



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

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Michael R. Pence
Governor

Thomas W. Easterly
Commissioner

To: Interested Parties

Date: April 14, 2015

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

Source Name: Bunge North America (East) LLC

Permit Level: Title V – Significant Permit Modification

Permit Number: 001-35195-00005

Source Location: 1200 N. 2nd Street Decatur, Indiana

Type of Action Taken: Modification at an existing source
Revisions to permit requirements

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 matter referenced above.

The final decision is available on the IDEM website at: <http://www.in.gov/apps/idem/caats/>
To view the document, select Search option 3, then enter permit 35195.

If you would like to request a paper copy of the permit document, please contact IDEM's central file room:

Indiana Government Center North, Room 1201
100 North Senate Avenue, MC 50-07
Indianapolis, IN 46204
Phone: 1-800-451-6027 (ext. 4-0965)
Fax (317) 232-8659

Pursuant to IC 13-17-3-4 and 326 IAC 2, this permit modification is effective immediately, unless a petition for stay of effectiveness is filed and granted, and may be revoked or modified in accordance with the provisions of IC 13-15-7-1.

(continues on next page)

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

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

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

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

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

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

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

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



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April 14, 2015

Mr. Mike Sorg
Bunge North America (East), LLC
1200 N. 2nd Street
Decatur, IN 46733-1160

Re: 001-35195-00005
Significant Permit Modification to
Part 70 Renewal No.: T001-31996-00005

Dear Mr. Sorg:

Bunge North America (East), LLC was issued Part 70 Operating Permit Renewal No. T001-31996-00005 on October 24, 2014 for a stationary grain handling, soybean meal production, and soybean oil extraction plant located at 1200 N. 2nd Street, Decatur, IN. An application requesting changes to this permit was received on December 1, 2014. Pursuant to the provisions of 326 IAC 2-7-12, a Significant Permit Modification to this permit is hereby approved as described in the attached Technical Support Document.

Please find attached the entire Part 70 Operating Permit as modified. The permit references the below listed attachments. Since these attachments have been provided in previously issued approvals for this source, IDEM OAQ has not included a copy of these attachments with this modification:

- Attachment A: 40 CFR 60, Subpart DD - Standards of Performance for Grain Elevators
- Attachment B: 40 CFR 60, Subpart Dc - Standards of Performance for Small Industrial- Commercial-Institutional Steam Generating Units
- Attachment C: 40 CFR 63, Subpart GGGG - National Emission Standards for Hazardous Air Pollutants: Solvent Extraction for Vegetable Oil Production
- Attachment D: 40 CFR 63, Subpart DDDDD - National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters
- Attachment E: 40 CFR 60, Subpart Db - Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units
- Attachment F: 40 CFR 60, Subpart IIII - Standards of Performance for Stationary Compression Ignition Internal Combustion Engines
- Attachment G: 40 CFR 63, Subpart ZZZZ - National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines

Previously issued approvals for this source containing these attachments are available on the Internet at: <http://www.in.gov/ai/appfiles/idem-caats/>.

Federal rules under Title 40 of United States Code of Federal Regulations may also be found on the U.S. Government Printing Office's Electronic Code of Federal Regulations (eCFR) website, located on the Internet at: http://www.ecfr.gov/cgi-bin/text-idx?tpl=/ecfrbrowse/Title40/40tab_02.tpl.

A copy of the permit is available on the Internet at: <http://www.in.gov/ai/appfiles/idem-caats/>. For additional information about air permits and how the public and interested parties can participate, refer to the IDEM Permit Guide on the Internet at: <http://www.in.gov/idem/5881.htm>; and the Citizens' Guide to IDEM on the Internet at: <http://www.in.gov/idem/6900.htm>.



This decision is subject to the Indiana Administrative Orders and Procedures Act - IC 4-21.5-3-5. If you have any questions on this matter, please contact Laura Spriggs Thompson of my staff, OAQ, 100 North Senate Avenue, MC 61-53 IGCN 1003, Indianapolis, Indiana, 46204-2251, or call at (800) 451-6027, and ask for Laura Spriggs Thompson or extension 3-5693 or dial (317) 233-569..

Sincerely,



Jason R. Krawczyk, Section Chief
Permits Branch
Office of Air Quality

Attachments: Updated Permit and Technical Support Document

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



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Commissioner

Part 70 Operating Permit Renewal OFFICE OF AIR QUALITY

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

(herein known as the Permittee) is hereby authorized to operate subject to the conditions contained herein, the source described in Section A (Source Summary) of this permit.

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

This permit is issued in accordance with 326 IAC 2 and 40 CFR Part 70 Appendix A and contains the conditions and provisions specified in 326 IAC 2-7 as required by 42 U.S.C. 7401, et. seq. (Clean Air Act as amended by the 1990 Clean Air Act Amendments), 40 CFR Part 70.6, IC 13-15 and IC 13-17.

Operation Permit No.: T001-31996-00005	
Issued by/Original Signed by: Jenny Acker, Section Chief Permits Branch Office of Air Quality	Issuance Date: October 24, 2013 Expiration Date: October 24, 2018

Significant Permit Modification No.: 001-35195-00005	
Issued by:  Jason R. Krawczyk, Section Chief Permits Branch Office of Air Quality	Issuance Date: April 14, 2015 Expiration Date: October 24, 2018

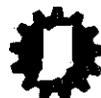


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Attachment A: 40 CFR 60, Subpart DD - Standards of Performance for Grain Elevators

Attachment B: 40 CFR 60, Subpart Dc - Standards of Performance for Small Industrial- Commercial-Institutional Steam Generating Units

Attachment C: 40 CFR 63, Subpart GGGG - National Emission Standards for Hazardous Air Pollutants: Solvent Extraction for Vegetable Oil Production

Attachment D: 40 CFR 63, Subpart DDDDD - National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters

Attachment E: 40 CFR 60, Subpart Db - Standards of Performance for Industrial - Commercial - Institutional Steam Generating Units

Attachment F: 40 CFR 60, Subpart IIII - Standards of Performance for Stationary Compression Ignition Internal Combustion Engines

Attachment G: 40 CFR 63, Subpart ZZZZ - National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines

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.4 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(14)] [326 IAC 2-7-1(22)]

The Permittee owns and operates a stationary grain handling, soybean meal production, and soybean oil extraction plant.

Source Address:	1200 N. 2nd Street, Decatur, Indiana 46733
General Source Phone Number:	(260)724-2101
SIC Code:	2075, 2079, and 5153
County Location:	Adams
Source Location Status:	Attainment for all criteria pollutants
Source Status:	Part 70 Operating Permit Program Major Source, under PSD Rules Major Source, Section 112 of the Clean Air Act Nested Source with fossil fuel fired boilers totaling more than two hundred fifty million (250,000,000) British thermal units per hour heat input, as 1 of 28 Source Categories, within a non-listed source

A.2 Emission Units and Pollution Control Equipment Summary [326 IAC 2-7-4(c)(3)] [326 IAC 2-7-5(14)]

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

- (a) Truck Dump #2, identified as 1EL1, constructed in 1980, with a maximum capacity of 600 tons per hour, using a baghouse for particulate matter (PM) control, and exhausting to stack 1EL. This is an affected facility under the New Source Performance Standard for Grain Elevators 40 CFR 60.300, Subpart DD.
- (b) The following grain elevator East Workhouse components, together identified as 2EL1, with a maximum throughput of 270 tons per hour (Bottlenecked to 240 tons per hour), each, unless otherwise stated, using a baghouse and oil suppressant for PM control, and exhausting to stack 2EL, consisting of:
 - (1) One (1) Megatex screener, approved for construction in 2013, with a maximum throughput of 300 tons per hour, using a baghouse, identified as 2EL4, for particulate control, and exhausting to stack 2EL4. This is an affected facility under the New Source Performance Standard for Grain Elevators 40 CFR 60.300, Subpart DD;
 - (2) One (1) #1 scalperator, constructed in 2011 and approved for modification in 2013, with a maximum throughput of 120 tons per hour, using a baghouse, identified as 2EL4, for particulate control, and exhausting to stack 2EL4. This is an affected facility under the New Source Performance Standard for Grain Elevators 40 CFR 60.300, Subpart DD;

- (3) One (1) #2 scalperator, constructed in 2011 and approved for modification in 2013, with a maximum throughput of 120 tons per hour, using a baghouse, identified as 2EL4, for particulate control, and exhausting to stack 2EL4. This is an affected facility under the New Source Performance Standard for Grain Elevators 40 CFR 60.300, Subpart DD;
 - (4) One (1) ext. screening bin, constructed prior to 1977;
 - (5) One (1) screening bin, constructed prior to 1977;
 - (6) One (1) solvent screening leg, constructed prior to 1977;
 - (7) One (1) #1 leg, constructed prior to 1977;
 - (8) One (1) #2 leg, constructed prior to 1977;
 - (9) One (1) #3 leg, constructed prior to 1977;
 - (10) One (1) west to east Hi-Roller, constructed prior to 1977;
 - (11) One (1) west to east belt loader, constructed prior to 1977;
 - (12) One (1) dry bean leg, constructed prior to 1977;
 - (13) One (1) #1 dryer Hi-Roller, constructed prior to 1977;
 - (14) One (1) weaver's belt, constructed prior to 1977; and
 - (15) One (1) 102 belt, constructed prior to 1977.
- (c) One (1) hammermill, permitted in 2010 for construction, identified as 2EL2, with a maximum capacity of 5.60 tons per hour, using a baghouse as control (Unit ID 2EL2), and exhausting to stack 2EL2.
- (d) One (1) pneumatic conveying system, permitted in 2010 for construction, identified as 2EL3, with a maximum capacity of 5.60 tons per hour, using a baghouse for control (Unit ID 22EX2) as control, and exhausting to stack 22EX2.
- (e) The following grain elevator components, together identified as 5EL1, with a maximum throughput of 900 tons per hour, each, using a baghouse and oil suppressant for PM control, and exhausting to stack 5EL, consisting of:
- (1) One (1) north tripper buggy, constructed prior to 1977;
 - (2) One (1) north galley belt loader, constructed prior to 1977;
 - (3) One (1) east west belt, constructed prior to 1977; and
 - (4) One (1) bin 102, constructed prior to 1977.
- (f) One (1) north west receiving house enclosed conveyor identified as 8EL1, constructed prior to 1977, with a maximum throughput of 360 tons per hour, using oil suppressant for PM control, with no aspiration.

- (g) The following grain elevator components together identified as 10EL1, with a maximum throughput of 720 tons per hour, each, using a baghouse and oil suppressant for PM control, and exhausting to stack 10EL, consisting of:
- (1) One (1) rail loadout, constructed in 1984. This is an affected facility under the New Source Performance Standard for Grain Elevators 40 CFR 60.300, Subpart DD;
 - (2) One (1) rail receiving, constructed in 1960;
 - (3) One (1) north leg, constructed prior to 1960; and
 - (4) One (1) south leg, constructed prior to 1960.
- (h) The following grain elevator components together identified as 14EL1, with a maximum throughput of 600 tons per hour, each, using a baghouse and oil suppressant for PM control, and exhausting to stack 14EL, consisting of:
- (1) One (1) jumbo silo east galley belt, constructed prior to 1977;
 - (2) One (1) jumbo silo west galley belt, constructed prior to 1977;
 - (3) One (1) jumbo silo crossover galley belt, constructed prior to 1977;
- (i) One (1) natural gas fired grain dryer #2, identified as 19EL1, constructed in 1995, with a maximum capacity of 60 tons per hour and a maximum heat input capacity of 7 MMBtu/hr, using self-cleaning screens for PM control, and exhausting to vent 19EL. This is an affected facility under the New Source Performance Standard for Grain Elevators 40 CFR 60.300, Subpart DD.
- (j) One (1) truck dump #7, identified as 20EL1, constructed in 1997, with a maximum throughput of 450 tons per hour, consisting of one (1) weigh scale truck unloading pit, and two (2) enclosed bucket elevator legs, using two (2) baghouses in parallel for PM control, and exhausting to stack 20EL. This is an affected facility under the New Source Performance Standard for Grain Elevators 40 CFR 60.300, Subpart DD.
- (k) Silo bin vents, identified as 3EL1, constructed prior to 1977, with a maximum throughput of 900 tons per hour, total, using soybean oil as a dust suppressant, and exhausting to vent 3EL.
- (l) Silo direct loadout, identified as 4EL1, constructed prior to 1977, with a maximum throughput of 270 tons per hour, using soybean oil as a dust suppressant.
- (m) One (1) south tripper buggy, one (1) south galley belt loader, and one (1) north south belt, identified as 6EL1, all constructed prior to 1977, with a maximum throughput of 900 tons per hour, each, using a baghouse and oil suppressant for PM control, and exhausting to stack 6EL.
- (n) One (1) south west receiving house enclosed conveyor, identified as 7EL1, constructed prior to 1977, with a maximum throughput of 360 tons per hour, using oil suppressant for PM control with no aspiration.
- (o) One (1) truck dump #3, identified as 9EL1, constructed in 1976, with a maximum throughput of 900 tons per hour, using a baghouse for PM control, and exhausting to stack 9EL.

