" plant spent flake conveyor, identified as #35b.

(bx) Two (2) "B" plant meal dryers (#3 & #4), identified as #36b, controlled by one (1) dryer cyclone, and exhausting at stack Pt. # 21.

(by) Two (2) "B" plant meal coolers (#3 & #4), identified as #37b, controlled by one (1) cooler cyclone, and exhausting at stack Pt. # 22.
(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

SECTION D.8 FACILITY CONDITIONS Continued...

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

(bz) Four (4) "B" plant totally enclosed unground meal conveyors in series (meal screening system), identified as #38b.

(ca) One (1) meal grinding baghouse, identified as #39b, exhausting at stack Pt #24.)

(cb) One (1) boiler, identified as boiler no. 2, firing natural gas, vegetable oil, #2 distillate fuel oil, or blends of vegetable oil and #2 distillate fuel oil, rated at 240 million Btu per hour, controlled by low NOx burners and flue gas recirculation, and exhausting at stack Pt. # 20.

(cc) One (1) screening leg, identified as #41b, transferring screenings from the screenings transfer conveyors to the screening surge bin.

(cd) One (1) totally enclosed dryer feed conveyor, identified as #42b, transferring beans to the dryer feed elevator, controlled by screening baghouse, and exhausting at stack Pt #5.

(ce) One (1) day bin, identified as #43b.

(cf) One (1) meal screen feeder conveyor, identified as #44b.

(cg) One (1) rail meal loadout conveyor, identified as #45b, controlled by "B" plant rail loadout baghouse. and exhausting at stack Pt #17.

(ch) One (1) "B" plant rail loader, identified as #46b, controlled by "B" plant rail loadout baghouse and exhausting at stack Pt #17.

(ci) One (1) rail scale, identified as #47b.

(cj) One (1) "B" plant rail loadout baghouse, identified as #48b, exhausting at stack Pt #17.

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

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

D.8.1 General Provisions Relating to NSPS [326 IAC 12-1] [40 CFR Part 60, Subpart A]

The provisions of 40 CFR Part 60, Subpart A - General Provisions, which are incorporated by reference in 326 IAC 12-1, apply to the facility described in this section except when otherwise specified in 40 CFR Part 60, Subpart Db.

D.8.2 New Source Performance Standard (NSPS) [326 IAC 12] [40 CFR 60, Subpart Db]

Pursuant to SSM 145-9618-00035, 326 IAC 12 and 40 CFR 60, Subpart Db (Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units):

(a) Pursuant to 40 CFR 60.43b(f) (Opacity Limitation), on and after the date on which the initial performance test is completed or required to be completed under 40 CFR 60.8, whichever date comes first, the Permittee shall not cause to be discharged into the atmosphere from the Boiler no. 2, any gases that exhibit greater than twenty percent (20%) opacity (6-minute average) except for one 6-minute period per hour of not more than twenty-seven percent (27%) opacity. The opacity standards apply at all times, except during period of startup, shutdown, or malfunction.

(b) Pursuant to 40 CFR 60.44b(a) (Nitrogen Oxides Limitation) the Permittee shall not cause to be discharged into the atmosphere from the boiler #2 any gases that contain nitrogen oxides (expressed as NO_2) in excess of 0.20 lb/million Btu. The nitrogen oxides standard shall apply at all times including the period of start-up, shutdown, or malfunction emissions.

(c) Pursuant to 40 CFR 60.42b(d) and 326 IAC 7-1.1-2 (Sulfur Dioxides Limitation), on and after the date on which the initial performance test is completed or required to be completed under 40 CFR 60.8, whichever date comes first:

(1) The SO_2 emissions from boiler no. 2 shall not exceed five tenths (0.5) pounds per million Btu heat input; or

(2) The sulfur content of the fuel oil shall not exceed five-tenths percent (0.5%) by weight.[40 CFR 60.8]

(3) The SO_2 emission limits and fuel oil sulfur limits apply at all times, including period of startup, shutdown, and malfunction. [40 CFR 60.8]

D.8.3 General Provisions Relating to NESHAP [326 IAC 20-1] [40 CFR 63, Subpart A]

The provisions of 40 CFR 63, Subpart A - General Provisions, which are incorporated by reference in 326 IAC 20-1, apply to the oil extraction and processing operations listed in this section except when otherwise specified in 40 CFR 63, Subpart GGGG.

D.8.4 Solvent Extraction for Vegetable Oil Production NESHAP [326 IAC 20] [40 CFR Part 63, Subpart GGGG]

The B plant is subject to 40 CFR 63.2840 with a compliance date of the startup date of the B-plant. The solvent (hexane) loss factor from the soybean process shall not exceed 0.2 gallons per ton of soybeans processed. The Permittee shall:

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

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

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

(3) Compliance Ratio = [f * Actual Solvent Loss]/
0.64[{(Soybean processed)C * (SLFC)}] (Eq. 2)

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

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

Actual Solvent Loss = Gallons of actual solvent loss during previous 12 operating months, as determined in 40 CFR 63.2853

SLFC = 0.2 gals/ton (for A and B plants) as listed in Table 1 of 40 CFR 63.2840

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

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

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

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

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

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

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

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

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

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

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

D.8.5 PSD Minor Limit [326 IAC 2-2]

(a) The soybean processed by the "B" plant shall be limited to 1,065,538 tons per 12-month period, rolled on a monthly basis. This soybean limitation is required to limit the potential to emit of PM and PM-10 to 225 and 218 tons per 12-month period, rolled on a monthly basis, respectively.

During the first twelve (12) months after issuance of this Significant Source Modification, the total amount of soybeans processed shall be limited such that the total soybean processed divided by the accumulated months of operation shall not exceed 88,795 tons up to a maximum total of 1,065,538 tons for the first twelve (12) months.

(b) The following facilities' PM and PM-10 emissions rates shall be limited as follows:

Process	Baghouse/ Cyclone	Air Flow Rate (acfm)	Grain Loading (gr/dscf)	PM Limit (lb/hr)	PM-10 Limit (Filterable) (lb/hr)
Truck unloading #1 and #2 fugitives				7.29	2.39
Rail unloading fugitives				0.64	0.156
B Bean Heater	Baghouse Pt #25	18,000	0.004	0.62	0.62
Hot cracking and dehulling system, B-plant	Four Cyclones Pt #18	121,800	0.025	25.8	25.8
Soybean Flaking, B-Plant	Baghouse Pt #19	16,000	0.005	0.69	0.69
DTDC meal dryers #1 and #2, B-Plant	Cyclone Pt #21	38,000	0.014	4.56	4.56
DTDC meal coolers #1 and #2, B-Plant	Cyclone Pt #21	22,000	0.068	12.82	12.82
Meal sizing system	Baghouse Pt. #24	30,000	0.005	1.29	1.29
Boiler 2				10.5 tpy	10.5 tpy

(c) The amount of distillate oil with 0.5% sulfur maximum, combusted in the boiler no. 2 shall be limited to 6,343,949 gallons per 12 month period rolled on a monthly basis. This distillate oil limitation is required to limit the potential to emit of SO_2 emissions of 249 tons per 12 month period, rolled on a monthly basis.

(d) The amount of vegetable oil combusted in boiler no. 2 shall not exceed 4,540,000 gallons per 12 month period rolled on a monthly basis. When using blends of vegetable oil and distillate fuel oil, only the volume of fuel which is vegetable oil shall count toward the usage limit.

(e) When burning vegetable oil, or blends of vegetable oil and distillate fuel oil, PM_{10} emissions shall not exceed 0.016 pounds per million Btu heat input. This condition, along with the vegetable oil usage limit, is required to limit the potential to emit PM_{10} emissions from boiler no. 2 to less than 10.5 tons per 12 month period, rolled on a monthly basis.

Compliance with these limits makes 326 IAC 2-2 (Prevention of Significant Deterioration) not applicable for PM, PM_{10} and SO_2 emissions. This will also satisfy the rule 326 IAC 6-3-2.