- (p) One (1) truck dump #5, identified as 12EL1, constructed prior to 1977, with a maximum throughput of 600 tons per hour, using a baghouse for PM control, and exhausting to stack 12EL.
- (q) One (1) jumbo silo east tunnel belt, one (1) jumbo silo west tunnel belt, and one (1) jumbo silo crossover tunnel belt, identified as 13EL1, all constructed prior to 1977, with a maximum throughput of 360 tons per hour, each, using a baghouse and oil suppressant for PM control, and exhausting to stack 13EL.
- (r) One (1) truck dump #6, identified as 15EL1, constructed prior to 1977, with a maximum throughput of 360 tons per hour, using a baghouse for PM control, and exhausting to stack 15EL.
- (s) One (1) natural gas fired grain dryer #1, identified as 16EL1, constructed in 1986, with a maximum capacity of 75 tons per hour and a maximum heat input capacity of 7 MMBtu/hr, using self-cleaning screens for PM control, and exhausting to stack 16EL. This is an affected facility under the New Source Performance Standard for Grain Elevators 40 CFR 60.300, Subpart DD.
- (t) Two (2) natural gas fired grain dryers, #4 and #5, identified as 17EL1, constructed in the 1960's, with a maximum capacity of 150 tons per hour and a maximum heat input capacity of 14 MMBtu/hr, total, using self-cleaning screens for PM control, and exhausting to vent 17EL.
- (u) One (1) Lec. Dept. filter aid unit, identified as 204RO1, constructed in 1980, with a maximum throughput of 2.5 tons per hour, using a baghouse for PM control, and exhausting to stack 204RO.
- (v) Daily use bins, identified as 102EO1, constructed in 1976, with a maximum throughput of 2.5 tons per hour, each, using a baghouse for PM control, and exhausting to stack 102EO.
- (w) Filter aid silos, identified as 103EO1, constructed in 1976, with a maximum throughput of 16 tons per hour, each, using a baghouse for PM control, and exhausting to stack 103EO.
- (x) One (1) natural gas fired hydrogen generator furnace, identified as 107EO1, constructed in 1992, with a maximum heat input capacity of 25.2 MMBtu/hr, and exhausting to stack 107EO. Under 40 CFR 60, Subpart Dc, 107EO1 is considered an affected facility. Under 40 CFR 63, Subpart DDDDD, 107EO1 is considered an existing affected source.
- (y) Salt conveying, identified as 4SP1, constructed in 1981, with a maximum throughput of 21 tons per hour, using a baghouse for PM control, and exhausting to stack 4SP.
- (z) Six (6) flaking rolls, #1, #2, #3, #4, #5, and #6, constructed in 1996, and B flake n/s drag, constructed in 1991, all identified together as 1EX1, with a maximum throughput of 93.1 tons per hour, total, using fabric filters for PM control, and exhausting to stack 1EX.
- (aa) One (1) flaking roll #14 and flaking roll discharge #14, identified as 1EX2, constructed in 1991, with a maximum throughput of 93.1 tons per hour, each, using fabric filters for PM control, and exhausting to stack 1EX.
- (bb) The following soybean processing equipment, together identified as 3EX1, with a maximum throughput of 48.8 tons per hour, each, sharing a cyclone with 3EX2 for PM control, and exhausting to stack 3EX, consisting of:

- (1) Four (4) flaking rolls, #9, #10, #11, and #12, constructed in 1978;
 - (2) One (1) flaking roll #13, constructed in 1985;
 - (3) One (1) 'A' flake n/s drag, constructed in 1993; and
 - (4) One (1) 'A' flake e/w drag, constructed in 1993.
- (cc) One (1) north run around drag, identified as 3EX2, constructed in 1984, with a maximum throughput of 48.8 tons per hour, sharing a cyclone with 3EX1, and exhausting to stack 3EX.
- (dd) The following soybean processing equipment, together identified as 4EX1, with a maximum throughput of 156.3 tons per hour, each, sharing a baghouse with 4EX2 and 4EX3 for PM control, and exhausting to stack 4EX, consisting of:
- (1) One (1) whole bean scale, constructed in 1989;
 - (2) One (1) 'A' whole bean leg, constructed in 1997;
 - (3) One (1) 'A' surge bin, constructed prior to 1979;
 - (4) One (1) whole bean drag, constructed in 1981; and
 - (5) One (1) 'B' surge bin, constructed prior to 1979.
- (ee) A run around rework screw, identified as 4EX2, constructed in 1991, with a maximum throughput of 156.3 tons per hour, sharing a baghouse with 4EX1 and 4EX3 for PM control, and exhausting to stack 4EX.
- (ff) The following soybean processing equipment, together identified as 4EX3, with a maximum throughput of 156.3 tons per hour, each, sharing a baghouse with 4EX1 and 4EX2 for PM control, and exhausting to stack 4EX, consisting of:
- (1) One (1) hull refining screw conveyor, constructed in 1991;
 - (2) One (1) hull refining process, constructed in 1991; and
 - (3) One (1) hull grinding process, constructed in 1987.
- (gg) Dehulling equipment, identified as 5EX1, constructed in 1997, with a maximum throughput of 156.3 tons per hour, sharing a baghouse with 5EX3 for PM control, and exhausting to stack 5EX.
- (hh) Hot dehulling equipment, identified as 5EX2, constructed in 1991, with a maximum throughput of 156.3 tons per hour, using a water knock out box for PM control.
- (ii) Screening aspiration, identified as 5EX3, constructed in 1988, with a maximum throughput of 156.3 tons per hour, sharing a baghouse with 5EX1 for PM control, and exhausting to stack 5EX.
- (jj) Truck meal loadout and rail meal loadout, identified as 6EX1, constructed in 1982, replaced in 1999, with a maximum throughput of 150 tons per hour, with truck meal loadout using a baghouse for PM control, and exhausting to stack 6EX, and rail meal loadout using a choke loader for intrinsic PM control of fugitive emissions.

- (kk) One (1) soybean meal sizing and grinding operation, collectively identified as 7EX, approved in 2010 for construction, using a baghouse for PM control, and exhausting to stack 7EX, consisting of:
 - (1) One (1) meal screener, identified as 7EX1, with a maximum capacity of 176 tons per hour;
 - (2) Four (4) meal grinders, identified as 7EX2 through 7EX5, each with a maximum capacity of 45 tons per hour; and
 - (3) Associated conveyors.
- (ll) One (1) leg No. 2, one (1) mixing conveyor, and one (1) bin drag, together identified as 9EX1, all constructed in 1983, with a maximum throughput of 125 tons per hour, each, using a baghouse for PM control, and exhausting to stack 9EX.
- (mm) The following soybean processing equipment, together identified as 10EX1, with a maximum throughput of 333 tons per hour, each, using a baghouse for PM control, and exhausting to stack 10EX, consisting of:
 - (1) One (1) leg No. 3, constructed in the 1950's;
 - (2) One (1) tunnel drag, constructed in 1983; and
 - (3) One (1) meal loadout drag, constructed in 1982.
- (nn) One (1) kaolin bin, identified as 11EX1, constructed in the 1950's, with a maximum throughput of 15 tons per hour, using a baghouse for PM control, and exhausting to stack 11EX.
- (oo) One (1) meal loadout bin, identified as 12EX1, constructed in 1982, with a maximum throughput of 540 tons per hour, using a baghouse for PM control, and exhausting to stack 12EX.
- (pp) One (1) belt to storage bowls, one (1) large storage bowl, and one (1) small storage bowl, identified as 16EX1, 16EX2, and 16EX3, respectively, all constructed in 1982, with a maximum capacity of 93 tons per hour, each, with no PM control, and exhausting to stack 16EX.
- (qq) Whole bean bins, identified as 18EX1, constructed in the 1940's, with a maximum throughput of 156.3 tons per hour, total, with no PM control, and exhausting to stack 18EX.
- (rr) Meal storage silos with bin vents, identified as 23EX1, constructed in the 1950's, with a maximum throughput of 125 tons per hour, total, using one (1) bin vent filter as control, exhausting to stack 23EX.
- (ss) One (1) natural gas fired steam generator, identified as 110EO1, constructed in 2002, with a maximum heat input capacity of 14 MMBtu/hr, and exhausting to stack 110EO. Under 40 CFR 60, Subpart Dc, 110EO1 is considered an affected facility. Under 40 CFR 63, Subpart DDDDD, 110EO1 is considered an existing affected source.
- (tt) One (1) natural gas fired steam generator #3, identified as 108EO1, constructed in 1994, with a maximum heat input capacity of 14 MMBtu/hr, and exhausting to stack 108EO. Under 40 CFR 60, Subpart Dc, 108EO1 is considered an affected facility. Under 40 CFR 63, Subpart DDDDD, 108EO1 is considered an existing affected source.

- (uu) One (1) B & W coal fired boiler, identified as 1SP1, constructed in 1950, with a maximum heat input capacity of 108 MMBtu/hr, using multiple cyclones and a baghouse for control of particulate and HAPs, and exhausting to stack 1SP. Under 40 CFR 63, Subpart DDDDD, 1SP1 is considered an existing affected source.
- (vv) One (1) Keeler coal fired boiler, identified as 2SP1, constructed in 1963, with a maximum heat input capacity of 52.75 MMBtu/hr, using multiple cyclones and a baghouse for control of particulate and HAPs, and exhausting to stack 1SP. Under 40 CFR 63, Subpart DDDDD, 2SP1 is considered an existing affected source.
- (ww) One (1) Murray natural gas fired boiler, identified as 3SP1, constructed in 1968, with a maximum heat input capacity of 110.2 MMBtu/hr, and exhausting to stack 1SP. Under 40 CFR 63, Subpart DDDDD, 3SP1 is considered an existing affected source.
- (xx) One (1) hexane extraction system, identified collectively as 24EX, modified prior to 1980, with hexane emissions from the vent system controlled by a mineral oil absorber, and exhausting to stack 24EXA. For reporting purposes, all hexane emissions are collectively accounted for in the total hexane losses named 24EX.
 - (1) One (1) 'A' unit, identified as 24EX1, consisting of 'A' pre-DT, constructed in 1996, 'A' DT, constructed in 1980, and the 'A' Meal Dryer, constructed in 1980, with a maximum capacity of 109.4 tons per hour, each. 'A' pre-DT is on top of and feeds the 'A' DT, which is on top of and feeds the 'A' Meal Dryer. The 'A' pre-DT and the 'A' DT exhaust to the hexane solvent reclaim system. The 'A' Meal Dryer uses an integral cyclone for product recovery, which also provides PM control, and exhausts to stack 24EX1. Hexane emissions are reported in 24EX.
 - (2) One (1) 'B' unit, identified as 24EX2, consisting of 'B' pre-DT, constructed in 1996, 'B' DT, constructed in 1980, and the 'B' Meal Dryer, constructed in 1980, with a maximum capacity of 109.4 tons per hour, each. 'B' pre-DT is on top of and feeds the 'B' DT which is on top of and feeds the 'B' Meal Dryer. The 'B' pre-DT and the 'B' DT exhaust to the hexane solvent reclaim system. The 'B' Meal Dryer uses an integral cyclone for product recovery, which also provides PM control, and exhausts to stack 24EX2. Hexane emissions are reported in 24EX.
 - (3) One meal cooler, identified as 24EX3, constructed in 1996, with a maximum capacity of 110 tons per hour, using two (2) integral cyclones for product recovery, which also provide PM control, exhausting to stacks 24EX3A and 24EX3B, respectively, with hexane emissions reported in 24EX.
 - (4) Two (2) hexane storage tanks, identified as 24EX4A and 24EX4B, constructed in 1995 and 2005, respectively, with emissions vented to the mineral oil absorber inlet, with hexane emissions reported in 24EX.
 - (5) One (1) wastewater system, identified as 24EX5, constructed prior to 1980, containing traces of hexane, exhausting to the extraction hot water separation pit, with hexane emissions reported in 24EX.
 - (6) One (1) refined oil hot well, identified as 24EX6, constructed in 1975, with hexane emissions reported in 24EX.
 - (7) One (1) sampling /hexane unloading port, identified as 24EX7, with hexane emissions reported in 24EX.

- (8) Oil tanks containing non-deodorized oil, identified as 24EX8, venting to the atmosphere, with hexane emissions reported at 24EX.

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

- (yy) The following soybean processing equipment, identified as 17EX2, modified in 1987, with a maximum throughput of 156.3 tons per hour, each, using a cyclone for PM control, and exhausting to stack 17EX, consisting of:
- (1) One (1) flaking roll #8, constructed in 1981; and
 - (2) One (1) 'B' flake e/w drag, constructed in 1980.
- (zz) Two (2) conditioners identified as 31EX1 and 31EX2 constructed in 2002, with a maximum capacity of 156.3 tons per hour for each conditioner, and exhausting internally.
- (aaa) One (1) enclosed pneumatic ash conveying and loading operation, constructed in the 1950's, identified as emission unit 8SP1 and 8SP2, with a maximum throughput of 13.8 tons per hour, using a baghouse for emission control, and exhausting to stack 1SP. The ash loading operation uses water spray for fugitive emission mitigation.
- (bbb) One (1) batch enzyme bag unloader, with a maximum throughput rate of 51 tons per year, identified as 112EO1, approved in 2009 for construction, using a baghouse for emission control and exhausting to stack 112EO.
- This emission unit is not an affected facility under the National Emission Standards for Hazardous Air Pollutants: Solvent Extraction for Vegetable Oil Production 40 CFR 63, Subpart GGGG.
- (ccc) One (1) pelletizer/pellet cooler to produce pellets from the existing dehulling/grinding (millfeed) system, approved in 2009 for construction, with a maximum rate of 10 tons per hour, identified as 32EX1, using a high efficiency cyclone for emission control and exhausting to stack 32EX.
- (ddd) One (1) totally enclosed conveyor, approved in 2009 for construction, with a maximum rate of 10 tons per hour, identified as 32EX2.
- (eee) One (1) loadout bin, identified as 29EX1, constructed in 1994, with a maximum throughput of 10 tons per hour, using a bin vent filter for PM control, and exhausting to stack 29EX.
- (fff) One (1) natural gas-fired boiler, identified as 9SP1, constructed in 2013, with a maximum heat input capacity of 99 MMBtu/hr, equipped with low NOx burners and flue gas recirculation (FGR) for NOx control, and exhausting to stack 9SP. Under 40 CFR 60, Subpart Dc, 9SP1 is considered an affected facility. Under 40 CFR 63, Subpart DDDDD, 9SP1 is considered a new affected facility.
- (ggg) One (1) Millfeed storage bin, identified as 22EX, with a maximum capacity of 156.3 tons/hr, using fabric filter as control and exhausting to stack 22EX.
- (hhh) One (1) Coal receiving, handling and storage operation, identified as 6SP, with a maximum capacity of 150 tons/hr each and exhausting to stack 6SP.