D.8.6 Particulate Emission Limitations [326 IAC 6-3-2]

Pursuant to 326 IAC 6-3-2, the particulate emissions from the screen grinding, whole surge bins loading and unloading, whole bean aspiration, whole bean weighting, hot cracking and dehulling system (B-plant), flaking system (B-plant), soybean millfeed grinding system (B-plant), DTDC meal dryers (B-plant), DTDC meal coolers (B-plant), meal sizing system, flow coat unloading system, and meal and millfeed storage and loadout system shall not exceed the pound per hour emission rate calculated using the following equations:

Interpolation of the data for the process weight rate up to thirty (30) tons per hour shall be accomplished by use of the equation:

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

or depending on the process weight rate:

Interpolation and extrapolation of the data for the process weight rate in excess of thirty (30) tons per hour shall be accomplished by use of the equation:

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

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

D.8.7 Particulate Emission Limitations for Sources of Indirect Heating [326 IAC 6-2-4]

Pursuant to 326 IAC 6-2-4, the PM emissions from Boiler No. 2 shall not exceed 0.24 pound per million Btu heat input (lb/MMBtu). This limitation was calculated using the following equation:

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

Where Pt = emission rate limit (lbs/MMBtu)
Q = total source capacity (336 MMBtu/hr)

D.8.8 Best Available Control Technology (BACT) [326 IAC 8-1-6]

Pursuant to 326 IAC 2-2-3 (BACT Requirements):

(a) the Permittee shall control volatile organic compound (VOC) emissions from the combined "A" and "B" soybean oil extraction processes as follows:

Facility	Control	Emission Limit
Oil extractor "B" plant	Mineral oil absorber system	0.069 lb VOC/ton soybean
Meal dryers "B" plant	None	0.152 lb VOC/ton soybean
Meal coolers "B" plant	None	0.152 lb VOC/ton soybean
Combined "A" and "B" plants	First Year	0.20 gal VOC/ton soybean processed
	After first year	0.19 gal VOC/ton soybean processed
Maximum annual soybean processed by combined "A" and "B" plants		1,901,996 tons per year

(b) BACT for fugitive hexane loss will include an annual leak check in accordance with Bunge's standard operating procedures accompanied by continuous monitoring of the process area by flammable gas monitors. The leak check will be completed on the affected system after hexane is reintroduced into the system.

For emergency repairs and/or maintenance completed between annual maintenance shutdowns, a leak check will be completed on the affected.

(1) The Permittee shall immediately tag all detected leaks with a weatherproof and readily visible identification tag with a distinct number. Once a leaking component is detected, first-attempt repairs must be done within five days and be completed within 15 days of detecting the leaking components. If the repair can not be accomplished within 15 days, then the Permittee shall send a notice of inability to repair to the OAQ within 20 days of detecting the leak. The notice must be received by the Technical Support and Modeling, Office of Air Quality, 100 North Senate Avenue, P. O. Box 6015, Indianapolis, Indiana 46206-6015 within 20 days after the leak was detected. At a minimum the notice shall include the following:

(A) Equipment, operator, and instrument identification number, and date of leak detection

(B) Measured concentration (ppm) and background (ppm)

(C) Leak identification number associated with the corresponding tag

(D) Reason of inability to repair within 5 to 15 days of detection

Compliance Determination Requirements

D.8.9 Testing Requirements [326 IAC 2-7-6(1), (6)] [326 IAC 2-1.1-11], [326 IAC 2-2], and [326 IAC 3]

(a) Pursuant to SSM 145-9618-00035, 40 CFR 60, subpart Db and 326 IAC 2-2, compliance tests, tests for PM and PM-10, and opacity observations shall be performed for the affected facilities, as shown below, to comply with Conditions D.8.2 and D.8.5(a) and (b) within 60 days after achieving maximum production rate, but no later than 180 days after initial start up. PM-10 includes filterable and condensible PM-10. Testing shall be conducted in accordance with Section C- Performance Testing.

Facilities	Pollutant/Opacity
Receiving baghouses (PT # 01 & 02)	PM/PM-10/Opacity
Screening baghouse (PT # 05)	PM/PM-10/Opacity
Boiler #2	Opacity/NOx

(b) Pursuant to 40 CFR 60, Subpart Db, the Permittee shall determine one of the following:

(1) Provide vendor analysis of fuel oil delivered, if accompanied by a certification; or

(2) Analyze the fuel oil sample to determine the sulfur content of the fuel oil via the procedures in 40 CFR 60, Appendix A, Method 19.

(A) Fuel oil samples may be collected from the fuel oil tank immediately after the fuel oil tank is filled and before any fuel oil is combusted; and

(B) If a partially empty fuel oil tank is refilled, a new sample and analysis would be required upon filling.

(c) Pursuant to 326 IAC 3 (Construction and Operating Permit Requirements), the Permittee shall develop a representative stack testing plan which identifies the method in which emissions from the following sources shall be evaluated to satisfy the Operation Condition No. D.8.5(a), and (b), within 18 months of startup. The facilities listed in (a) above may be proposed as representative facilities.

Facilities	Pollutant
Hot cracking and dehulling system, B-plant (Pt# 18)	PM, PM_{10}
Soybean flaking, B-plant (PT# 19)	PM, PM_{10}
Mineral oil absorber (PT# 23)	VOC, Mineral oil flow rate
DTDC meal dryers #1 & #2, B-plant (PT# 21)	PM, PM_{10}

DTDC meal coolers #1 & #2, B-plant (PT# 22)	PM, PM_{10}
Meal sizing system (PT# 24)	PM, PM_{10}
Millfeed and meal storage and truck loadout (PT# 12)	PM, PM_{10}
Rail loadout #1 (PT# 13)	PM, PM_{10}

The Permittee shall submit the stack test plan to IDEM after the entire source has achieved a successful start up. This plan shall be reviewed and approved by IDEM. This plan shall outline the measures to be taken to meet the permitted emission rates and shall provide that the emission units meet the limits for the facilities except the facilities in (a) be completed within 18 months of the date of the entire source start-up. The stack tests shall be performed for the facilities in (a) within 60 days after achieving maximum production rate, but no later than 180 days after initial start up of the facilities in (a).

(d) In order to demonstrate compliance with Condition D.8.5(e), no later than 180 days from the commencement of vegetable oil combustion, the Permittee shall conduct performance tests for PM_{10} on boiler no. 2 during vegetable oil combustion, and furnish the Commissioner a written report of the results of such performance tests. Testing shall be conducted in accordance with Section C - Performance Testing.

(e) Whenever the results of the stack test performed exceed the level specified in this permit, appropriate corrective actions shall be implemented within thirty (30) days of receipt of the test results. These actions shall be implemented immediately unless notified by OAQ that they are acceptable. The Permittee shall minimize emissions while the corrective actions are being implemented.

(f) Whenever the results of the stack test performed exceed the level specified in this permit, a second test shall be performed within 120 days. Failure of the second test to meet the limits may be grounds for immediate revocation of this permit to operate the affected facility.

D.8.10 Particulate

In order to comply with Condition D.8.5(a) and (b), the bag houses and cyclones for particulate matter control shall be in operation and control emissions from the associated facilities at all times when the processes are in operation.

D.8.11 Volatile Organic Compounds (VOC)

In order to comply with Condition D.8.4, the absorber shall be operated at all times the oil extractor process is in operation at an average mineral oil flow rate to be determined at the time of the VOC (hexane) test.

D.8.12 Opacity [326 IAC 12] [40 CFR 60.48]

Pursuant to 40 CFR 60.48b (a) the Permittee shall install, calibrate, maintain, and operate a continuous monitoring system for measuring the opacity of emissions discharged to the atmosphere from the boiler no. 2 at any time that the boiler is combusting fuel oil no. 2.

D.8.13 Nitrogen Oxides Emissions (NOx) [326 IAC 12] [40 CFR 60.48]

Pursuant to 40 CFR 60.48b (b), (c), (d), and (e), the Permittee shall install, calibrate, maintain, and operate a continuous monitoring system for measuring nitrogen oxides emissions discharged to the atmosphere from the boiler no. 2.

or

Pursuant to 40 CFR 60.48b (g) the Permittee shall monitor steam generating unit operating conditions and predict nitrogen dioxides emission rates as specified in a plan submitted pursuant to 40 CFR 60.49b(c).

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

D.8.14 Visible Emissions Notations

(a) Visible emission notations of the stack exhaust Pt# 1, 4, 5, 16, 17, 18, 19, 20, 21, 22, 23 and 24 shall be performed once per day during normal daylight operations when exhausting to the atmosphere. A trained employee shall record whether emissions are normal or abnormal.

(b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.

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

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

(e) The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when an abnormal emission is observed. Failure to take response steps in accordance with Section C - Compliance Monitoring Plan - Failure to Take Response Steps, shall be considered a deviation from this permit.

(f) The Permittee shall take response actions anytime that there is an abnormal visible emission from control devices or high level of material on cyclones.

D.8.15 Parametric Monitoring

(a) The Permittee shall record the total static pressure drop across the bag houses used in conjunction with the associated processes, at least once per day when the associated processes are in operation when venting to the atmosphere. When for any one reading, the pressure drop across the baghouse is outside the normal range of 1.0 and 6.0 inches of water or a range established during the latest stack test the Permittee shall take reasonable response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a deviation from this permit.

The instrument used for determining the pressure shall comply with Section C - Pressure Gauge and Other Instrument Specifications, of this permit, shall be subject to approval by IDEM, OAQ, and shall be calibrated at least once every six (6) months.

(b) The Permittee shall take response actions anytime that there is an abnormal reading of pressure drop from baghouses.

D.8.16 Baghouse Inspections

An inspection shall be performed once each year of all bags controlling the associated processes when venting to the atmosphere. All defective bags shall be replaced.