- (iii) One (1) B & W natural gas-fired boiler, identified as 10SP1, approved in 2015 for installation, with a maximum heat input capacity of 178.41 MMBtu/hr, using low NOx burners and flue gas recirculation, and exhausting to stack 10SP. Under 40 CFR 60, Subpart Db, 10SP1 is considered an affected facility. Under 40 CFR 63, Subpart DDDDD, 10SP1 is considered a new affected source.

A.3 Specifically Regulated Insignificant Activities [326 IAC 2-7-1(21)] [326 IAC 2-7-4(c)]
[326 IAC 2-7-5(14)]

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

- (a) Paved and unpaved roads and parking lots with public access [326 IAC 6-4].
- (b) Stationary fire pumps, as follows:
 - (1) Two (2) stationary diesel-fired fire pump engine, constructed in 1980, permitted in 2008, with a maximum power output rate of 380 hp.
 - (2) One (1) stationary diesel-fired fire pump engine, permitted in 2008, with a maximum power output rate of 85 hp.

This is an affected source under National Emission Standards for Hazardous Air Pollutants: Stationary Reciprocating Internal Combustion Engines [40 CFR 63, Subpart ZZZZ] and New Standards of Performance (NSPS) for Stationary Compression Ignition Internal Combustion Engines [40 CFR 60, Subpart IIII].

A.4 Insignificant Activities [326 IAC 2-7-1(21)] [326 IAC 2-7-4(c)] [326 IAC 2-7-5(14)]

This stationary source also includes the following insignificant activities:

- (a) Natural gas-fired combustion sources with heat input equal to or less than ten million (10,000,000) British thermal units per hour.
- (b) Propane or liquified petroleum gas, or butane-fired combustion sources with heat input equal to or less than six million (6,000,000) British thermal units per hour.
- (c) Combustion source flame safety purging on start-up.
- (d) A gasoline fuel transfer and dispensing operation handling less than or equal to 1,300 gallons per day, such as filling of tanks, locomotives, automobiles, having a storage capacity less than or equal to 10,500 gallons.
- (e) A petroleum fuel, other than gasoline, dispensing facility having a storage capacity less than or equal to 10,500 gallons, and dispensing less than or equal to 23,000 gallons per month.
- (f) Vessels storing lubricating oils, hydraulic oils, machining oils, and machining fluids.
- (g) Machining where an aqueous cutting coolant continuously floods the machining interface.
- (h) Degreasing operations that do not exceed 145 gallons per 12 months, and not subject to 326 IAC 20-6.
- (i) Cleaners and solvents characterized as follows:
 - (1) having a vapor pressure equal to or less than 2 kPa; 15 mmHg; or 0.3 psi measured at 38 degrees C (100°F); or

- (2) having a vapor pressure equal to or less than 0.7 kPa; 5 mmHg; or 0.1 psi measured at 20 degrees C (68°F);

the use of which for all cleaners and solvents combined does not exceed 145 gallons per 12 months.

- (j) Closed loop heating and cooling systems.
- (k) Activities associated with the treatment of wastewater streams with an oil and grease content less than or equal to 1% by volume.
- (l) Water based adhesives that are less than or equal to 5% by volume of VOCs, excluding HAPs.
- (m) Noncontact cooling tower systems with natural draft cooling towers not regulated under a NESHAP.
- (n) Replacement or repair of electrostatic precipitators, bags in baghouses, and filters in other filtrations equipment.
- (o) Heat exchanger cleaning and repair.
- (p) Process vessel degreasing and cleaning to prepare for internal repairs.
- (q) Underground conveyors.
- (r) Coal bunker and coal scale exhausts and associated dust collector vents.
- (s) Asbestos abatement projects regulated by 326 IAC 14-10.
- (t) Purging of gas lines and vessels that is related to routine maintenance and repair of buildings, structures, or vehicles at the source where air emissions from those activities would not be associated with any production process.
- (u) Equipment used to collect any material that might be released during a malfunction, process upset, or spill cleanup, including catch tanks, temporary liquid separators, tanks, and fluid handling equipment.
- (v) Blowdown for any of the following: sight glass, boiler, compressors, pumps, and cooling tower.
- (x) Purge double block and bleed valves.
- (y) Filter or coalescer media changeout.
- (z) Vents from ash transport systems not operated at positive pressure.
- (aa) A laboratory as defined in 326 IAC 2-7-1(21)(D).
- (bb) Emission units with PM and PM10 emissions less than five (5) tons per year, SO₂, NO_x, and VOC emissions less than ten (10) tons per year, CO emissions less than twenty-five (25) tons per year, lead emissions less than two-tenths (0.2) tons per year, single HAP emissions less than one (1) ton per year, and combination of HAPs emissions less than two and a half (2.5) tons per year, consisting of:

- (1) One (1) acetic anhydride storage tank.
- (2) One (1) Hoffman vacuum system, for housekeeping.
- (3) One (1) elevator/railcar pest control/fumigation.
- (4) One (1) Flake drag air brake fan, 15EX.

A.5 Part 70 Permit Applicability [326 IAC 2-7-2]

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

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

SECTION B GENERAL CONDITIONS

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

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

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

- (a) This permit, T001-31996-00005, is issued for a fixed term of five (5) years from the issuance date of this permit, as determined in accordance with IC 4-21.5-3-5(f) and IC 13-15-5-3. Subsequent revisions, modifications, or amendments of this permit do not affect the expiration date of this permit.
- (b) If IDEM, OAQ, upon receiving a timely and complete renewal permit application, fails to issue or deny the permit renewal prior to the expiration date of this permit, this existing permit shall not expire and all terms and conditions shall continue in effect, including any permit shield provided in 326 IAC 2-7-15, until the renewal permit has been issued or denied.

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

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

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

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

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

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

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

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

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

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

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

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

-
- (a) A certification required by this permit meets the requirements of 326 IAC 2-7-6(1) if:

- (1) it contains a certification by a "responsible official" as defined by 326 IAC 2-7-1(35), and
 - (2) the certification states that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.
- (b) The Permittee may use the attached Certification Form, or its equivalent with each submittal requiring certification. One (1) certification may cover multiple forms in one (1) submittal.
 - (c) A "responsible official" is defined at 326 IAC 2-7-1(35).

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

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

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

and

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

- (b) The annual compliance certification report required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ on or before the date it is due.
- (c) The annual compliance certification report shall include the following:
 - (1) The appropriate identification of each term or condition of this permit that is the basis of the certification;
 - (2) The compliance status;
 - (3) Whether compliance was continuous or intermittent;
 - (4) The methods used for determining the compliance status of the source, currently and over the reporting period consistent with 326 IAC 2-7-5(3); and
 - (5) Such other facts, as specified in Sections D of this permit, as IDEM, OAQ may require to determine the compliance status of the source.

The submittal by the Permittee does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(35).

B.10 Preventive Maintenance Plan [326 IAC 2-7-5(12)][326 IAC 1-6-3]

(a) A Preventive Maintenance Plan meets the requirements of 326 IAC 1-6-3 if it includes, at a minimum:

- (1) Identification of the individual(s) responsible for inspecting, maintaining, and repairing emission control devices;
- (2) A description of the items or conditions that will be inspected and the inspection schedule for said items or conditions; and
- (3) Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.

The Permittee shall implement the PMPs.

(b) If required by specific condition(s) in Section D of this permit where no PMP was previously required, the Permittee shall prepare and maintain Preventive Maintenance Plans (PMPs) no later than ninety (90) days after issuance of this permit or ninety (90) days after initial start-up, whichever is later, including the following information on each facility:

- (1) Identification of the individual(s) responsible for inspecting, maintaining, and repairing emission control devices;
- (2) A description of the items or conditions that will be inspected and the inspection schedule for said items or conditions; and
- (3) Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.

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

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

The PMP extension notification does not require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(35).

The Permittee shall implement the PMPs.

(c) A copy of the PMPs shall be submitted to IDEM, OAQ upon request and within a reasonable time, and shall be subject to review and approval by IDEM, OAQ. IDEM, OAQ may require the Permittee to revise its PMPs whenever lack of proper maintenance causes or is the primary contributor to an exceedance of any limitation on emissions. The PMPs and their submittal do not require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(35).

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

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

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

Telephone Number: 1-800-451-6027 (ask for Office of Air Quality, Compliance and Enforcement Branch), or
Telephone Number: 317-233-0178 (ask for Office of Air Quality, Compliance and Enforcement Branch)
Facsimile Number: 317-233-6865

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

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

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

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

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

The notification which shall be submitted by the Permittee does not require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(35).

- (6) The Permittee immediately took all reasonable steps to correct the emergency.
- (c) In any enforcement proceeding, the Permittee seeking to establish the occurrence of an emergency has the burden of proof.
- (d) This emergency provision supersedes 326 IAC 1-6 (Malfunctions). This permit condition is in addition to any emergency or upset provision contained in any applicable requirement.
- (e) The Permittee seeking to establish the occurrence of an emergency shall make records available upon request to ensure that failure to implement a PMP did not cause or contribute to an exceedance of any limitations on emissions. However, IDEM, OAQ may require that the Preventive Maintenance Plans required under 326 IAC 2-7-4(c)(8) be revised in response to an emergency.
- (f) Failure to notify IDEM, OAQ by telephone or facsimile of an emergency lasting more than one (1) hour in accordance with (b)(4) and (5) of this condition shall constitute a violation of 326 IAC 2-7 and any other applicable rules.
- (g) If the emergency situation causes a deviation from a technology-based limit, the Permittee may continue to operate the affected emitting facilities during the emergency provided the Permittee immediately takes all reasonable steps to correct the emergency and minimize emissions.

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

- (a) Pursuant to 326 IAC 2-7-15, the Permittee has been granted a permit shield. The permit shield provides that compliance with the conditions of this permit shall be deemed compliance with any applicable requirements as of the date of permit issuance, provided that either the applicable requirements are included and specifically identified in this permit or the permit contains an explicit determination or concise summary of a determination that other specifically identified requirements are not applicable. The Indiana statutes from IC 13 and rules from 326 IAC, referenced in conditions in this permit, are those applicable at the time the permit was issued. The issuance or possession of this permit shall not alone constitute a defense against an alleged violation of any law, regulation or standard, except for the requirement to obtain a Part 70 permit under 326 IAC 2-7 or for applicable requirements for which a permit shield has been granted.

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

- (b) If, after issuance of this permit, it is determined that the permit is in nonconformance with an applicable requirement that applied to the source on the date of permit issuance, IDEM, OAQ, shall immediately take steps to reopen and revise this permit and issue a compliance order to the Permittee to ensure expeditious compliance with the applicable requirement until the permit is reissued. The permit shield shall continue in effect so long as the Permittee is in compliance with the compliance order.
- (c) No permit shield shall apply to any permit term or condition that is determined after issuance of this permit to have been based on erroneous information supplied in the permit application. Erroneous information means information that the Permittee knew to

be false, or in the exercise of reasonable care should have been known to be false, at the time the information was submitted.

- (d) Nothing in 326 IAC 2-7-15 or in this permit shall alter or affect the following:
- (1) The provisions of Section 303 of the Clean Air Act (emergency orders), including the authority of the U.S. EPA under Section 303 of the Clean Air Act;
 - (2) The liability of the Permittee for any violation of applicable requirements prior to or at the time of this permit's issuance;
 - (3) The applicable requirements of the acid rain program, consistent with Section 408(a) of the Clean Air Act; and
 - (4) The ability of U.S. EPA to obtain information from the Permittee under Section 114 of the Clean Air Act.
- (e) This permit shield is not applicable to any change made under 326 IAC 2-7-20(b)(2) (Sections 502(b)(10) of the Clean Air Act changes) and 326 IAC 2-7-20(c)(2) (trading based on State Implementation Plan (SIP) provisions).
- (f) This permit shield is not applicable to modifications eligible for group processing until after IDEM, OAQ, has issued the modifications. [326 IAC 2-7-12(c)(7)]
- (g) This permit shield is not applicable to minor Part 70 permit modifications until after IDEM, OAQ, has issued the modification. [326 IAC 2-7-12(b)(8)]

B.13 Prior Permits Superseded [326 IAC 2-1.1-9.5] [326 IAC 2-7-10.5]

- (a) All terms and conditions of permits established prior to T001-31996-00005 and issued pursuant to permitting programs approved into the state implementation plan have been either:
- (1) incorporated as originally stated,
 - (2) revised under 326 IAC 2-7-10.5, or
 - (3) deleted under 326 IAC 2-7-10.5.
- (b) Provided that all terms and conditions are accurately reflected in this permit, all previous registrations and permits are superseded by this part 70 operating permit.

B.14 Termination of Right to Operate [326 IAC 2-7-10] [326 IAC 2-7-4(a)]

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

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

- (a) This permit may be modified, reopened, revoked and reissued, or terminated for cause. The filing of a request by the Permittee for a Part 70 Operating Permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any condition of this permit. [326 IAC 2-7-5(6)(C)] The notification by the Permittee does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(35).

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

B.16 Permit Renewal [326 IAC 2-7-3] [326 IAC 2-7-4] [326 IAC 2-7-8(e)]

- (a) The application for renewal shall be submitted using the application form or forms prescribed by IDEM, OAQ and shall include the information specified in 326 IAC 2-7-4. Such information shall be included in the application for each emission unit at this source, except those emission units included on the trivial or insignificant activities list contained in 326 IAC 2-7-1(21) and 326 IAC 2-7-1(42). The renewal application does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(35).