D.8.17 Broken or Failed Bag Detection

In the event that bag failure has been observed:

(a) For multi-compartment units, the affected compartments will be shut down immediately until the failed units have been repaired or replaced. Operations may continue only if there are no visible emissions or if the event qualifies as an emergency and the Permittee satisfies the emergency provisions of this permit (Section B- Emergency Provisions).

Within eight (8) business hours of the determination of failure, response steps according to the timetable described in the Compliance Response Plan shall be initiated. For any failure with corresponding response steps and timetable not described in the Compliance Response Plan, response steps shall be devised within eight (8) business hours of discovery of the failure and shall include a timetable for completion. Failure to take response steps in accordance with Section C - Compliance Response Plan Preparation, Implementation, Records, and Reports, shall be considered a deviation from this permit.

(b) For single compartment bag houses, failed units and the associated process will be shut down immediately until the failed units have been repaired or replaced. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).

D.8.18 Cyclone Inspections

An inspection shall be performed once each year of all cyclones controlling the associated processes when venting to the atmosphere. Inspections are optional when venting to the in doors.

D.8.19 Cyclone Failure Detection

In the event that cyclone failure has been observed: Failed units and the associated process will be shut down immediately until the failed units have been repaired or replaced. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions). Failure to take response steps in accordance with Section C - Compliance Response Plan Preparation, Implementation, Records, and Reports, shall be considered a deviation from this permit.

D.8.20 VOC Monitoring

In order to demonstrate compliance with Conditions D.8.4 and D.8.8, the following monitoring requirements apply:

(a) The Permittee shall monitor and record the mineral oil flow rate at least once per day. The Preventive Maintenance Plan for the absorber shall contain troubleshooting contingency and corrective actions for when the flow rate readings are outside of the normal range for any one reading.

(b) The instruments used for determining the flow rate shall be subject to approval by IDEM, OAQ, and shall be calibrated at least once every six (6) months.

(c) The gauge employed to take the mineral oil flow across the scrubber shall have a scale such that the expected normal reading shall be no less than 20 percent of full scale and be accurate within + 10% of full scale reading. The instrument shall be quality assured and maintained as specified by the vendor.

(d) In the event that the absorber's failure has been observed, an inspection will be conducted. Based upon the findings of the inspection, any corrective actions will be devised within eight (8) hours of discovery and will include a timetable for completion.

(e) The operating temperatures of the mineral oil absorber shall be established in the Compliance Monitoring Plan. When the process is in operation, an electronic data management system (EDMS) shall record the instantaneous temperature on a frequency of not less that every two hours. As an alternate to installing an EDMS, manual readings shall be taken every two hours.

(f) The mineral oil to the mineral-oil-stripping column shall be kept at a minimum temperature of 180°F for adequate stripping of the absorbed hexane from the oil. When the process is in operation, an electronic data management system (EDMS) shall record the instantaneous temperature on a frequency of not less than every two hours. As an

alternate to installing an EDMS, manual readings shall be taken every two hours.

D.8.21 Opacity Monitoring [326 IAC 12] [40 CFR 60, Subpart Db]

Pursuant to 40 CFR 60.48b (a), Subpart Db, the following requirements shall be met:

(a) The continuous monitoring system shall be operated and data recorded during all periods of operation of the boiler no. 2 during the times in which fuel oil no. 2 is combusted only except for continuous monitoring system breakdowns and repairs. Data shall be recorded during calibration checks, and zero and span adjustments.

(b) The procedures under 40 CFR 60.13 shall be followed for installation, evaluation, and operation of the continuous monitoring systems.

D.8.22 Nitrogen Oxides (NOx) Monitoring [326 IAC 12] [40 CFR 60, Subpart Db]

Pursuant to 40 CFR 60.48b (b), (c), (d), and (e), the following requirements shall be met:

(a) The Permittee shall install, calibrate, maintain, and operate a continuous monitoring system for measuring nitrogen oxides emissions discharged to the atmosphere from the boiler no. 2, and record the output of the system.

(b) The continuous monitoring system shall be operated and data recorded during all periods of operation of the boiler no. 2 except for continuous monitoring system breakdowns and repairs. Data shall be recorded during calibration checks, and zero and span adjustments.

(c) The 1-hour average nitrogen oxides emission rates measured by the continuous nitrogen oxides monitor shall be expressed in ng/J or lb/million Btu heat input and shall be used to calculate the average emission rates. The 1-hour averages shall be calculated using the data points required under 40 CFR 60.13 (b). At least two data points must be used to calculate each 1-hour average.

(d) The procedures under 40 CFR 60.13 shall be followed for installation, evaluation, and operation of the continuous monitoring systems. The span value for natural gas combustion, the nitrogen oxides span values shall be 500 ppm. All span values shall be rounded to the nearest 500 ppm.

(e) When nitrogen oxides emission data are not obtained because of continuous monitoring system break-downs, repairs, calibration checks and zero and span adjustments, emission data will be obtained by using standby monitoring systems, Method 7, Method 7A, or other approved reference methods to provide emission data for a minimum of 75 percent of the operating hours in each steam generating unit operating day, in at least 22 out of 30 successive steam generating unit operating days.

or

In the event Bunge decides to meet the nitrogen oxides limit through 40 CFR 60.48b(g), the established parameter shall be monitored to provide emission data for a minimum of 75 percent of the operating hours in each steam generating unit operating day, in at least 22 out of 30 successive steam generating unit operating days.

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

D.8.23 Record Keeping Requirements

Pursuant to 326 IAC 2-1-3(i) and 326 IAC 2-2:

(a) The Permittee shall maintain records of the soybean processed by B-Plant and fuel oil #2 burned in boiler #2.

(b) The Permittee shall maintain records of the opacity, and NOx emissions of the boiler no. 2 as required in 40 CFR 60.49b(f), and (g) respectively.

(c) The Permittee shall maintain records of the sulfur content in fuel oil #2 burned in boiler #2.

(d) The Permittee shall maintain records from combined plants “A” and ”B” of the following:

(1) The amount of VOC (hexane) used per calendar month by the combined plants "A" and "B";

(2) The amounts of soybean processed by the combined plants "A" and "B"; and

(3) The gallons of hexane used per ton of soybean processed by the combined plants "A" and "B"

(e) The Permittee shall maintain records of the following:

(1) Equipment inspected;

(2) Date of inspection; and

(3) Determination of whether a leak was detected.

If a leak is detected, the Permittee shall record the following information.

(A) The equipment, operator, and instrument identification number;

(B) Measured concentration;

(C) Leak identification number associated with the corresponding tag;

(D) Date of repair;

(E) Reason for non-repair if unable to repair within 5 to 15 days of detection;

(F) Maintenance recheck if repaired-date, concentration, background, and

(G) Any appropriate comments.

(f) Pursuant to 40 CFR Part 63, Subpart GGGG, the Permittee shall maintain records of the following:

(1) For the first twelve months, record the items in paragraphs 40 CFR 63.2862(c)(1) through (c)(3).

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

(3) For each event subject to an initial startup period as described in 40 CFR 63.2850(c)(2) or (d)(2), or a malfunction period as described in 40 CFR 63.2850(e)(2), record the items in 40 CFR 63286(e)(1) through (3).

(4) The Permittee shall keep the compliance response plan and SSM plan on-site and readily available as long as the source is operational.

(g) To document compliance with Condition D.8.18, the Permittee shall maintain records of visible emission notations of the stack exhaust (Pt #1, 4, 5, 16, 17, 18, 19, 20, 21, 22, 23 and 24) once per day.

(h) The Permittee shall maintain records of the following:

(1) Once per day records of the following operational parameters during normal operation when venting to the atmosphere:

(A) Inlet and outlet differential static pressure; and

(B) Cleaning cycle operation.

(i) The Permittee shall maintain records of the results of the inspections of baghouses and cyclones.

(j) The Permittee shall maintain records of the events of the cyclone failure detection and the dates the failed units were repaired or replaced.

(k) The Permittee shall maintain records of the followings:

(1) The daily record of the mineral oil flow rate of the B-plant absorber

(2) The events of the B-plant absorber's failure, findings of the inspections subsequent to B-plant absorber's failure, the corrective actions taken, and the time table for completion

(3) The operating temperatures of the B-plant mineral oil absorber

(4) The temperature of the B-plant mineral oil stripping column

(l) The Permittee shall maintain records of the opacity monitor data.

(m) The Permittee shall maintain records of the nitrogen oxides monitor data.

(n) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit, and 40 CFR 63.2862.