Request for renewal shall be submitted to:

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

- (b) A timely renewal application is one that is:
 - (1) Submitted at least nine (9) months prior to the date of the expiration of this permit; and
 - (2) If the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ on or before the date it is due.
- (c) If the Permittee submits a timely and complete application for renewal of this permit, the source's failure to have a permit is not a violation of 326 IAC 2-7 until IDEM, OAQ takes final action on the renewal application, except that this protection shall cease to apply if, subsequent to the completeness determination, the Permittee fails to submit by the deadline specified, pursuant to 326 IAC 2-7-4(a)(2)(D), in writing by IDEM, OAQ any additional information identified as being needed to process the application.

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

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

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

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

Any such application does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(35).

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

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

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

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

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

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

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

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

and

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

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

- (5) The Permittee maintains records on-site, on a rolling five (5) year basis, which document all such changes and emission trades that are subject to 326 IAC 2-7-20(b)(1) and (c)(1). The Permittee shall make such records available, upon reasonable request, for public review.

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

- (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(37)) without a permit revision, subject to the constraint of 326 IAC 2-7-20(a). For each such Section 502(b)(10) of the Clean Air Act change, the required written notification shall include the following:

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

The notification which shall be submitted is not considered an application form, report or compliance certification. Therefore, the notification by the Permittee does not require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(35).

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

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

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

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

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

- (a) Enter upon the Permittee's premises where a Part 70 source is located, or emissions related activity is conducted, or where records must be kept under the conditions of this permit;
- (b) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, have access to and copy any records that must be kept under the conditions of this permit;
- (c) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, inspect any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit;
- (d) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, sample or monitor substances or parameters for the purpose of assuring compliance with this permit or applicable requirements; and
- (e) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, utilize any photographic, recording, testing, monitoring, or other equipment for the purpose of assuring compliance with this permit or applicable requirements.

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

- (a) The Permittee must comply with the requirements of 326 IAC 2-7-11 whenever the Permittee seeks to change the ownership or operational control of the source and no other change in the permit is necessary.
- (b) Any application requesting a change in the ownership or operational control of the source shall contain a written agreement containing a specific date for transfer of permit responsibility, coverage and liability between the current and new Permittee. The application shall be submitted to:

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

Any such application does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(35).

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

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

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

- (b) Except as provided in 326 IAC 2-7-19(e), failure to pay may result in administrative enforcement action or revocation of this permit.
- (c) The Permittee may call the following telephone numbers: 1-800-451-6027 or 317-233-4230 (ask for OAQ, Billing, Licensing, and Training Section), to determine the appropriate permit fee.

B.24 Credible Evidence [326 IAC 2-7-5(3)] [326 IAC 2-7-6] [62 FR 8314] [326 IAC 1-1-6]

For the purpose of submitting compliance certifications or establishing whether or not the Permittee has violated or is in violation of any condition of this permit, nothing in this permit shall preclude the use, including the exclusive use, of any credible evidence or information relevant to whether the Permittee would have been in compliance with the condition of this permit if the appropriate performance or compliance test or procedure had been performed.

SECTION C

SOURCE OPERATION CONDITIONS

Entire Source

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

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

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

C.2 Opacity [326 IAC 5-1]

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

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

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

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

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

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

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

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

C.6 Stack Height [326 IAC 1-7]

The Permittee shall comply with the applicable provisions of 326 IAC 1-7 (Stack Height Provisions), for all exhaust stacks through which a potential (before controls) of twenty-five (25) tons per year or more of particulate matter or sulfur dioxide is emitted by using ambient air quality modeling pursuant to 326 IAC 1-7-4. The provisions of 326 IAC 1-7-1(3), 326 IAC 1-7-2, 326 IAC 1-7-3(c) and (d), 326 IAC 1-7-4, and 326 IAC 1-7-5(a), (b), and (d) are not federally enforceable.

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

- (a) Notification requirements apply to each owner or operator. If the combined amount of regulated asbestos containing material (RACM) to be stripped, removed or disturbed is at least 260 linear feet on pipes or 160 square feet on other facility components, or at least

thirty-five (35) cubic feet on all facility components, then the notification requirements of 326 IAC 14-10-3 are mandatory. All demolition projects require notification whether or not asbestos is present.

- (b) The Permittee shall ensure that a written notification is sent on a form provided by the Commissioner at least ten (10) working days before asbestos stripping or removal work or before demolition begins, per 326 IAC 14-10-3, and shall update such notice as necessary, including, but not limited to the following:
 - (1) When the amount of affected asbestos containing material increases or decreases by at least twenty percent (20%); or
 - (2) If there is a change in the following:
 - (A) Asbestos removal or demolition start date;
 - (B) Removal or demolition contractor; or
 - (C) Waste disposal site.
- (c) The Permittee shall ensure that the notice is postmarked or delivered according to the guidelines set forth in 326 IAC 14-10-3(2).
- (d) The notice to be submitted shall include the information enumerated in 326 IAC 14-10-3(3).

All required notifications shall be submitted to:

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

The notice shall include a signed certification from the owner or operator that the information provided in this notification is correct and that only Indiana licensed workers and project supervisors will be used to implement the asbestos removal project. The notifications do not require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(35).

- (e) **Procedures for Asbestos Emission Control**
The Permittee shall comply with the applicable emission control procedures in 326 IAC 14-10-4 and 40 CFR 61.145(c). Per 326 IAC 14-10-1, emission control requirements are applicable for any removal or disturbance of RACM greater than three (3) linear feet on pipes or three (3) square feet on any other facility components or a total of at least 0.75 cubic feet on all facility components.
- (f) **Demolition and Renovation**
The Permittee shall thoroughly inspect the affected facility or part of the facility where the demolition or renovation will occur for the presence of asbestos pursuant to 40 CFR 61.145(a).
- (g) **Indiana Licensed Asbestos Inspector**
The Permittee shall comply with 326 IAC 14-10-1(a) that requires the owner or operator, prior to a renovation/demolition, to use an Indiana Licensed Asbestos Inspector to

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

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

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

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

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

no later than thirty-five (35) days prior to the intended test date. The protocol submitted by the Permittee does not require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(35).

- (b) The Permittee shall notify IDEM, OAQ of the actual test date at least fourteen (14) days prior to the actual test date. The notification submitted by the Permittee does not require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(35).
- (c) Pursuant to 326 IAC 3-6-4(b), all test reports must be received by IDEM, OAQ not later than forty-five (45) days after the completion of the testing. An extension may be granted by IDEM, OAQ if the Permittee submits to IDEM, OAQ a reasonable written explanation not later than five (5) days prior to the end of the initial forty-five (45) day period.

Compliance Requirements [326 IAC 2-1.1-11]

C.9 Compliance Requirements [326 IAC 2-1.1-11]

The commissioner may require stack testing, monitoring, or reporting at any time to assure compliance with all applicable requirements by issuing an order under 326 IAC 2-1.1-11. Any monitoring or testing shall be performed in accordance with 326 IAC 3 or other methods approved by the commissioner or the U. S. EPA.

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

C.10 Compliance Monitoring [326 IAC 2-7-5(3)] [326 IAC 2-7-6(1)][40 CFR 64][326 IAC 3-8]

- (a) For new units:

Unless otherwise specified in the approval for the new emission unit(s), compliance monitoring for new emission units shall be implemented on and after the date of initial startup.

- (b) For existing units:

Unless otherwise specified in this permit, for all monitoring requirements not already legally required, the Permittee shall be allowed up to ninety (90) days from the date of permit issuance to begin such monitoring. If due to circumstances beyond the Permittee's control, any monitoring equipment required by this permit cannot be installed and operated no later than ninety (90) days after permit issuance, the Permittee may extend the compliance schedule related to the equipment for an additional ninety (90) days provided the Permittee notifies:

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

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

The notification which shall be submitted by the Permittee does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(35).

- (c) For monitoring required by CAM, at all times, the Permittee shall maintain the monitoring, including but not limited to, maintaining necessary parts for routine repairs of the monitoring equipment.
- (d) For monitoring required by CAM, except for, as applicable, monitoring malfunctions, associated repairs, and required quality assurance or control activities (including, as applicable, calibration checks and required zero and span adjustments), the Permittee shall conduct all monitoring in continuous operation (or shall collect data at all required intervals) at all times that the pollutant-specific emissions unit is operating. Data recorded during monitoring malfunctions, associated repairs, and required quality assurance or control activities shall not be used for purposes of this part, including data averages and calculations, or fulfilling a minimum data availability requirement, if applicable. The owner or operator shall use all the data collected during all other periods in assessing the operation of the control device and associated control system. A monitoring malfunction is any sudden, infrequent, not reasonably preventable failure of the monitoring to provide valid data. Monitoring failures that are caused in part by poor maintenance or careless operation are not malfunctions.

C.11 Instrument Specifications [326 IAC 2-1.1-11] [326 IAC 2-7-5(3)] [326 IAC 2-7-6(1)]

- (a) When required by any condition of this permit, an analog instrument used to measure a parameter related to the operation of an air pollution control device shall have a scale such that the expected maximum reading for the normal range shall be no less than twenty percent (20%) of full scale. The analog instrument shall be capable of measuring values outside of the normal range.
- (b) The Permittee may request that the IDEM, OAQ approve the use of an instrument that does not meet the above specifications provided the Permittee can demonstrate that an alternative instrument specification will adequately ensure compliance with permit conditions requiring the measurement of the parameters.

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

C.12 Emergency Reduction Plans [326 IAC 1-5-2] [326 IAC 1-5-3]

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

- (a) The Permittee shall maintain the most recently submitted written emergency reduction plans (ERPs) consistent with safe operating procedures.
- (b) Upon direct notification by IDEM, OAQ that a specific air pollution episode level is in effect, the Permittee shall immediately put into effect the actions stipulated in the approved ERP for the appropriate episode level. [326 IAC 1-5-3]

C.13 Risk Management Plan [326 IAC 2-7-5(12)] [40 CFR 68]

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

C.14 Response to Excursions or Exceedances [326 IAC 2-7-5] [326 IAC 2-7-6][40 CFR 64]
[326 IAC 3-8]

- (I) Upon detecting an excursion where a response step is required by the D Section, or an exceedance of a limitation, not subject to CAM, in this permit:
 - (a) The Permittee shall take reasonable response steps to restore operation of the emissions unit (including any control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing excess emissions.
 - (b) The response shall include minimizing the period of any startup, shutdown or malfunction. The response may include, but is not limited to, the following:
 - (1) initial inspection and evaluation;
 - (2) recording that operations returned or are returning to normal without operator action (such as through response by a computerized distribution control system); or
 - (3) any necessary follow-up actions to return operation to normal or usual manner of operation.
 - (c) A determination of whether the Permittee has used acceptable procedures in response to an excursion or exceedance will be based on information available, which may include, but is not limited to, the following:
 - (1) monitoring results;
 - (2) review of operation and maintenance procedures and records; and/or
 - (3) inspection of the control device, associated capture system, and the process.
 - (d) Failure to take reasonable response steps shall be considered a deviation from the permit.
 - (e) The Permittee shall record the reasonable response steps taken.
- (II)
 - (a) *CAM Response to excursions or exceedances.*
 - (1) Upon detecting an excursion or exceedance, subject to CAM, the Permittee shall restore operation of the pollutant-specific emissions unit (including the control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions. The response shall include minimizing the period of any startup, shutdown or malfunction and taking any necessary corrective actions to restore normal operation and prevent the likely recurrence of the cause of an excursion or exceedance (other than those caused by excused startup or shutdown conditions). Such actions may include initial inspection and evaluation, recording that operations returned to normal

without operator action (such as through response by a computerized distribution control system), or any necessary follow-up actions to return operation to within the indicator range, designated condition, or below the applicable emission limitation or standard, as applicable.

- (2) Determination of whether the Permittee has used acceptable procedures in response to an excursion or exceedance will be based on information available, which may include but is not limited to, monitoring results, review of operation and maintenance procedures and records, and inspection of the control device, associated capture system, and the process.
- (b) If the Permittee identifies a failure to achieve compliance with an emission limitation, subject to CAM, or standard, subject to CAM, for which the approved monitoring did not provide an indication of an excursion or exceedance while providing valid data, or the results of compliance or performance testing document a need to modify the existing indicator ranges or designated conditions, the Permittee shall promptly notify the IDEM, OAQ and, if necessary, submit a proposed significant permit modification to this permit to address the necessary monitoring changes. Such a modification may include, but is not limited to, reestablishing indicator ranges or designated conditions, modifying the frequency of conducting monitoring and collecting data, or the monitoring of additional parameters.
 - (c) Based on the results of a determination made under paragraph (II)(a)(2) of this condition, the EPA or IDEM, OAQ may require the Permittee to develop and implement a QIP. The Permittee shall develop and implement a QIP if notified to in writing by the EPA or IDEM, OAQ.
 - (d) Elements of a QIP:
The Permittee shall maintain a written QIP, if required, and have it available for inspection. The plan shall conform to 40 CFR 64.8 b (2).
 - (e) If a QIP is required, the Permittee shall develop and implement a QIP as expeditiously as practicable and shall notify the IDEM, OAQ if the period for completing the improvements contained in the QIP exceeds 180 days from the date on which the need to implement the QIP was determined.
 - (f) Following implementation of a QIP, upon any subsequent determination pursuant to paragraph (II)(a)(2) of this condition the EPA or the IDEM, OAQ may require that the Permittee make reasonable changes to the QIP if the QIP is found to have:
 - (1) Failed to address the cause of the control device performance problems;
or
 - (2) Failed to provide adequate procedures for correcting control device performance problems as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions.
 - (g) Implementation of a QIP shall not excuse the Permittee from compliance with any existing emission limitation or standard, or any existing monitoring, testing, reporting or recordkeeping requirement that may apply under federal, state, or local law, or any other applicable requirements under the Act.
 - (h) *CAM recordkeeping requirements.*

- (1) The Permittee shall maintain records of monitoring data, monitor performance data, corrective actions taken, any written quality improvement plan required pursuant to paragraph (II)(a)(2) of this condition and any activities undertaken to implement a quality improvement plan, and other supporting information required to be maintained under this condition (such as data used to document the adequacy of monitoring, or records of monitoring maintenance or corrective actions). Section C - General Record Keeping Requirements of this permit contains the Permittee's obligations with regard to the records required by this condition.
- (2) Instead of paper records, the owner or operator may maintain records on alternative media, such as microfilm, computer files, magnetic tape disks, or microfiche, provided that the use of such alternative media allows for expeditious inspection and review, and does not conflict with other applicable recordkeeping requirements

C.15 Actions Related to Noncompliance Demonstrated by a Stack Test [326 IAC 2-7-5] [326 IAC 2-7-6]

- (a) When the results of a stack test performed in conformance with Section C - Performance Testing, of this permit exceed the level specified in any condition of this permit, the Permittee shall submit a description of its response actions to IDEM, OAQ, no later than seventy-five (75) days after the date of the test.
- (b) A retest to demonstrate compliance shall be performed no later than one hundred eighty (180) days after the date of the test. Should the Permittee demonstrate to IDEM, OAQ that retesting in one hundred eighty (180) days is not practicable, IDEM, OAQ may extend the retesting deadline
- (c) IDEM, OAQ reserves the authority to take any actions allowed under law in response to noncompliant stack tests.