D.8.24 Reporting Requirements

(a) A quarterly summary of the information to meet the condition D.8.5(a) and (c) shall be submitted to the address listed in Section C - General Reporting Requirements, of this permit, using the reporting forms located at the end of this permit, or their equivalent, within thirty (30) days after the end of the quarter being reported. The report submitted by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

(b) Annual compliance certification -The first annual compliance certification for NESHAP requirements of 40 CFR 63, Part GGGG, is due 12 calendar months after the source submits the notification of compliance status. Each annual compliance certification is due 12 calendar months after the previous annual compliance certification. The annual compliance certification provides the compliance status for each operating month during the 12 calendar months period ending 60 days prior to the date on which the report is due. The report should include the information in paragraphs 40 CFR 63.2661(a)(1) through (6).

(c) Deviation notification report - Submit a deviation notification report for each determination in which the compliance ratio exceeds 1.0 as determined under 40 CFR 63.2840(c).

Submit the deviation report by the end of the month following the calendar month in which you determined the deviation. The deviation notification report must include the items in paragraphs 40 CFR 63.2861(b)(1) through (4).

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

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

(f) Pursuant to 326 IAC 7-2-(a)(3), the applicant shall submit reports of calendar month for annual average sulfur content or sulfur dioxide rate in pounds per million Btu, heat content, fuel consumption upon request to the Office of Air Quality.

(g) The Permittee shall report the data of the opacity and NOx emissions as required in 40 CFR 60.49b.

SECTION D.9 FACILITY CONDITIONS

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

(a) Blowdown for any of the following: sight glass; boiler; compressors; pumps; and cooling tower;

(b) Replacement or repair of electrostatic precipitators, bags in baghouses and filters in other air filtration equipment;

(c) Emission units with PM and PM10 emissions less than five (5) tons per year, SO_2, NOx, 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:

(1) One (1) #2 fuel oil storage tank, identified as #4, with a capacity of 3,958 cubic feet;

(2) One (1) soybean oil storage tank, identified as #6, with a capacity of 38,000 cubic feet;

(3) One (1) soybean oil storage tank, identified as #7, with a capacity of 38,000 cubic feet; and

(4) One (1) #2 fuel oil storage tank, identified as #10, with a capacity of 3,958 cubic feet.

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

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

D.9.1 Particulate Emissions Limitations [40 CFR 52, Subpart P] [326 IAC 6-3-2]

(a) Pursuant to 40 CFR 52, Subpart P, the allowable particulate emissions rate from any process not already regulated by 326 IAC 6-1 or any New Source Performance Standard, and which has a maximum process weight rate less than 100 pounds per hour shall not exceed 0.551 pounds per hour. The following insignificant activities are subject to this rule: blowdown for any of the following: sight glass; boiler; compressors; pumps; and cooling tower; and replacement or repair of electrostatic precipitators, bags in baghouses and filters in other air filtration equipment.

(b) Pursuant to 326 IAC 6-3-2(e)(2), the allowable particulate emissions rate 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 shall not exceed 0.551 pounds per hour. This condition is not federally enforceable. The following insignificant activities are subject to this rule: blowdown for any of the following: sight glass; boiler; compressors; pumps; and cooling tower; and replacement or repair of electrostatic precipitators, bags in baghouses and filters in other air filtration equipment.

D.9.2 Storage Tanks [326 IAC 12]

326 IAC 12 is applicable to the fuel oil storage tanks #4 and #10 and the soybean oil storage tanks #6 and #7. Pursuant to this rule, no specific emissions limitations or standards apply, but record keeping requirements are listed in the Record Keeping portion of this Section.

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

D.9.3 Record Keeping Requirements [326 IAC 12]

Pursuant to 326 IAC 12, as of July 1, 2000, the Permittee shall maintain readily available records showing the dimensions of the storage tanks and an analysis showing the capacity of the storage tanks. Additionally, for storage tanks #4, #6, #7, and #10, the Administrator shall be notified within 30 days when the maximum true vapor pressure of the liquid exceeds the respective maximum true vapor pressure value for each volume range.

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

PART 70 OPERATING PERMIT CERTIFICATION

Source Name: Bunge North America (East), Inc.
Source Address: 700 N. Rangeline Road, Morristown, Indiana 46161-0860
Mailing Address: P.O. Box 860, Morristown, Indiana 46161-0860
Part 70 Permit No.: T145-9004-00035

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

Please check what document is being certified:

☐ Annual Compliance Certification Letter

☐ Test Result (specify)

☐ Report (specify)

☐ Notification (specify)

☐ Affidavit (specify)

☐ Other (specify)

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

Signature:

Printed Name:

Title/Position:

Phone:

Date:

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE BRANCH
100 North Senate Avenue
P.O. Box 6015
Indianapolis, Indiana 46206-6015
Phone: 317-233-5674
Fax: 317-233-5967

PART 70 OPERATING PERMIT
EMERGENCY OCCURRENCE REPORT

Source Name: Bunge North America (East), Inc.
Source Address: 700 N. Rangeline Road, Morristown, Indiana 46161-0860
Mailing Address: P.O. Box 860, Morristown, Indiana 46161-0860
Part 70 Permit No.: T145-9004-00035

This form consists of 2 pages **Page 1 of 2**

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

- The Permittee must notify the Office of Air Quality (OAQ), within four (4) business hours (1-800-451-6027 or 317-233-5674, ask for Compliance Section); and
- The Permittee must submit notice in writing or by facsimile within two (2) working days (Facsimile Number: 317-233-5967), and follow the other requirements of 326 IAC 2-7-16.

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

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

If any of the following are not applicable, mark N/A **Page 2 of 2**

Date/Time Emergency started:
Date/Time Emergency was corrected:
Was the facility being properly operated at the time of the emergency? Y N Describe: Type of Pollutants Emitted: TSP, PM-10, SO2, VOC, NOX, CO, Pb, other:
Estimated amount of pollutant(s) emitted during emergency:
Describe the steps taken to mitigate the problem:
Describe the corrective actions/response steps taken:
Describe the measures taken to minimize emissions:
If applicable, describe the reasons why continued operation of the facilities are necessary to prevent imminent injury to persons, severe damage to equipment, substantial loss of capital investment, or loss of product or raw materials of substantial economic value:

Form Completed by:

Title / Position:

Date:

Phone:

A certification is not required for this report.

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

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

Source Name: Bunge North America (East), Inc.
Source Address: 700 N. Rangeline Road, Morristown, Indiana 46161-0860
Mailing Address: P.O. Box 860, Morristown, Indiana 46161-0860
Part 70 Permit No.: T145-9004-00035

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

I certify that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete. Signature:
Printed Name:
Title/Position:
Phone:
Date:

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

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

Part 70 Quarterly Report

Source Name: Bunge North America (East), Inc.
Source Address: 700 N. Rangeline Road, Morristown, Indiana 46161-0860
Mailing Address: P.O. Box 860, Morristown, Indiana 46161-0860
Part 70 Permit No.: T145-9004-00035
Facility: Soybean Processing Facilities (A-Plant (Existing))
Parameter: Soybean throughput
Limit: Less than 803,000 tons of soybean per twelve (12) consecutive month period with compliance determined at the end of each month

YEAR:

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

☐ No deviation occurred in this quarter.

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

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

Attach a signed certification to complete this report.

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

Part 70 Quarterly Report

Source Name: Bunge North America (East), Inc.
Source Address: 700 N. Rangeline Road, Morristown, Indiana 46161-0860
Mailing Address: P.O. Box 860, Morristown, Indiana 46161-0860
Part 70 Permit No.: T145-9004-00035
Facility: Soybean Processing Facilities (B-Plant)
Parameter: Soybean throughput
Limit: Less than 1,065,538 tons of soybean processed per twelve (12) consecutive month period with compliance determined at the end of each month

YEAR:

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

☐ No deviation occurred in this quarter.

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

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

Attach a signed certification to complete this report.

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

Part 70 Quarterly Report

Source Name: Bunge North America (East), Inc.
Source Address: 700 N. Rangeline Road, Morristown, Indiana 46161-0860
Mailing Address: P.O. Box 860, Morristown, Indiana 46161-0860
Part 70 Permit No.: T145-9004-00035
Facility: Vegetable Oil Refinery
Parameter: Amount of off-site oil processed
Limit: Less than 347,220,000 pounds of oil per twelve (12) consecutive month period with compliance determined at the end of each month

YEAR:

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

☐ No deviation occurred in this quarter.

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

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

Attach a signed certification to complete this report.

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

Part 70 Quarterly Report

Source Name: Bunge North America (East), Inc..
Source Address: 700 N. Rangeline Road, Morristown, Indiana 46161-0860
Mailing Address: P.O. Box 860, Morristown, Indiana 46161-0860
Part 70 Permit No.: T145-9004-00035
Facility: Soybean Processing Facilities (A Plant (Existing))
Parameter: Hexane Usage
Limit: Less than 481.8 tons of hexane per twelve (12) consecutive month period with compliance determined at the end of each month

YEAR:

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

☐ No deviation occurred in this quarter.

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

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

Attach a signed certification to complete this report.

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

Part 70 Quarterly Report

Source Name: Bunge North America (East), Inc.
Source Address: 700 N. Rangeline Road, Morristown, Indiana 46161-9643
Mailing Address: P.O. Box 860, Morristown, Indiana 46161-0860
Part 70 Permit No.: T145-9004-00035
Facility: Boiler No. 2
Parameter: SO_2 emissions limit (249 tons per twelve (12) consecutive month period) and fuel oil usage limit.
Limit: 6,343,949 gallons of No. 2 fuel oil per twelve (12) consecutive month period.

YEAR: _____

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

Parameter: Vegetable oil usage limit.
Limit: 4,540,000 gallons of vegetable oil per twelve (12) consecutive month period.

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

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

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

Attach a signed certification to complete this report.

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

PART 70 OPERATING PERMIT
QUARTERLY DEVIATION AND COMPLIANCE MONITORING REPORT

Source Name: Bunge North America (East), Inc.
Source Address: 700 N. Rangeline Road, Morristown, Indiana 46161-0860
Mailing Address: P.O. Box 860, Morristown, Indiana 46161-0860
Part 70 Permit No.: T145-9004-00035

Months: _____ **to** _____ **Year:** _____

Page 1 of 2

This report shall be submitted quarterly based on a calendar year. Any deviation from the requirements, the date(s) of each deviation, the probable cause of the deviation, and the response steps taken must be reported. Deviations that are required to be reported by an applicable requirement shall be reported according to the schedule stated in the applicable requirement and do not need to be included in this report. Additional pages may be attached if necessary. If no deviations occurred, please specify in the box marked "No deviations occurred this reporting period".
☐ NO DEVIATIONS OCCURRED THIS REPORTING PERIOD.
☐ THE FOLLOWING DEVIATIONS OCCURRED THIS REPORTING PERIOD

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

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

Page 2 of 2

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

Form Completed By:

Title/Position:

Date:

Phone:

Attach a signed certification to complete this report.

Indiana Department of Environmental Management
Office of Air Quality

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

Source Description and Location

Source Name:	Bunge North America (East), Inc.
Source Location:	700 North Rangeline Road, Morristown, IN 46161-9643
County:	Shelby
SIC Code:	2075
Operation Permit No.:	145-9004-00035
Operation Permit Issuance Date:	June 29, 2004
Source Modification No.:	145-21892-00035
Permit Modification No.:	145-21927-00035
Permit Reviewer:	Allen R. Davidson

Existing Approvals

The emission source was issued Part 70 Operating Permit 145-9004-00035 on June 29, 2004. The source has since received the following approvals:

(a) Administrative Amendment 145-19931-00035, issued August 11, 2004, which updated insignificant activities and facility descriptions.

(b) Administrative Amendment 145-19517-00035, issued September 7, 2004, which removed the expiration date on Administrative Amendment 145-19931-00035.

(c) Significant Source Modification 145-21206-00035, issued July 21, 2005, which allowed pellet mill and pellet cooler upgrades.

(d) Significant Permit Modification 145-21327-00035, issued August 3, 2005, which incorporated Significant Source Modification 145-21206-00035 into the Part 70 permit.

Part 70 Significant Permit Modification 145-21512-00035 is pending. Applications 145-21892-00035 and 145-21927-00035 will be the sixth and seventh revisions to the Part 70 permit, respectively.

County Attainment Status

The emission source is located in Shelby County.

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

(a) 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 the ozone standards. Shelby County has been designated as nonattainment for the 8-hour ozone standard. Therefore, VOC and NOx emissions were reviewed pursuant to the requirements for emission offset, 326 IAC 2-3.

(b) Shelby County has been classified as attainment for $PM_{2.5}$. U.S. EPA has not yet established the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2 for $PM_{2.5}$ emissions. Therefore, until the U.S. EPA adopts specific provisions for PSD review for $PM_{2.5}$ emissions, it has directed states to regulate PM_{10} emissions as a surrogate for $PM_{2.5}$ emissions.

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

See "Permit Level Determination – PSD or Emission Offset" for more details regarding PSD or Emission Offset 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	Potential to Emit (tons/yr)
PM	greater than 250
PM_{10}	greater than 250
SO_2	greater than 100, less than 250
VOC	greater than 100, less than 250
CO	less than 100
NO_x	less than 100

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

(b) This existing source is classified as a major stationary source under Emission Offset (326 IAC 2-3) because VOC, a nonattainment regulated pollutant, is emitted at a rate of 100 tons per year or more.

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

HAPs	Potential to Emit (tons/yr)
Single	greater than 10
Total	greater than 25

This existing source is a major source of HAPs, as defined in 40 CFR 63.41, because HAP emissions are greater than ten (10) tons per year for a single HAP 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).

Background and Description of Proposed Modification

The Office of Air Quality (OAQ) has reviewed an application, submitted by Bunge North America (East), Inc. on October 21, 2005, relating to the operation of two soybean oil extraction plants located at 700 North Rangeline Road, Morristown, IN 46161-9643. The application involves a request to use vegetable oil, or blends of vegetable oil and distillate fuel oil, as fuel in two existing boilers.

Emission Units and Pollution Control Equipment

The application includes information relating to the operation of the following equipment:

(o) One (1) boiler, identified as the Murray boiler, uncontrolled, constructed in 1996.

(cb) One (1) boiler, identified as boiler no. 2, controlled by low NOx burners and flue gas recirculation, constructed in 2004.

Insignificant Activities

This application does not involve any insignificant activities, as defined in 326 IAC 2-7-1(21).

Enforcement Issues

There are no pending enforcement actions related to this application.

Emission Calculations

The emission calculations are based on emission tests conducted February 12, 2001 and July 19, 2001 on the Boiler B010 stack at the Central Soya facility in Bellevue, OH. These tests were supervised by the Ohio EPA. See Appendix A of this document for detailed emission calculations (1 page).

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 increase in potential to emit before controls. Control equipment is not considered federally enforceable until it has been required in a federally enforceable permit.

Pollutant	Potential to Emit (tons/yr)
PM	10.7
PM_{10}	10.7
SO_2	0.0
VOC	0.0
CO	0.0
NO_x	15.2

HAPs	Potential to Emit (tons/yr)
Total	0.0

Justification for Minor Source Modification

The source modification involves changes in the method of operation where the increase in potential to emit is:

(a) less than twenty-five (25) tons per year and equal to or greater than five (5) tons per year of both particulate matter (PM) and particulate matter less than ten (10) microns (PM_{10}), and

(b) less than twenty-five (25) tons per year and equal to or greater than ten (10) tons per year of nitrogen oxides (NOx).

As a result, this change is classifiable as a minor source modification under 326 IAC 2-7-10.5(d)(3).

Justification for Significant Permit Modification

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

Permit Level Determination – PSD or Emission Offset

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

Emission Unit	PM	PM_{10}	SO_2	NO_X	VOC	CO
Murray Boiler	3.04	3.04	0	4.35	0	0
Boiler No. 2	1.24	1.24	0	1.77	0	0
Total	4.28	4.28	0	6.12	0	0

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

(a) This modification to an existing major stationary source is not major for Prevention of Significant Deterioration (PSD) because the emissions increase of all attainment regulated pollutants is less than the PSD significant levels. Therefore, pursuant to 326 IAC 2-2, the PSD requirements do not apply.

(b) This modification to an existing major stationary source is not major for Emission Offset because the emissions increase of nitrogen oxides (NOx) is less than the Emission Offset significant levels. Therefore, pursuant to 326 IAC 2-3, the Emission Offset requirements do not apply.

Federal Rule Applicability Determination

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

(a) The Murray boiler is subject to the requirements of the New Source Performance Standards (NSPS), 326 IAC 12 (40 CFR 60, Subpart Dc) "Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units." The boiler was constructed after June 9, 1989 and the maximum heat input capacity is between 10 and 100 MMBtu per hour. Pursuant to this rule:

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

(2) The sulfur content of the fuel oil shall not exceed five-tenths percent (0.5%) by weight. [40 CFR 60.42c(d)]

Pursuant to 40 CFR 60 Subpart Dc, the fuel oil sulfur content limit applies at all times, including periods of startup, shutdown, and malfunction.

Additionally, pursuant to 40 CFR 60.43c(c), when combusting fuel oil, the Murray boiler is limited to less than twenty percent (20%) opacity (6-minute average), except for one 6-minute period per hour of not more than twenty-seven percent (27%) opacity. The Murray boiler is not subject to the CEMS monitoring requirement in 40 CFR 60.47c because the boiler burns distillate oil, not residual oil.