The response action documents submitted pursuant to this condition do require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(35).

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

C.16 Emission Statement [326 IAC 2-7-5(3)(C)(iii)] [326 IAC 2-7-5(7)] [326 IAC 2-7-19(c)] [326 IAC 2-6]

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

- (1) Indicate estimated actual emissions of all pollutants listed in 326 IAC 2-6-4(a);
- (2) Indicate estimated actual emissions of regulated pollutants as defined by 326 IAC 2-7-1(33) ("Regulated pollutant, which is used only for purposes of Section 19 of this rule") from the source, for purpose of fee assessment.

The statement must be submitted to:

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

The emission statement does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(35).

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

(a) Records of all required monitoring data, reports and support information required by this permit shall be retained for a period of at least five (5) years from the date of monitoring sample, measurement, report, or application. Support information includes the following, where applicable:

- (AA) All calibration and maintenance records.
- (BB) All original strip chart recordings for continuous monitoring instrumentation.
- (CC) Copies of all reports required by the Part 70 permit.

Records of required monitoring information include the following, where applicable:

- (AA) The date, place, as defined in this permit, and time of sampling or measurements.
- (BB) The dates analyses were performed.
- (CC) The company or entity that performed the analyses.
- (DD) The analytical techniques or methods used.
- (EE) The results of such analyses.
- (FF) The operating conditions as existing at the time of sampling or measurement.

These records shall be physically present or electronically accessible at the source location for a minimum of three (3) years. The records may be stored elsewhere for the remaining two (2) years as long as they are available upon request. If the Commissioner makes a request for records to the Permittee, the Permittee shall furnish the records to the Commissioner within a reasonable time.

(b) Unless otherwise specified in this permit, for all record keeping requirements not already legally required, the Permittee shall be allowed up to ninety (90) days from the date of permit issuance or the date of initial start-up, whichever is later, to begin such record keeping.

(c) If there is a reasonable possibility (as defined in 326 IAC 2-2-8 (b)(6)(A), 326 IAC 2-2-8 (b)(6)(B), 326 IAC 2-3-2 (l)(6)(A), and/or 326 IAC 2-3-2 (l)(6)(B)) that a "project" (as defined in 326 IAC 2-2-1(oo) and/or 326 IAC 2-3-1(jj)) at an existing emissions unit, other than projects at a source with a Plantwide Applicability Limitation (PAL), which is not part of a "major modification" (as defined in 326 IAC 2-2-1(dd) and/or 326 IAC 2-3-1(y)) may result in significant emissions increase and the Permittee elects to utilize the "projected actual emissions" (as defined in 326 IAC 2-2-1(pp) and/or 326 IAC 2-3-1(kk)), the Permittee shall comply with following:

- (1) Before beginning actual construction of the "project" (as defined in 326 IAC 2-2-1(oo) and/or 326 IAC 2-3-1(jj)) 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(pp)(2)(A)(iii) and/or 326 IAC 2-3-1 (kk)(2)(A)(iii); and
 - (iv) An explanation for why the amount was excluded, and any netting calculations, if applicable.
- (d) If there is a reasonable possibility (as defined in 326 IAC 2-2-8 (b)(6)(A) and/or 326 IAC 2-3-2 (l)(6)(A)) that a "project" (as defined in 326 IAC 2-2-1(oo) and/or 326 IAC 2-3-1(jj)) at an existing emissions unit, other than projects at a source with a Plantwide Applicability Limitation (PAL), which is not part of a "major modification" (as defined in 326 IAC 2-2-1(dd) and/or 326 IAC 2-3-1(y)) may result in significant emissions increase and the Permittee elects to utilize the "projected actual emissions" (as defined in 326 IAC 2-2-1(pp) and/or 326 IAC 2-3-1(kk)), the Permittee shall comply with following:
- (1) Monitor the emissions of any regulated NSR pollutant that could increase as a result of the project and that is emitted by any existing emissions unit identified in (1)(B) above; and
 - (2) Calculate and maintain a record of the annual emissions, in tons per year on a calendar year basis, for a period of five (5) years following resumption of regular operations after the change, or for a period of ten (10) years following resumption of regular operations after the change if the project increases the design capacity of or the potential to emit that regulated NSR pollutant at the emissions unit.

C.18 General Reporting Requirements [326 IAC 2-7-5(3)(C)] [326 IAC 2-1.1-11] [326 IAC 2-2] [326 IAC 2-3][40 CFR 64][326 IAC 3-8]

- (a) The Permittee shall submit the attached Quarterly Deviation and Compliance Monitoring Report or its equivalent. Proper notice submittal under Section B –Emergency Provisions satisfies the reporting requirements of this paragraph. Any deviation from permit requirements, the date(s) of each deviation, the cause of the deviation, and the response steps taken must be reported except that a deviation required to be reported pursuant to an applicable requirement that exists independent of this permit, shall be reported according to the schedule stated in the applicable requirement and does not need to be included in this report. This report shall be submitted not later than thirty (30) days after the end of the reporting period. The Quarterly Deviation and Compliance Monitoring Report shall include a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(35). A deviation is an exceedance of a permit limitation or a failure to comply with a requirement of the permit.

On and after the date by which the Permittee must use monitoring that meets the requirements of 40 CFR Part 64 and 326 IAC 3-8, the Permittee shall submit CAM reports to the IDEM, OAQ.

A report for monitoring under 40 CFR Part 64 and 326 IAC 3-8 shall include, at a minimum, the information required under paragraph (a) of this condition and the following information, as applicable:

- (1) Summary information on the number, duration and cause (including unknown cause, if applicable) of excursions or exceedances, as applicable, and the corrective actions taken;
- (2) Summary information on the number, duration and cause (including unknown cause, if applicable) for monitor downtime incidents (other than downtime associated with zero and span or other daily calibration checks, if applicable); and
- (3) A description of the actions taken to implement a QIP during the reporting period as specified in Section C-Response to Excursions or Exceedances. Upon completion of a QIP, the owner or operator shall include in the next summary report documentation that the implementation of the plan has been completed and reduced the likelihood of similar levels of excursions or exceedances occurring.

The Permittee may combine the Quarterly Deviation and Compliance Monitoring Report and a report pursuant to 40 CFR 64 and 326 IAC 3-8.

- (b) The address for report submittal is:

Indiana Department of Environmental Management
Compliance and Enforcement Branch, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251
- (c) Unless otherwise specified in this permit, any notice, report, or other submission required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ on or before the date it is due.
- (d) Reporting periods are based on calendar years, unless otherwise specified in this permit. For the purpose of this permit "calendar year" means the twelve (12) month period from January 1 to December 31 inclusive.
- (e) If the Permittee is required to comply with the recordkeeping provisions of (d) in Section C - General Record Keeping Requirements for any "project" (as defined in 326 IAC 2-2-1 (oo) and/or 326 IAC 2-3-1 (jj)) at an existing emissions unit, and the project meets the following criteria, then the Permittee shall submit a report to IDEM, OAQ:
 - (1) The annual emissions, in tons per year, from the project identified in (c)(1) in Section C- General Record Keeping Requirements exceed the baseline actual emissions, as documented and maintained under Section C- General Record Keeping Requirements (c)(1)(C)(i), by a significant amount, as defined in 326 IAC 2-2-1 (ww) and/or 326 IAC 2-3-1 (pp), for that regulated NSR pollutant, and
 - (2) The emissions differ from the preconstruction projection as documented and maintained under Section C - General Record Keeping Requirements (c)(1)(C)(ii).
- (f) The report for project at an existing emissions unit shall be submitted no later than sixty (60) days after the end of the year and contain the following:

- (1) The name, address, and telephone number of the major stationary source.
- (2) The annual emissions calculated in accordance with (d)(1) and (2) in Section C - General Record Keeping Requirements.
- (3) The emissions calculated under the actual-to-projected actual test stated in 326 IAC 2-2-2(d)(3) and/or 326 IAC 2-3-2(c)(3).
- (4) Any other information that the Permittee wishes to include in this report such as an explanation as to why the emissions differ from the preconstruction projection.

Reports required in this part shall be submitted to:

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

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

Stratospheric Ozone Protection

C.19 Compliance with 40 CFR 82 and 326 IAC 22-1

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

SECTION D.1 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description: Grain Handling and Grain Drying Facilities

- (a) Truck Dump #2, identified as 1EL1, constructed in 1980, with a maximum capacity of 600 tons per hour, using a baghouse for particulate matter (PM) control, and exhausting to stack 1EL. This is an affected facility under the New Source Performance Standard for Grain Elevators 40 CFR 60.300, Subpart DD.
- (b) The following grain elevator East Workhouse components, together identified as 2EL1, with a maximum throughput of 270 tons per hour (Bottlenecked to 240 tons per hour), each, unless otherwise stated, using a baghouse and oil suppressant for PM control, and exhausting to stack 2EL, consisting of:
 - (1) One (1) Megatex screener, approved for construction in 2013, with a maximum throughput of 300 tons per hour, using a baghouse, identified as 2EL4, for particulate control, and exhausting to stack 2EL4. This is an affected facility under the New Source Performance Standard for Grain Elevators 40 CFR 60.300, Subpart DD;
 - (2) One (1) #1 scalperator, constructed in 2011 and approved for modification in 2013, with a maximum throughput of 120 tons per hour, using a baghouse, identified as 2EL4, for particulate control, and exhausting to stack 2EL4. This is an affected facility under the New Source Performance Standard for Grain Elevators 40 CFR 60.300, Subpart DD;
 - (3) One (1) #2 scalperator, constructed in 2011 and approved for modification in 2013, with a maximum throughput of 120 tons per hour, using a baghouse, identified as 2EL4, for particulate control, and exhausting to stack 2EL4. This is an affected facility under the New Source Performance Standard for Grain Elevators 40 CFR 60.300, Subpart DD;
 - (4) One (1) ext. screening bin, constructed prior to 1977;
 - (5) One (1) screening bin, constructed prior to 1977;
 - (6) One (1) solvent screening leg, constructed prior to 1977;
 - (7) One (1) #1 leg, constructed prior to 1977;
 - (8) One (1) #2 leg, constructed prior to 1977;
 - (9) One (1) #3 leg, constructed prior to 1977;
 - (10) One (1) west to east Hi-Roller, constructed prior to 1977;
 - (11) One (1) west to east belt loader, constructed prior to 1977;
 - (12) One (1) dry bean leg, constructed prior to 1977;
 - (13) One (1) #1 dryer Hi-Roller, constructed prior to 1977;
 - (14) One (1) weaver's belt, constructed prior to 1977; and
 - (15) One (1) 102 belt, constructed prior to 1977.

- (c) One (1) hammermill, permitted in 2010 for construction, identified as 2EL2, with a maximum capacity of 5.60 tons per hour, using a baghouse as control (Unit ID 2EL2), and exhausting to stack 2EL2.
- (d) One (1) pneumatic conveying system, permitted in 2010 for construction, identified as 2EL3, with a maximum capacity of 5.60 tons per hour, using a baghouse for control (Unit ID 22EX2) as control, and exhausting to stack 22EX2.
- (e) The following grain elevator components, together identified as 5EL1, with a maximum throughput of 900 tons per hour, each, using a baghouse and oil suppressant for PM control, and exhausting to stack 5EL, consisting of:
 - (1) One (1) north tripper buggy, constructed prior to 1977;
 - (2) One (1) north galley belt loader, constructed prior to 1977;
 - (3) One (1) east west belt, constructed prior to 1977; and
 - (4) One (1) bin 102, constructed prior to 1977.
- (f) One (1) north west receiving house enclosed conveyor identified as 8EL1, constructed prior to 1977, with a maximum throughput of 360 tons per hour, using oil suppressant for PM control, with no aspiration.
- (g) The following grain elevator components together identified as 10EL1, with a maximum throughput of 720 tons per hour, each, using a baghouse and oil suppressant for PM control, and exhausting to stack 10EL, consisting of:
 - (1) One (1) rail loadout, constructed in 1984. This is an affected facility under the New Source Performance Standard for Grain Elevators 40 CFR 60.300, Subpart DD;
 - (2) One (1) rail receiving, constructed in 1960;
 - (3) One (1) north leg, constructed prior to 1960; and
 - (4) One (1) south leg, constructed prior to 1960.
- (h) The following grain elevator components together identified as 14EL1, with a maximum throughput of 600 tons per hour, each, using a baghouse and oil suppressant for PM control, and exhausting to stack 14EL, consisting of:
 - (1) One (1) jumbo silo east galley belt, constructed prior to 1977;
 - (2) One (1) jumbo silo west galley belt, constructed prior to 1977; and
 - (3) One (1) jumbo silo crossover galley belt, constructed prior to 1977.
- (i) One (1) natural gas fired grain dryer #2, identified as 19EL1, constructed in 1995, with a maximum capacity 60 tons per hour and a maximum heat input capacity of 7 MMBtu/hr, using self-cleaning screens for PM control, and exhausting to vent 19EL. This is an affected facility under the New Source Performance Standard for Grain Elevators 40 CFR 60.300, Subpart DD.
- (j) One (1) truck dump #7, identified as 20EL1, constructed in 1997, with a maximum throughput of 450 tons per hour, consisting of one (1) weigh scale truck unloading pit, and two (2)

enclosed bucket elevator legs, using two (2) baghouses in parallel for PM control, and exhausting to stack 20EL. This is an affected facility under the New Source Performance Standard for Grain Elevators 40 CFR 60.300, Subpart DD.