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

(b) Boiler No. 2 is subject to the requirements of the New Source Performance Standards (NSPS), 326 IAC 12 (40 CFR 60, Subpart Db) "Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units." The boiler was constructed after June 19, 1984 and the maximum heat input capacity is greater than 100 MMBtu per hour. Pursuant to this rule:

(1) Boiler no. 2 shall not cause to be discharged into the atmosphere from the boiler no. 2, any gases that exhibit greater than twenty percent (20%) opacity (6-minute average), except for one 6-minute period per hour of not more than twenty-seven percent (27%) opacity. The opacity standards apply at all times, except during period of startup, shutdown, or malfunction.

(A) The owner or operator shall install, calibrate, maintain, and operate a continuous monitoring system for measuring the opacity of emissions discharged to the atmosphere from boiler no. 2, and record the output of the system.

(B) The continuous monitoring system shall be operated and data recorded during all periods of operation of boiler no. 2 except for continuous monitoring system breakdowns and repairs. Data shall be recorded during calibration checks, and zero and span adjustments.

(2) The owner or operator shall not cause to be discharged into the atmosphere from boiler no. 2 any gases that contain nitrogen oxides (expressed as NO_2) in excess of 0.20 lb/million Btu, and the nitrogen oxide standard shall apply at all times including the period of start-up, shutdown, or malfunction emissions.

(A) The owner or operator shall install, calibrate, maintain, and operate a continuous monitoring system for measuring nitrogen oxides emissions discharged to the atmosphere from boiler no. 2, and record the output of the system.

(B) The continuous monitoring system shall be operated and data recorded during all periods of operation of the boiler no. 2 except for continuous monitoring system breakdowns and repairs. Data shall be recorded during calibration checks, and zero and span adjustments.

(3) The owner or operator shall not cause to be discharged into the atmosphere from the boiler no. 2 any gases that contain SO_2 in excess of 0.50 lb/million Btu heat input; or, as an alternative, the owner or operator of the boiler no. 2 shall not combust distillate oil that contains greater than 0.5 weight percent sulfur.

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

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

The emission source is subject to the National Emission Standards for Hazardous Air Pollutants (NESHAP) for Industrial, Commercial, and Institutional Boilers and Process Heaters, (40 CFR 63, Subpart DDDDD), as of September 13, 2004.

(a) The Murray boiler is classified as an existing large liquid fuel boiler under this NESHAP. Pursuant to this rule, the Murray boiler must comply with 40 CFR 63, Subpart DDDDD on and after September 13, 2007. Vegetable oil combustion does not change the classification, and the applicability date remains unchanged as a result of this modification.

(b) Boiler no. 2 is classified as a new or reconstructed large liquid fuel boiler under this NESHAP. A boiler or process heater is new if construction of the boiler or process heater commences after January 13, 2003. Pursuant to this rule, boiler no. 2 must comply with 40 CFR 63, Subpart DDDDD upon startup.

(c) As stated in 43 CFR 63.7500, Bunge North America (East), Inc. must comply with the following applicable emission limits and work practice standards:

(1) For new or reconstructed large liquid fuel boilers, particulate matter emissions shall not exceed 0.03 pounds per MMBtu of heat input.

(2) For new or reconstructed large liquid fuel boilers, hydrogen chloride emissions shall not exceed 0.0005 pounds per MMBtu of heat input.

(3) For new or reconstructed large liquid fuel boilers, carbon monoxide emissions shall not exceed 400 ppm by volume on a dry basis corrected to 3 percent oxygen.

There are no applicable emission limits and work practice standards for existing large liquid fuel boilers.

State Rule Applicability Determination – Entire Source

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

This modification to an existing major stationary source is not major for Prevention of Significant Deterioration (PSD) because the emissions increase of all attainment regulated pollutants is less than the PSD significant levels. Therefore, pursuant to 326 IAC 2-2, the PSD requirements do not apply to this modification.

The pump which supplies vegetable oil for combustion by the Murray boiler also supplies boiler no. 2. Boiler no. 2 has an existing PM and PM_{10} emission limit of 10.5 tons per year. The pump and fuel lines to be constructed have a maximum flow rate to boiler no. 2 that is less than 3950 pounds of vegetable oil per hour, which ensures compliance with the limit. Any change or modification that would result in a flow rate to boiler no. 2 greater than 3950 pounds of vegetable oil per hour must be approved pursuant to 326 IAC 2-2 before such change may occur.

326 IAC 2-3 (Emission Offset)

This modification to an existing major stationary source is not major for Emission Offset because the emissions increase of nitrogen oxides (NOx) is less than the Emission Offset significant levels. Therefore, pursuant to 326 IAC 2 3, the Emission Offset requirements do not apply.

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

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

326 IAC 2-6 (Emission Reporting)

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

326 IAC 2-7 (Part 70 Permit Program)

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

(a) The potential to emit particulate matter (PM) and particulate matter with an aerodynamic diameter less than or equal to ten (10) micrometers (PM_{10}) are greater than 100 tons per year.

(b) The potential to emit (as defined in 326 IAC 2-7-1(29)) of volatile organic compounds is equal to or greater than 100 tons per year.

(c) The potential to emit (as defined in 326 IAC 2-7-1(29)) of sulfur dioxide (SO_2) is equal to or greater than 100 tons per year.

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

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

326 IAC 5-1 (Opacity Limitations)

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

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

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

State Rule Applicability Determination – Murray Boiler

326 IAC 6-2-4 (Emission Limitations for Sources of Indirect Heating)

The Murray boiler is subject to 326 IAC 6-2-4 (Emission Limitations for Sources of Indirect Heating) because it was constructed in 1996 which is after the applicability date of September 21, 1983. Pursuant to this rule, the particulate emissions from the boiler shall be limited to 0.32 pounds per million Btu heat input.

These limitations are based on the following equation:

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

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

Q = Total source maximum operating capacity rating in million Btu per hour heat input. (96 MMBtu/hr in 1996)

326 IAC 7-1.1 (SO_2 Emissions Limitations)

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

State Rule Applicability Determination – Boiler No. 2

326 IAC 6-2-4 (Emission Limitations for Sources of Indirect Heating)

Boiler no. 2 is subject to 326 IAC 6-2-4 (Emission Limitations for Sources of Indirect Heating) because it was constructed in 2004 which is after the applicability date of September 21, 1983. Pursuant to this rule, the particulate emissions from the boiler shall be limited to 0.24 pounds per million Btu heat input.

These limitations are based on the following equation:

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

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

Q = Total source maximum operating capacity rating in million Btu per hour heat input. (336 MMBtu/hr in 2004)

326 IAC 7-1.1 (SO_2 Emissions Limitations)

Boiler no. 2 is subject to 326 IAC 7-1.1. Pursuant to 326 IAC 7-1.1 (SO_2 Emissions Limitations), SO_2 emissions shall not exceed five tenths (0.5) pound per MMBtu heat input for distillate oil combustion and for combusting distillate oil and any fuel other than coal simultaneously. Pursuant to 326 IAC 7-2-1, compliance shall be demonstrated on a calendar month average.

Proposed Changes

The changes listed below are being proposed to Part 70 Operating Permit No. 145-9004-00035. Deleted language appears as ~~strikethroughs~~ and new language appears in **bold**:

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:

NOTE: All capacities are considered confidential by the source and are included in a confidential OAQ file.

A-PLANT (EXISTING)

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

(o) One (1) ~~natural gas-fired/#2 fuel oil-fired combustion unit~~ **boiler**, identified as **the** Murray boiler, constructed in 1996**, firing natural gas, vegetable oil, #2 distillate fuel oil, or blends of vegetable oil and #2 distillate fuel oil, rated at 96 million Btu per hour**;

(Items (p) through (ca) remain unchanged.)

(cb) One (1) ~~main 337 MMBtu per hour~~ boiler, ~~natural gas or distillate oil fired,~~ identified as **boiler no. 2** ~~#40b~~, **firing natural gas, vegetable oil, #2 distillate fuel oil, or blends of vegetable oil and #2 distillate fuel oil, rated at 240 million Btu per hour,** controlled by low NOx burners and flue gas recirculation, and exhausting at stack Pt. # 20.

(Items (cc) through (cj) remain unchanged.)

(Condition A.3, which originally appeared between Condition A.2 items (w) and (x), will be relocated after Condition A.2.)

D.4.4 Sulfur Dioxide Emissions and Sulfur Content

Pursuant to 40 CFR 60, Subpart Dc, the Permittee shall demonstrate compliance utilizing one of the following options:

(a) Providing vendor analysis of fuel **oil** delivered, if accompanied by a certification; or

(b) Analyzing the **fuel** oil sample to determine the sulfur content of the **fuel** oil via the procedures in 40 CFR 60, Appendix A, Method 19.

(1) ~~Oil~~ **Fuel oil** samples may be collected from the fuel **oil** tank immediately after the fuel **oil** tank is filled and before any **fuel** oil is combusted; and

(2) If a partially empty fuel **oil** tank is refilled, a new sample and analysis would be required upon filling.

D.4.5 Visible Emissions Notations

(a) Visible emission notations of the boiler stack exhaust shall be performed once per shift during normal daylight operations when combusting fuel oil **and/or vegetable oil** and exhausting to the atmosphere. A trained employee shall record whether emissions are normal or abnormal.

(b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.

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

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

(e) The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when an abnormal emission is observed. Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a deviation from this permit.

D.4.6 Record Keeping Requirements

(a) To document compliance with Condition D.4.2, the Permittee shall maintain records in accordance with (1) through (7) below. Note that pursuant to 40 CFR 60 Subpart Dc, the fuel oil sulfur limit applies at all times including periods of startup, shutdown, and malfunction.

(1) Calendar dates covered in the compliance determination period;

(2) Actual fuel oil usage since last compliance determination period and equivalent sulfur dioxide emissions;

(3) To certify compliance when burning natural gas only, the Permittee shall maintain records of fuel used.

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

(4) Fuel supplier certifications;

(5) The name of the fuel supplier; ~~and~~

(6) **The percentage of distillate fuel oil in the fuel; and**

(7) A statement from the fuel supplier that certifies the sulfur content of the fuel oil.

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

(b) To document compliance with Condition D.4.5, the Permittee shall maintain records of visible emission notations of the boiler stack exhaust once per shift.

(c) To document compliance with Condition D.4.3, the Permittee shall maintain records of any additional inspections prescribed by the Preventive Maintenance Plan.

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

D.8.2 New Source Performance Standard (NSPS) [326 IAC 12] [40 CFR 60, Subpart Db]

Pursuant to SSM 145-9618-00035, 326 IAC 12 and 40 CFR 60, Subpart Db (Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units):

(a) Pursuant to 40 CFR 60.43b(f) (Opacity Limitation), on and after the date on which the initial performance test is completed or required to be completed under 40 CFR 60.8, whichever date comes first, the Permittee shall not cause to be discharged into the atmosphere from the Boiler no. 2, any gases that exhibit greater than ~~20~~ **twenty** percent **(20%)** opacity (6-minute average) ~~during periods in which fuel oil no. 2 is combusted~~,

except for one 6-minute period per hour of not more than ~~27~~ **twenty-seven** percent **(27%)** opacity. The opacity standards apply at all times, except during period of startup, shutdown, or malfunction.

(b) Pursuant to 40 CFR 60.44b(a) (Nitrogen Oxides Limitation) the Permittee shall not cause to be discharged into the atmosphere from the boiler #2 any gases that contain nitrogen oxides (expressed as NO_2) in excess of 0.20 lb/million Btu. The nitrogen oxides standard shall apply at all times including the period of start-up, shutdown, or malfunction emissions.

(c) Pursuant to 40 CFR 60.42b(d) and 326 IAC 7-1.1-2 (Sulfur Dioxides Limitation), on and after the date on which the initial performance test is completed or required to be completed under 40 CFR 60.8, whichever date comes first:

(1) The SO_2 emissions from ~~the 240 MMBtu per hour~~ boiler no. 2 shall not exceed five tenths (0.5) pounds per million Btu heat input; or

(2) The sulfur content of the fuel oil shall not exceed five-tenths percent (0.5%) by weight. [40 CFR 60.8]

(3) The SO_2 emission limits and fuel oil sulfur limits apply at all times, including period of startup, shutdown, and malfunction. [40 CFR 60.8]

D.8.5 PSD Minor Limit [326 IAC 2-2]

~~Pursuant to 326 IAC 2-2:~~

(a) The soybean processed by the "B" plant shall be limited to 1,065,538 tons per 12-month period, rolled on a monthly basis. This soybean limitation is required to limit the potential to emit of PM and PM-10 to 225 and 218 tons per 12-month period, rolled on a monthly basis, respectively.

During the first twelve (12) months after issuance of this Significant Source Modification, the total amount of soybeans processed shall be limited such that the total soybean processed divided by the accumulated months of operation shall not exceed 88,795 tons up to a maximum total of 1,065,538 tons for the first twelve (12) months.

(b) The following facilities' PM and PM-10 emissions rates shall be limited as follows:

Process	Baghouse/ Cyclone	Air Flow Rate (acfm)	Grain Loading (gr/dscf)	PM Limit (lb/hr)	PM-10 Limit (Filterable) (lb/hr)
Truck unloading #1 and #2 fugitives				7.29	2.39
Rail unloading fugitives				0.64	0.156
B Bean Heater	Baghouse Pt #25	18,000	0.004	0.62	0.62
Hot cracking and dehulling system, B-plant	Four Cyclones Pt #18	121,800	0.025	25.8	25.8
Soybean Flaking, B-Plant	Baghouse Pt #19	16,000	0.005	0.69	0.69
DTDC meal dryers #1 and #2, B-Plant	Cyclone Pt #21	38,000	0.014	4.56	4.56
DTDC meal coolers #1 and #2, B-Plant	Cyclone Pt #21	22,000	0.068	12.82	12.82
Meal sizing system	Baghouse Pt. #24	30,000	0.005	1.29	1.29
Boiler 2		~~6,343,949 gals of #2 fuel oil~~		10.5 tpy	10.5 tpy

(c) The amount of distillate oil with 0.5% sulfur maximum, combusted in the boiler no. 2 shall be limited to 6,343,949 gallons **per 12 month period** rolled on a monthly basis. This distillate oil limitation is required to limit the potential to emit of SO_2 emissions of 249 tons per 12 month period, rolled on a monthly basis.

(d) The amount of vegetable oil combusted in boiler no. 2 shall not exceed 4,540,000 gallons per 12 month period rolled on a monthly basis. When using blends of vegetable oil and distillate fuel oil, only the volume of fuel which is vegetable oil shall count toward the usage limit.

(e) When burning vegetable oil, or blends of vegetable oil and distillate fuel oil, PM_{10} emissions shall not exceed 0.016 pounds per million Btu heat input. This condition, along with the vegetable oil usage limit, is required to limit the potential to emit PM_{10} emissions from boiler no. 2 to less than 10.5 tons per 12 month period, rolled on a monthly basis.

Compliance with these limits makes 326 IAC 2-2 (Prevention of Significant Deterioration) not applicable for PM**, PM_{10}** and SO_2 emissions. This will also satisfy the rule 326 IAC 6-3-2.

D.8.7 Particulate Emission Limitations for Sources of Indirect Heating [326 IAC 6-2-4]

Pursuant to 326 IAC 6-2-4, the PM emissions from Boiler No. 2 shall not exceed 0.24 pound per million Btu heat input (lb/MMBtu). This limitation was calculated using the following equation:

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

Where Pt = emission rate limit (lbs/MMBtu)
Q = total source capacity (~~337~~ **336** MMBtu/hr)

D.8.9 Testing Requirements [326 IAC 2-7-6(1), (6)] [326 IAC 2-1.1-11], [326 IAC 2-2], and [326 IAC 3]

(a) Pursuant to SSM 145-9618-00035, 40 CFR 60, subpart Db and 326 IAC 2-2, compliance tests, tests for PM and PM_{10}, and opacity observations shall be performed for the affected facilities, as shown below, to comply with Conditions D.8.2 and D.8.5(a) and (b) within 60 days after achieving maximum production rate, but no later than 180 days after initial start up. PM_{10} includes filterable and condensible PM_{10}. Testing shall be conducted in accordance with Section C - Performance Testing.

Facilities	Pollutant/Opacity
Receiving baghouses (PT # 01 & 02)	PM/PM_{10}/Opacity
Screening baghouse (PT # 05)	PM/PM_{10}/Opacity
Boiler #2	Opacity/NOx

(b) Pursuant to 40 CFR 60, Subpart Db, the Permittee shall determine one of the following:

(1) Provide vendor analysis of fuel **oil** delivered, if accompanied by a certification; or

(2) Analyze the **fuel** oil sample to determine the sulfur content of the **fuel** oil via the procedures in 40 CFR 60, Appendix A, Method 19.

(A) ~~Oil~~ **Fuel oil** samples may be collected from the fuel **oil** tank immediately after the fuel **oil** tank is filled and before any **fuel** oil is combusted; and

(B) If a partially empty fuel **oil** tank is refilled, a new sample and analysis would be required upon filling.

(c) Pursuant to 326 IAC 3 (Construction and Operating Permit Requirements), the Permittee shall develop a representative stack testing plan which identifies the method in which emissions from the following sources shall be evaluated to satisfy the Operation Condition No. D.8.5(a), and (b), within 18 months of startup. The facilities listed in (a) above may be proposed as representative facilities.