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

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

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

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

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

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

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

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

- (a) The total emissions from the Megatex screener, #1 scalperator, and #2 scalperator shall be limited to the following:
- (1) The PM emission rate from the Megatex screener, #1 scalperator, and #2 scalperator, controlled by the baghouse for 2EL4, shall not exceed 5.7 pounds per hour,
 - (2) The PM₁₀ emission rate from the Megatex screener, #1 scalperator, and #2 scalperator, controlled by the baghouse for 2EL4, shall not exceed 3.40 pounds per hour, and
 - (3) The PM_{2.5} emission rate from the Megatex screener, #1 scalperator, and #2 scalperator, controlled by the baghouse for 2EL4, shall not exceed 2.28 pounds per hour.

Compliance with these limits shall limit the potential to emit from this modification to less than twenty-five (25) tons of PM, less than fifteen (15) tons of PM₁₀ and less than ten (10) tons of PM_{2.5} per twelve (12) consecutive month period and render the requirements of 326 IAC 2-2 not applicable to the Megatex screener, #1 scalperator, and #2 scalperator.

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

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

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

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

Unit	Process Weight Rate (ton/hr)	PM Limit (lb/hr)
1EL1	600	71.16
2EL1	240	60.50
2EL2	5.6	13.00
2EL3	5.6	13.00
5EL1	900	76.23
8EL1	360	65.09
10EL1	720	73.41
14EL1	600	71.16
16EL1	75	48.43
19EL1	60	46.29
20EL1	450	67.70
Megatex Screener	300	63.00
#1 Scalperator	120	53.13
#2 Scalperator	120	53.13

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

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

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

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

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

D.1.4 Preventive Maintenance Plan [326 IAC 2-7-5(12)]

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

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

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

- (a) In order to demonstrate compliance with Condition D.1.2(a)(1), (2), (3), and D.1.3 the Permittee shall perform PM and PM₁₀ testing of the baghouse, unit ID 2EL4, when only the Megatex screener, #1 scalperator and #2 scalperator is operating, utilizing methods as approved by the Commissioner at least once every five (5) years from the date of the most recent valid compliance demonstration. Testing shall be conducted in accordance with the provisions of 326 IAC 3-6 (Source Sampling Procedures). Section C – Performance Testing contains the Permittee's obligation with regard to the performance testing required by this condition. PM₁₀ includes filterable and condensable PM.
- (b) In order to demonstrate compliance with Condition D.1.2(c), the Permittee shall perform PM and PM₁₀ testing of the hammermill plenum baghouse filter, unit ID 2EL2, utilizing methods as approved by the Commissioner at least once every five (5) years from the date of this valid compliance demonstration. Testing shall be conducted in accordance with the provisions of 326 IAC 3-6 (Source Sampling Procedures). Section C - Performance Testing contains the Permittee's obligation with regard to the performance testing required by this condition. PM₁₀ includes filterable and condensable PM.

D.1.6 Particulate Matter (PM)

- (a) In order to comply with Conditions D.1.1, D.1.2, and D.1.3 the baghouses for particulate control shall be in operation and control emissions from 1EL1, 2EL1, Megatex screener, #1 scalperator, #2 scalperator, 2EL2, 2EL3, 5EL1, 10EL1, 14EL1, and 20EL1 at all times that these processes are in operation.
- (b) In order to comply with Conditions D.1.1 and D.1.3, the self-cleaning screens for PM control shall be in operation and control emissions from 19EL1 and 16 EL1 at all times that these processes are in operation.
- (c) In order to comply with Conditions D.1.1 and D.1.3, dust control oil shall be applied on all grain received at the dump pits serving the emission units identified as 2EL1, 5EL1, 8EL1, 10EL1, and 14EL1.
- (d) In the event that bag failure is observed in a multi-compartment baghouse, if operations will continue for ten (10) days or more after the failure is observed before the failed units will be repaired or replaced, the Permittee shall promptly notify the IDEM, OAQ of the expected date the failed units will be repaired or replaced. The notification shall also include the status of the applicable compliance monitoring parameters with respect to normal, and the results of any response actions taken up to the time of notification.

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

D.1.7 Visible Emissions Notations

- (a) Daily visible emission notations of the grain handling and grain drying stack exhausts/vents (2EL, 2EL2, 22EX2, 5EL, 19EL, 16EL) shall be performed once per day during normal daylight operations. A trained employee shall record whether emissions are normal or abnormal.
- (b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.
- (c) In the case of batch or discontinuous operations, readings shall be taken during that part

of the operation that would normally be expected to cause the greatest emissions.

- (d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.
- (e) If abnormal emissions are observed, the Permittee shall take a reasonable response. Section C - Response to Excursions or Exceedances contains the Permittee's obligation with regard to the reasonable response steps required by this condition. Failure to take response steps shall be considered a deviation from this permit.

D.1.8 Visible Emissions Notations [40 CFR 64 (CAM)]

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

D.1.9 Parametric Monitoring

The Permittee shall record the pressure drop across the baghouses used in conjunction with 2EL1, 2EL2, 2EL3, 2EL4, and 5EL1 at least once per day when the associated facilities are in operation. When for any one reading, the pressure drop across the baghouse is outside the normal range the Permittee shall take a reasonable response. The normal range for these units is a pressure drop between 0.5 and 10.0 inches of water unless a different upper-bound or lower-bound value for this range is determined during the latest stack test. Section C – Response to Excursions or Exceedances contains the Permittee's obligation with regard to the reasonable response steps required by this condition. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps shall be considered a deviation from this permit.

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

D.1.10 Parametric Monitoring [40 CFR 64 (CAM)]

The Permittee shall record the pressure drop across the baghouses used in conjunction with 1EL1, 14EL1, 10EL1, and 20EL1 at least once per day when the associated facilities are in operation. When for any one reading, the pressure drop across the baghouse is outside the normal range the Permittee shall take a reasonable response. The normal range for these units is a pressure drop between 0.5 and 10.0 inches of water unless a different upper-bound or lower-bound value for this range is determined during the latest stack test. Section C – Response to Excursions or Exceedances contains the Permittee’s obligation with regard to the reasonable response steps required by this condition. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps shall be considered a deviation from this permit.

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

D.1.11 Broken or Failed Bag Detection

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

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

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

D.1.12 Record Keeping Requirements

- (a) To document the compliance status with Condition D.1.1, the Permittee shall maintain monthly records of the amount of soybean grains processed after the grain dryers.
- (b) To document the compliance status with Condition D.1.7 and D.1.8, the Permittee shall maintain a daily record of visible emission notations of the grain handling processes' stack exhausts. The Permittee shall include in its daily record when a visible emission notation is not taken and the reason for the lack of visible emission notation (e.g. the process did not operate that day).
- (c) To document the compliance status with Condition D.1.9 and D.1.10, the Permittee shall maintain a daily record of the pressure drop across the baghouses controlling the grain handling processes. The Permittee shall include in its daily record when a pressure drop reading is not taken and the reason for the lack of a pressure drop reading (e.g. the process did not operate that day).
- (d) Section C - General Record Keeping Requirements contains the Permittee's obligations with regard to the records required by this condition.

D.1.13 Reporting Requirements

A quarterly summary of the information to document the compliance status with Condition D.1.1(a)(1) shall be submitted not later than thirty (30) days after the end of the quarter being reported. Section C - General Reporting contains the Permittee's obligation with regard to the reporting required by this condition. The report submitted by the Permittee does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(35).

SECTION D.2 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description: Grain Handling and Soybean Meal Production Facilities

- (k) Silo bin vents, identified as 3EL1, constructed prior to 1977, with a maximum throughput of 900 tons per hour, total, using soybean oil as a dust suppressant, and exhausting to vent 3EL.
- (l) Silo direct loadout, identified as 4EL1, constructed prior to 1977, with a maximum throughput of 270 tons per hour, using soybean oil as a dust suppressant.
- (m) One (1) south tripper buggy, one (1) south galley belt loader, and one (1) north south belt, identified as 6EL1, all constructed prior to 1977, with a maximum throughput of 900 tons per hour, each, using a baghouse and oil suppressant for PM control, and exhausting to stack 6EL.
- (n) One (1) south west receiving house enclosed conveyor, identified as 7EL1, constructed prior to 1977, with a maximum throughput of 360 tons per hour, using oil suppressant for PM control with no aspiration.
- (o) One (1) truck dump #3, identified as 9EL1, constructed in 1976, with a maximum throughput of 900 tons per hour, using a baghouse for PM control, and exhausting to stack 9EL.
- (p) One (1) truck dump #5, identified as 12EL1, constructed prior to 1977, with a maximum throughput of 600 tons per hour, using a baghouse for PM control, and exhausting to stack 12EL.
- (q) One (1) jumbo silo east tunnel belt, one (1) jumbo silo west tunnel belt, and one (1) jumbo silo crossover tunnel belt, identified as 13EL1, all constructed prior to 1977, with a maximum throughput of 360 tons per hour, each, using a baghouse and oil suppressant for PM control, and exhausting to stack 13EL.
- (r) One (1) truck dump #6, identified as 15EL1, constructed prior to 1977, with a maximum throughput of 360 tons per hour, using a baghouse for PM control, and exhausting to stack 15EL.
- (t) Two (2) natural gas fired grain dryers, #4 and #5, identified as 17EL1, constructed in the 1960's, with a maximum capacity of 150 tons per hour and a maximum heat input capacity of 14 MMBtu/hr, total, using self-cleaning screens for PM control, and exhausting to vent 17EL.
- (u) One (1) Lec. Dept. filter aid unit, identified as 204RO1, constructed in 1980, with a maximum throughput of 2.5 tons per hour, using a baghouse for PM control, and exhausting to stack 204RO.
- (v) Daily use bins, identified as 102EO1, constructed in 1976, with a maximum throughput of 2.5 tons per hour, each, using a baghouse for PM control, and exhausting to stack 102EO.
- (w) Filter aid silos, identified as 103EO1, constructed in 1976, with a maximum throughput of 16 tons per hour, each, using a baghouse for PM control, and exhausting to stack 103EO.
- (y) Salt conveying, identified as 4SP1, constructed in 1981, with a maximum throughput of 21 tons per hour, using a baghouse for PM control, and exhausting to stack 4SP.
- (z) Six (6) flaking rolls, #1, #2, #3, #4, #5, and #6, constructed in 1996, and B flake n/s drag, constructed in 1991, all identified together as 1EX1, with a maximum throughput of 93.1 tons per hour, total, using fabric filters for PM control, and exhausting to stack 1EX.

- (aa) One (1) flaking roll #14 and flaking roll discharge #14, identified as 1EX2, constructed in 1991, with a maximum throughput of 93.1 tons per hour, each, using fabric filters for PM control, and exhausting to stack 1EX.
- (bb) The following soybean processing equipment, together identified as 3EX1, with a maximum throughput of 48.8 tons per hour, each, sharing a cyclone with 3EX2 for PM control, and exhausting to stack 3EX, consisting of:
 - (1) Four (4) flaking rolls, #9, #10, #11, and #12, constructed in 1978;
 - (2) One (1) flaking roll #13, constructed in 1985;
 - (3) One (1) 'A' flake n/s drag, constructed in 1993; and
 - (4) One (1) 'A' flake e/w drag, constructed in 1993.
- (cc) One (1) north run around drag, identified as 3EX2, constructed in 1984, with a maximum throughput of 48.8 tons per hour, sharing a cyclone with 3EX1, and exhausting to stack 3EX.
- (dd) The following soybean processing equipment, together identified as 4EX1, with a maximum throughput of 156.3 tons per hour, each, sharing a baghouse with 4EX2 and 4EX3 for PM control, and exhausting to stack 4EX, consisting of:
 - (1) One (1) whole bean scale, constructed in 1989;
 - (2) One (1) 'A' whole bean leg, constructed in 1997;
 - (3) One (1) 'A' surge bin, constructed prior to 1979;
 - (4) One (1) whole bean drag, constructed in 1981; and
 - (5) One (1) 'B' surge bin, constructed prior to 1979.
- (ee) A run around rework screw, identified as 4EX2, constructed in 1991, with a maximum throughput of 156.3 tons per hour, sharing a baghouse with 4EX1 and 4EX3 for PM control, and exhausting to stack 4EX.
- (ff) The following soybean processing equipment, together identified as 4EX3, with a maximum throughput of 156.3 tons per hour, each, sharing a baghouse with 4EX1 and 4EX2 for PM control, and exhausting to stack 4EX, consisting of:
 - (1) One (1) hull refining screw conveyor, constructed in 1991;
 - (2) One (1) hull refining process, constructed in 1991; and
 - (3) One (1) hull grinding process, constructed in 1987.
- (gg) Dehulling equipment, identified as 5EX1, constructed in 1997, with a maximum throughput of 156.3 tons per hour, sharing a baghouse with 5EX3 for PM control, and exhausting to stack 5EX.
- (hh) Hot dehulling equipment, identified as 5EX2, constructed in 1991, with a maximum throughput of 156.3 tons per hour, using a water knock out box for PM control.