Facilities	Pollutant
Hot cracking and dehulling system, B-plant (Pt# 18)	PM, PM_{10}
Soybean flaking, B-plant (PT# 19)	PM, PM_{10}
Mineral oil absorber (PT# 23)	VOC, Mineral oil flow rate
DTDC meal dryers #1 & #2, B-plant (PT# 21)	PM, PM_{10}
DTDC meal coolers #1 & #2, B-plant (PT# 22)	PM, PM_{10}
Meal sizing system (PT# 24)	PM, PM_{10}
Millfeed and meal storage and truck loadout (PT# 12)	PM, PM_{10}
Rail loadout #1 (PT# 13)	PM, PM_{10}

The Permittee shall submit the stack test plan to IDEM after the entire source has achieved a successful start up. This plan shall be reviewed and approved by IDEM. This plan shall outline the measures to be taken to meet the permitted emission rates and shall provide that the emission units meet the limits for the facilities except the facilities in (a) be completed within 18 months of the date of the entire source start-up. The stack tests shall be performed for the facilities in (a) within 60 days after achieving maximum production rate, but no later than 180 days after initial start up of the facilities in (a).

(d) In order to demonstrate compliance with Condition D.8.5(e), no later than 180 days from the commencement of vegetable oil combustion, the Permittee shall conduct performance tests for PM_{10} on boiler no. 2 during vegetable oil combustion, and furnish the Commissioner a written report of the results of such performance tests. Testing shall be conducted in accordance with Section C - Performance Testing.

(e) Whenever the results of the stack test performed exceed the level specified in this permit, appropriate corrective actions shall be implemented within thirty (30) days of receipt of the test results. These actions shall be implemented immediately unless notified by OAQ that they are acceptable. The Permittee shall minimize emissions while the corrective actions are being implemented.

(f) ~~(e)~~ Whenever the results of the stack test performed exceed the level specified in this permit, a second test shall be performed within 120 days. Failure of the second test to meet the limits may be grounds for immediate revocation of this permit to operate the affected facility.

Conclusion and Recommendation

The use of vegetable oil, or blends of vegetable oil and distillate fuel oil, as fuel in the Murray Boiler and boiler no. 2 shall be subject to the conditions of the attached proposed Part 70 Minor Source Modification No. 145-21892-00035 and Significant Permit Modification 145-21927-00035. The staff recommends to the Commissioner that this Part 70 Minor Source Modification and Significant Permit Modification be approved.

Appendix A: Emissions Calculations

Company Name: Bunge North America (East), Inc.
Address City IN Zip: 700 North Rangeline Road, Morristown, IN 46161-9643
ID: 145-21892-00035 and 145-21927-00035
Reviewer: Allen R. Davidson
Date: 12/06/05

1st Boiler 96 MMBtu/hr

SO Flow rate:	5684.8321	lb/hr
Density:	7.702	lb/gal
Fuel Use:	738.09817	gal/hr
Heat Value:	130064	Btu/gal
Heat by SO:	96000000	Btu/hr

Maximum % soybean oil: 100.00%

Linear scaling of test data:

100.00% maximum / 58% as tested = 1.72 (scaling factor)

	NG / #2 fuel oil emission factor	NG / #2 fuel oil ton / year	58.0% veg. oil emission factor	100.0% veg. oil emission factor	100.0% veg. oil ton / year	Change in emissions ton / year
PM:	0.0088 lb/MMBtu	3.70 tons/year	0.0130 lb/MMBtu	0.0160 lb/MMBtu	6.75 tons/year	3.04 tons/year
PM_{10}:	0.0088 lb/MMBtu	3.70 tons/year	0.0130 lb/MMBtu	0.0160 lb/MMBtu	6.75 tons/year	3.04 tons/year
SO_2:	0.5000 lb/MMBtu	210.24 tons/year	0.0167 lb/MMBtu	0.0000 lb/MMBtu	0.00 tons/year	0.00 tons/year
NOx:	0.1360 lb/MMBtu	57.19 tons/year	0.1420 lb/MMBtu	0.1463 lb/MMBtu	61.54 tons/year	4.35 tons/year
VOC:	0.1360 lb/MMBtu	57.19 tons/year	0.0024 lb/MMBtu	0.0000 lb/MMBtu	0.00 tons/year	0.00 tons/year
CO:	0.0079 lb/MMBtu	3.33 tons/year	0.0003 lb/MMBtu	0.0000 lb/MMBtu	0.00 tons/year	0.00 tons/year

2nd Boiler 240 MMBtu/hr

SO Flow rate:	14212.08	lb/hr
Density:	7.702	lb/gal
Fuel Use:	1845.2454	gal/hr
Heat Value:	130064	Btu/gal
Heat by SO:	240000000	Btu/hr

Maximum % soybean oil: 100.00%

Linear scaling of test data:

100.00% maximum / 58% as tested = 1.72 (scaling factor)

	NG / #2 fuel oil emission factor	NG / #2 fuel oil ton / year	58.0% veg. oil emission factor	100.0% veg. oil emission factor	100.0% veg. oil ton / year	Change in emissions ton / year
PM:	0.0088 lb/MMBtu	9.25 tons/year	0.0130 lb/MMBtu	0.0160 lb/MMBtu	16.86 tons/year	7.61 tons/year
PM_{10}:	0.0088 lb/MMBtu	9.25 tons/year	0.0130 lb/MMBtu	0.0160 lb/MMBtu	16.86 tons/year	7.61 tons/year
SO_2:	0.5000 lb/MMBtu	525.60 tons/year	0.0167 lb/MMBtu	0.0000 lb/MMBtu	0.00 tons/year	0.00 tons/year
NOx:	0.1360 lb/MMBtu	142.96 tons/year	0.1420 lb/MMBtu	0.1463 lb/MMBtu	153.84 tons/year	10.87 tons/year
VOC:	0.1360 lb/MMBtu	142.96 tons/year	0.0024 lb/MMBtu	0.0000 lb/MMBtu	0.00 tons/year	0.00 tons/year
CO:	0.0079 lb/MMBtu	8.33 tons/year	0.0003 lb/MMBtu	0.0000 lb/MMBtu	0.00 tons/year	0.00 tons/year

The emission calculations are based on emission tests conducted February 12, 2001 and July 19, 2001 on the Boiler B010 stack at the Central Soya facility in Bellevue, OH. These tests were supervised by the Ohio EPA.

Methodology:

(emission at 0% soybean oil) + ((change in emisison between 0% and 58% soybean oil) * (scaling factor))
= (emission at the desired % soybean oil)

	Change in emissions ton / year
PM:	10.66 tons/year
PM_{10}:	10.66 tons/year
TOTAL: SO_2:	0.00 tons/year
NOx:	15.22 tons/year
VOC:	0.00 tons/year
CO:	0.00 tons/year

Boier no. 2 will be limited to 4,540,000 gallons per year to comply with existing emission limits:

$$\frac{4{,}540{,}000\ \text{gal}}{\text{yr}} * \frac{7.702\ \text{lb}}{\text{gal}} * \frac{\text{yr}}{8760\ \text{hr}} = \frac{3991.6758\ \text{lb}}{\text{hr}}$$

2nd Boiler 240 MMBtu/hr

SO Flow rate:	3991.6758	lb/hr
Density:	7.702	lb/gal
Fuel Use:	518.26484	gal/hr
Heat Value:	130064	Btu/gal
Heat by SO:	67407598	Btu/hr

Maximum % soybean oil: 28.09%

Linear scaling of test data:

28.09% maximum / 58% as tested = 0.48 (scaling factor)

	NG / #2 fuel oil emission factor	NG / #2 fuel oil ton / year	58.0% veg. oil emission factor	28.1% veg. oil emission factor	28.1% veg. oil ton / year	Change in emissions ton / year
PM:	0.0088 lb/MMBtu	9.25 tons/year	0.0130 lb/MMBtu	0.0100 lb/MMBtu	10.49 tons/year	1.24 tons/year
PM_{10}:	0.0088 lb/MMBtu	9.25 tons/year	0.0130 lb/MMBtu	0.0100 lb/MMBtu	10.49 tons/year	1.24 tons/year
SO_2:	0.5000 lb/MMBtu	525.60 tons/year	0.0167 lb/MMBtu	0.3643 lb/MMBtu	382.91 tons/year	0.00 tons/year
NOx:	0.1360 lb/MMBtu	142.96 tons/year	0.1420 lb/MMBtu	0.1377 lb/MMBtu	144.73 tons/year	1.77 tons/year
VOC:	0.1360 lb/MMBtu	142.96 tons/year	0.0024 lb/MMBtu	0.0985 lb/MMBtu	103.52 tons/year	0.00 tons/year
CO:	0.0079 lb/MMBtu	8.33 tons/year	0.0003 lb/MMBtu	0.0058 lb/MMBtu	6.08 tons/year	0.00 tons/year

Note: In cases where linear scaling of an emission decrease results in a negative emission factor, the emission factor is listed as zero lb/MMBtu.

	Change in emissions ton / year
PM:	4.28 tons/year
PM_{10}:	4.28 tons/year
TOTAL: SO_2:	0.00 tons/year
NOx:	6.12 tons/year
VOC:	0.00 tons/year
CO:	0.00 tons/year