- (ii) Screening aspiration, identified as 5EX3, constructed in 1988, with a maximum throughput of 156.3 tons per hour, sharing a baghouse with 5EX1 for PM control, and exhausting to stack 5EX.
- (jj) Truck meal loadout and rail meal loadout, identified as 6EX1, constructed in 1982, replaced in 1999, with a maximum throughput of 150 tons per hour, with truck meal loadout using a baghouse for PM control, and exhausting to stack 6EX, and rail meal loadout using a choke loader for intrinsic PM control of fugitive emissions.
- (kk) One (1) soybean meal sizing and grinding operation, collectively identified as 7EX, approved in 2010 for construction, using a baghouse for PM control, and exhausting to stack 7EX, consisting of:
 - (1) One (1) meal screener, identified as 7EX1, with a maximum capacity of 176 tons per hour;
 - (2) Four (4) meal grinders, identified as 7EX2 through 7EX5, each with a maximum capacity of 45 tons per hour; and
 - (3) Associated conveyors.
- (ll) One (1) leg No. 2, one (1) mixing conveyor, and one (1) bin drag, together identified as 9EX1, all constructed in 1983, with a maximum throughput of 125 tons per hour, each, using a baghouse for PM control, and exhausting to stack 9EX.
- (mm) The following soybean processing equipment, together identified as 10EX1, with a maximum throughput of 333 tons per hour, each, using a baghouse for PM control, and exhausting to stack 10EX, consisting of:
 - (1) One (1) leg No. 3, constructed in the 1950's;
 - (2) One (1) tunnel drag, constructed in 1983; and
 - (3) One (1) meal loadout drag, constructed in 1982.
- (nn) One (1) kaolin bin, identified as 11EX1, constructed in the 1950's, with a maximum throughput of 15 tons per hour, using a baghouse for PM control, and exhausting to stack 11EX.
- (oo) One (1) meal loadout bin, identified as 12EX1, constructed in 1982, with a maximum throughput of 540 tons per hour, using a baghouse for PM control, and exhausting to stack 12EX.
- (pp) One (1) belt to storage bowls, one (1) large storage bowl, and one (1) small storage bowl, identified as 16EX1, 16EX2, and 16EX3, respectively, all constructed in 1982, with a maximum capacity of 93 tons per hour, each, with no PM control, and exhausting to stack 16EX.
- (qq) Whole bean bins, identified as 18EX1, constructed in the 1940's, with a maximum throughput of 156.3 tons per hour, total, with no PM control, and exhausting to stack 18EX.
- (rr) Meal storage silos with bin vents, identified as 23EX1, constructed in the 1950's, with a maximum throughput of 125 tons per hour, total, using one (1) bin vent filter as control, exhausting to stack 23EX.
- (xx) One (1) hexane extraction system, identified collectively as 24EX, modified prior to 1980, with

hexane emissions from the vent system controlled by a mineral oil absorber, and exhausting to stack 24EXA. For reporting purposes, all hexane emissions are collectively accounted for in the total hexane losses named 24EX.

- (1) One (1) 'A' unit, identified as 24EX1, consisting of 'A' pre-DT, constructed in 1996, 'A' DT, constructed in 1980, and the 'A' Meal Dryer, constructed in 1980, with a maximum capacity of 109.4 tons per hour, each. 'A' pre-DT is on top of and feeds the 'A' DT, which is on top of and feeds the 'A' Meal Dryer. The 'A' pre-DT and the 'A' DT exhaust to the hexane solvent reclaim system. The 'A' Meal Dryer uses an integral cyclone for product recovery, which also provides PM control, and exhausts to stack 24EX1. Hexane emissions are reported in 24EX.
 - (2) One (1) 'B' unit, identified as 24EX2, consisting of 'B' pre-DT, constructed in 1996, 'B' DT, constructed in 1980, and the 'B' Meal Dryer, constructed in 1980, with a maximum capacity of 109.4 tons per hour, each. 'B' pre-DT is on top of and feeds the 'B' DT which is on top of and feeds the 'B' Meal Dryer. The 'B' pre-DT and the 'B' DT exhaust to the hexane solvent reclaim system. The 'B' Meal Dryer uses an integral cyclone for product recovery, which also provides PM control, and exhausts to stack 24EX2. Hexane emissions are reported in 24EX.
 - (3) One meal cooler, identified as 24EX3, constructed in 1996, with a maximum capacity of 110 tons per hour, using two (2) integral cyclones for product recovery, which also provide PM control, exhausting to stacks 24EX3A and 24EX3B, respectively, with hexane emissions reported in 24EX.
- (yy) The following soybean processing equipment, identified as 17EX2, modified in 1987, with a maximum throughput of 156.3 tons per hour, each, using a cyclone for PM control, and exhausting to stack 17EX, consisting of:
- (1) One (1) flaking roll #8, constructed in 1981; and
 - (2) One (1) 'B' flake e/w drag, constructed in 1980.
- (zz) Two (2) conditioners identified as 31EX1 and 31EX2 constructed in 2002, with a maximum capacity of 156.3 tons per hour for each conditioner, and exhausting internally.
- (aaa) One (1) enclosed pneumatic ash conveying and loading operation, constructed in the 1950's, identified as emission unit 8SP1 and 8SP2, with a maximum throughput of 13.8 tons per hour, using a baghouse for emission control, and exhausting to stack 1SP. The ash loading operation uses water spray for fugitive emission mitigation.

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

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

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

The Permittee shall comply with the following:

- (a) The amount of soybean grains processed after the grain dryers shall be limited to less than 1,368,750 tons per twelve (12) consecutive month period, with compliance determined at the end of each month, and

- (b) Pursuant to CP 001-4673-00005, issued May 10, 1996 and AA 001-9930-00005, issued September 17, 1998, the PM and PM₁₀ emissions shall be limited as follows:

EU ID	Stack ID	PM Limit (lb/hr)	PM ₁₀ Limit (lb/hr)
19EL1	19EL	1.36	0.283
1EX1, 1EX2	1EX	0.474	0.474
4EX1, 4EX2, 4EX3	4EX	1.441	1.441
5EX1, 5EX3	5EX	1.505	1.505
5EX2	33EX	0.171	0.171
24EX1	24EX1	6.79	6.79
24EX2	24EX2	6.79	6.79
24EX3	24EX3A, 24EX3B	2.18, each	2.18, each
23EX1	23EX	0.021	0.021
6EX1	6EX	2.218	2.218

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

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

EU ID	Stack ID	PM Limit (lb/hr)	PM ₁₀ Limit (lb/hr)
7EX	7EX	0.514	0.514

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

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

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

Unit	Process Weight Rate (ton/hr)	PM Limit (lb/hr)
102EO1	2.5	7.58
103EO1	16	26.28
10EX1	333	64.19
11EX1	15	25.16
12EL1	600	71.16
12EX1	540	69.88
13EL1	360	65.09
15EL1	360	65.09
16EX1	93	50.55
16EX2	93	50.55
16EX3	93	50.55
17EL1	150	55.44
17EX2	156.3	55.87
18EX1	156.3	55.87

Unit	Process Weight Rate (ton/hr)	PM Limit (lb/hr)
19EL1	60	46.29
1EX1	93.1	50.56
1EX2	93.1	50.56
204RO1	2.5	7.58
23EX1	125	53.55
24EX1	109.4	52.18
24EX2	109.4	52.18
24EX3	110	52.24
31EX1	156.3	55.87
31EX2	156.3	55.87
3EL1	900	76.23
3EX1	48.8	44.35
3EX2	48.8	44.35
4EL1	270	61.82
4EX1	156.3	55.87
4EX2	156.3	55.87
4EX3	156.3	55.87
4SP1	21	31.53
5EX1	156.3	55.87
5EX2	156.3	55.87
5EX3	156.3	55.87
6EL1	900	76.23
6EX1	150	55.44
7EL1	360	65.09
7EX1	176	57.13
7EX2	45	43.60
7EX3	45	43.60
7EX4	45	43.60
7EX5	45	43.60
8EL1	360	65.09
8SP1	13.8	23.80
8SP2	13.8	23.80
9EL1	900	76.23
9EX1	125	53.55
Conveyor (each)	176	57.13

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

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

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

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

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

D.2.3 Preventive Maintenance Plan [326 IAC 2-7-5(12)]

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

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

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

- (a) In order to demonstrate compliance with Condition D.2.1(c), the Permittee shall perform PM and PM₁₀ testing of the meal sizing and grinding operation, unit ID 7EX, utilizing methods as approved by the Commissioner at least once every five (5) years from the date of the most recent valid compliance demonstration. Testing shall be conducted in accordance with the provisions of 326 IAC 3-6 (Source Sampling Procedures). Section C - Performance Testing contains the Permittee's obligation with regard to the performance testing required by this condition. PM₁₀ includes filterable and condensable PM.
- (b) In order to demonstrate compliance with Condition D.2.1(b), the Permittee shall perform PM and PM₁₀ testing of the hot dehulling equipment (5EX2), within sixty (60) days after achieving the maximum capacity, but not later than one hundred eighty (180) days after initial startup, utilizing methods as approved by the Commissioner at least once every five (5) years from the date of the most recent valid compliance demonstration. Testing shall be conducted in accordance with the provisions of 326 IAC 3-6 (Source Sampling Procedures). Section C – Performance Testing contains the Permittee's obligation with regard to the performance testing required by this condition. Testing shall be conducted in accordance with Section C - Performance Testing. PM₁₀ includes filterable and condensable PM₁₀.

D.2.5 Particulate Matter (PM)

- (a) In order to comply with Conditions D.2.1 and D.2.2, the baghouses, filters, and cyclones for PM control shall be in operation and control emissions from the listed facilities at all times that these facilities are in operation.
- (b) In order to comply with Conditions D.2.1 and D.2.2, dust control oil shall be applied on all grain received at the dump pits serving the emission units identified as 3EL1, 4EL1, 6EL1, 7EL1, and 13 EL1.
- (c) In order to comply with Conditions D.2.1 and D.2.2, the self-cleaning screens for PM control shall be in operation and control emissions from the grain dryers #4 and #5 (17EL1) at all times that these facilities are in operation.
- (d) In the event that bag failure is observed in a multi-compartment baghouse, if operations will continue for ten (10) days or more after the failure is observed before the failed units will be repaired or replaced, the Permittee shall promptly notify the IDEM, OAQ of the expected date the failed units will be repaired or replaced. The notification shall also include the status of the applicable compliance monitoring parameters with respect to normal, and the results of any response actions taken up to the time of notification.

D.2.6 Particulate Matter (PM)

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

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

D.2.7 Visible Emissions Notations

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

D.2.8 Visible Emissions Notations [326 IAC 6-3-2]

- (a) Visible emission notations of the grain handling, grain drying, and soybean meal production stack exhausts/vents (24EX1, 24EX2, 24EX3A, and 24EX3B) shall be performed once per day during normal daylight operations. A trained employee shall record whether emissions are normal or abnormal.
- (b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.
- (c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.
- (d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.
- (e) If abnormal emissions are observed, the Permittee shall take a reasonable response. Section C - Response to Excursions or Exceedances contains the Permittee's obligation with regard to the reasonable response steps required by this condition. Failure to take response steps shall be considered a deviation from this permit.

D.2.9 Visible Emissions Notations [40 CFR 64 (CAM)]

- (a) Visible emission notations of the grain handling, grain drying, and soybean meal production stack exhausts/vents (9EL, 6EX, and 7EX) shall be performed once per day during normal daylight operations. A trained employee shall record whether emissions are normal or abnormal.
- (b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not

counting startup or shut down time.

- (c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.
- (d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.
- (e) If abnormal emissions are observed, the Permittee shall take a reasonable response. Section C - Response to Excursions or Exceedances contains the Permittee's obligation with regard to the reasonable response steps required by this condition. Failure to take response steps shall be considered a deviation from this permit.

D.2.10 Parametric Monitoring

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

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

D.2.11 Parametric Monitoring [40 CFR 64 (CAM)]

The Permittee shall record the pressure drop across the baghouses used in conjunction with 9EL1, 6EX1, 7EX and 8SP1 at least once per day when the associated facilities are in operation. When for any one reading, the pressure drop across the baghouse is outside the normal range, the Permittee shall take a reasonable response. The normal range for this unit is a pressure drop between 0.5 and 12.0 inches of water unless a different upper-bound or lower-bound value for this range is determined during the latest stack test. Section C – Response to Excursions or Exceedances contains the Permittee's obligation with regard to the reasonable response steps required by this condition. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps shall be considered a deviation from this permit.

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

D.2.12 Broken or Failed Bag Detection

- (a) For a single compartment baghouses controlling emissions from a process operated continuously, a failed unit and the associated process shall be shut down immediately until the failed unit has been repaired or replaced. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).

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

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

D.2.13 Cyclone Failure Detection

In the event that cyclone failure has been observed:

Failed units and the associated process will be shut down immediately until the failed units have been repaired or replaced. The emissions unit shall be shut down no later than the completion of the processing of the material in the emission unit. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).

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

D.2.14 Record Keeping Requirements

- (a) To document the compliance status with Condition D.2.1, the Permittee shall maintain monthly records of the amount of soybean grains processed after the grain dryers.
- (b) To document the compliance status with Condition D.2.7, D.2.8 and D.2.9, the Permittee shall maintain a daily record of visible emission notations of the grain handling and soybean meal production processes' stack exhausts. The Permittee shall include in its daily record when a visible emission notation is not taken and the reason for the lack of visible emission notation (e.g. the process did not operate that day).
- (c) To document the compliance status with Condition D.2.10 and D.2.11, the Permittee shall maintain a daily record of the pressure drop across the baghouses controlling the grain handling and soybean meal production processes. The Permittee shall include in its daily record when a pressure drop reading is not taken and the reason for the lack of a pressure drop reading (e.g. the process did not operate that day).
- (d) Section C - General Record Keeping Requirements contains the Permittee's obligations with regard to the records required by this condition.

D.2.15 Reporting Requirements

A quarterly summary of the information to document the compliance status with Condition D.2.1(a)(1) shall be submitted not later than thirty (30) days after the end of the quarter being reported. Section C - General Reporting contains the Permittee's obligation with regard to the reporting required by this condition. The report submitted by the Permittee does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(35).

SECTION D.3 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description: Boilers and Heaters

- (x) One (1) natural gas fired hydrogen generator furnace, identified as 107EO1, constructed in 1992, with a maximum heat input capacity of 25.2 MMBtu/hr, and exhausting to stack 107EO. Under 40 CFR 60, Subpart Dc, 107EO1 is considered an affected facility. Under 40 CFR 63, Subpart DDDDD, 107EO1 is considered an existing affected source.
- (ss) One (1) natural gas fired steam generator, identified as 110EO1, constructed in 2002, with a maximum heat input capacity of 14 MMBtu/hr, and exhausting to stack 110EO. Under 40 CFR 60, Subpart Dc, 110EO1 is considered an affected facility. Under 40 CFR 63, Subpart DDDDD, 110EO1 is considered an existing affected source.
- (tt) One (1) natural gas fired steam generator #3, identified as 108EO1, constructed in 1994, with a maximum heat input capacity of 14 MMBtu/hr, and exhausting to stack 108EO. Under 40 CFR 60, Subpart Dc, 108EO1 is considered an affected facility. Under 40 CFR 63, Subpart DDDDD, 108EO1 is considered an existing affected source.
- (uu) One (1) B & W coal fired boiler, identified as 1SP1, constructed in 1950, with a maximum heat input capacity of 108 MMBtu/hr, using multiple cyclones and a baghouse for control of particulate and HAPs, and exhausting to stack 1SP. Under 40 CFR 63, Subpart DDDDD, 1SP1 is considered an existing affected source.
- (vv) One (1) Keeler coal fired boiler, identified as 2SP1, constructed in 1963, with a maximum heat input capacity of 52.75 MMBtu/hr, using multiple cyclones and a baghouse for control of particulate and HAPs, and exhausting to stack 1SP. Under 40 CFR 63, Subpart DDDDD, 2SP1 is considered an existing affected source.
- (ww) One (1) Murray natural gas fired boiler, identified as 3SP1, constructed in 1968, with a maximum heat input capacity of 110.2 MMBtu/hr, and exhausting to stack 1SP. Under 40 CFR 63, Subpart DDDDD, 3SP1 is considered an existing affected source.
- (fff) One (1) natural gas-fired boiler, identified as 9SP1, constructed in 2013, with a maximum heat input capacity of 99 MMBtu/hr, equipped with low NOx burners and flue gas recirculation (FGR) for NOx control, and exhausting to stack 9SP. Under 40 CFR 60, Subpart Dc, 9SP1 is considered an affected facility. Under 40 CFR 63, Subpart DDDDD, 9SP1 is considered a new affected source.
- (iii) One (1) B & W natural gas-fired boiler, identified as 10SP1, approved in 2015 for installation, with a maximum heat input capacity of 178.41 MMBtu/hr, using low NOx burners and flue gas recirculation, and exhausting to stack 10SP. Under 40 CFR 60, Subpart Db, 10SP1 is considered an affected facility. Under 40 CFR 63, Subpart DDDDD, 10SP1 is considered a new affected source.

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

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

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

- (a) Pursuant to 326 IAC 6-2-3(d) (Particulate Emission Limitations for Sources of Indirect Heating), the particulate matter (PM) emissions from the boilers identified as 1SP1, 2SP1, and 3SP1 shall not exceed 0.8 pounds per MMBtu of heat input, each.

- (b) Pursuant to 326 IAC 6-2-4 (Particulate Emission Limitations for Source of Indirect Heating), the particulate matter (PM) emissions from the boiler identified as 107EO1 shall be limited to 0.25 pounds per MMBtu of heat input.
- (c) Pursuant to 326 IAC 6-2-4 (Particulate Emission Limitations for Source of Indirect Heating), the particulate matter (PM) emissions from the boiler identified as 108EO1 shall be limited to less than 0.25 pounds per MMBtu of heat input.
- (d) Pursuant to 326 IAC 6-2-4 (Particulate Emission Limitations for Source of Indirect Heating), the particulate matter (PM) emissions from the boiler identified as 110EO1 shall be limited to 0.24 pounds per MMBtu of heat input.
- (e) Pursuant to 326 IAC 6-2-4 (Particulate Emission Limitations for Source of Indirect Heating), the particulate matter (PM) emissions from the boiler identified as 9SP1 shall be limited to 0.23 pounds per MMBtu of heat input.
- (f) Pursuant to 326 IAC 6-2-4 (Particulate Emission Limitations for Sources of Indirect Heating), the particulate matter (PM) emissions from the boiler identified as 10SP1 shall be limited to 0.24 pounds per MMBtu of heat input.

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

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

D.3.3 Sulfur Dioxide (SO₂) [326 IAC 7-1.1-1]

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

D.3.4 NOx Emissions [326 IAC 2-2]

- (a) NOx emissions from boiler 10SP1 shall not exceed the NOx emission limit in 40 CFR 60.44b(a)(1)(ii), Subpart Db (0.2 lb/MMBtu), as listed in Condition E.5.2(4). Compliance with this limit shall ensure that NOx emissions from boiler 10SP1 will not exceed 156.3 tons per twelve (12) consecutive month period.
- (b) The Permittee shall shut down boilers 1SP1, 2SP1, and 9SP1 prior to start-up of boiler 10SP1.

Compliance with these limits shall limit the net emissions increase of the project to less than forty (40) tons of NOx per twelve (12) consecutive month period and shall render the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration) not applicable to 10SP1.

D.3.5 Preventive Maintenance Plan [326 IAC 2-7-5(12)]

A Preventive Maintenance Plan is required for these facilities and any control devices. Section B - Preventative Maintenance Plan contains the Permittee's obligation with regard to the

preventative maintenance plan required by this condition.

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

D.3.6 Sulfur Dioxide Emissions and Sulfur Content [326 IAC 2-7-5(3)(A)] [326 IAC 2-7-6]

- (a) Pursuant to 326 IAC 7-2-1(c)(2), The Permittee shall submit quarterly reports of the calendar month average coal sulfur content, coal heat content, the sulfur dioxide emission rate in pounds per MMBtu, and the total monthly coal consumption.
- (b) Pursuant to 326 IAC 7-2-1(e), coal sampling and analysis data shall be collected pursuant to the procedures specified in 326 IAC 3-7-2(b) or 326 IAC 3-7-3 as follows:
 - (1) Minimum Coal Sampling Requirements and Analysis Methods:
 - (A) The coal sample acquisition point shall be at a location where representative samples of the total coal flow to be combusted by the facility or facilities may be obtained. A single as-bunkered or as-burned sampling station may be used to represent the coal to be combusted by multiple facilities using the same stockpile feed system;
 - (B) Coal shall be sampled at least one (1) time per day;
 - (C) Minimum sample size shall be five hundred (500) grams;
 - (D) Samples shall be composited and analyzed at the end of each calendar month;
 - (E) Preparation of the coal sample, heat content analysis, and sulfur content analysis shall be determined pursuant to 326 IAC 3-7-2(c); or
 - (2) Sample and analyze the coal pursuant to 326 IAC 3-7-3.

D.3.7 Continuous Emissions Monitoring [326 IAC 3-5] [326 IAC 2-7-6(1),(6)] [40 CFR 60, Subpart Db]

- (a) Pursuant to 326 IAC 3-5 (Continuous Monitoring of Emissions), a continuous emission monitoring system for boiler 10SP1 shall be calibrated, maintained, and operated for measuring NOx, which meet all applicable performance specifications of 326 IAC 3-5-2.
- (b) All continuous emissions monitoring systems are subject to monitor system certification requirements pursuant to 326 IAC 3-5-3.
- (c) Nothing in this permit shall excuse the Permittee from complying with the requirements to operate a continuous emission monitoring system pursuant to 326 IAC 3-5 40 CFR 60, Subpart Db.

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

D.3.8 Visible Emissions Notations

- (a) Visible emission notations of the boiler's (1SP1, 2SP1, 3SP1) stack exhaust (1SP) shall be performed once per day during normal daylight operations. A trained employee shall record whether emissions are normal or abnormal.
- (b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.

- (c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.
- (d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.
- (e) If abnormal emissions are observed, the Permittee shall take a reasonable response. Section C - Response to Excursions or Exceedances contains the Permittee's obligation with regard to the reasonable response steps required by this condition. Failure to take response steps shall be considered a deviation from this permit.

D.3.9 Parametric Monitoring

The Permittee shall record the pressure drop across the baghouse used in conjunction with 1SP1 and 2SP1 at least once per day when the associated emissions units are in operation. When for any one reading, the pressure drop across the baghouse is outside the normal range, the Permittee shall take a reasonable response. The normal range for this unit is a pressure drop between of 0.5 and 12.0 inches of water unless a different upper-bound or lower-bound value for this range is determined during the latest stack test. Section C – Response to Excursions or Exceedances contains the Permittee's obligation with regard to the reasonable response steps required by this condition. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps shall be considered a deviation from this permit.

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

D.3.10 Broken or Failed Bag Detection

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

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

D.3.11 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. The emissions unit shall be shut down no later than the completion of the processing of the material in the emission unit. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).

D.3.12 NOx Continuous Emissions Monitoring (CEMS) Equipment Downtime

In the event that a breakdown of a NOx continuous emissions monitoring system (CEMS) occurs, a record shall be made of the time and reason of the breakdown and efforts made to correct the problem.

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

D.3.13 Record Keeping Requirements

- (a) To document the compliance status with Conditions D.3.1 and D.3.3, the Permittee shall maintain records in accordance with (1) through (5) below. Records maintained for (1) through (5) shall be taken monthly and shall be complete and sufficient to establish compliance with the PM and SO₂ emission limits established in Conditions D.3.1 and D.3.3.
- (1) Calendar dates covered in the compliance determination period;
 - (2) Actual coal usage since last compliance determination period;
 - (3) Sulfur content, heat content, and ash content;
 - (4) Sulfur dioxide emission rates; and
 - (5) Independent laboratory analysis of coal.
- (b) To document the compliance status with Condition D.3.4, the Permittee shall maintain records in accordance with 40 CFR 60.49b(g), as listed in Condition E.5.2(9).
- (c) To document the compliance status with Condition D.3.8, the Permittee shall maintain a daily record of visible emission notations of the boiler's stack exhaust (SP1). The Permittee shall include in its daily record when a visible emission notation is not taken and the reason for the lack of visible emission notation (e.g. the process did not operate that day).
- (d) To document the compliance status with Condition D.3.9, the Permittee shall maintain a daily record of the pressure drop across the baghouses controlling the boilers. The Permittee shall include in its daily record when a pressure drop reading is not taken and the reason for the lack of a pressure drop reading (e.g. the process did not operate that day).
- (e) Section C - General Record Keeping Requirements contains the Permittee's obligations with regard to the records required by this condition.

D.3.14 Record Keeping Requirements for CEMS [326 IAC 2-7-5(3)(A)(iii)] [326 IAC 3-5]

- (a) The Permittee shall record the output of the continuous monitoring system and shall perform the required record keeping pursuant to 326 IAC 3-5-6 and 326 IAC 3-5-7.
- (b) In the event that a breakdown of the NOx continuous emission monitoring system (CEMS) occurs, the Permittee shall maintain records of all CEMS malfunctions, out of control periods, calibration and adjustment activities, and repair or maintenance activities.
- (c) Section C - General Record Keeping Requirements contains the Permittee's obligation with regard to the records required by this condition.

D.3.15 Reporting Requirements

- (a) A quarterly summary of the information to document the compliance status with Conditions D.3.1(a) and D.3.3 for boilers 1SP and 2SP1 shall be submitted not later than thirty (30) days after the end of the quarter being reported. Section C - General Reporting contains the Permittee's obligation with regard to the reporting required by this condition. The report submitted by the Permittee does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(35).
- (b) Pursuant to 40 CFR 60.49b(w), as listed in Condition E.5.2(9), and in order to document the compliance status with Condition D.3.4 for boiler 10SP1, reports specified in 40 CFR 60.49b(h) and (i), as listed in Condition E.5.2(9), shall be submitted for each six (6) month period and shall be postmarked by the 30th day following the end of the reporting period. Section C - General Reporting contains the Permittee's obligation with regard to the reporting required by this condition. The report submitted by the Permittee does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(35).

D.3.16 Reporting Requirements for CEMS [326 IAC 2-7-5(3)(A)(iii)] [326 IAC 3-5]

- (a) The Permittee shall prepare and submit to IDEM, OAQ a written report of the results of the calibration gas audits and relative accuracy test audits for each calendar quarter within thirty (30) calendar days after the end of each quarter. The report must contain the information required by 326 IAC 3-5-5(e)(2). The report submitted by the Permittee does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official," as defined by 326 IAC 2-7-1 (35).
- (b) Pursuant to 326 IAC 3-5-7(5), reporting of continuous monitoring system instrument downtime, except for zero (0) and span checks, which shall be reported separately, shall include the following:
- (1) date of downtime;
 - (2) time of commencement;
 - (3) duration of each downtime;
 - (4) reasons for each downtime; and
 - (5) nature of system repairs and adjustments.

The report submitted by the Permittee does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official," as defined by 326 IAC 2-7-1 (35).

Consent Decree

D.3.17 Consent Decree Limits, Compliance, and Record Keeping Requirements

- (a) As used in this section, "Consent Decree" shall mean the consent decree entered on January 16, 2007 and modified on June 14, 2011, in Civil Action No. 2:06-CV-02209, United States District Court for the Central District of Illinois, in which the Permittee and IDEM were parties. As required by Paragraph 23.b.(i) of the Consent Decree, the Permittee shall perform the following two (2) projects:

- (1) install a new heat exchange system on the make-up water system to recover wasted flash steam presently going to the atmosphere and the energy on hot water now sent to the sewer; and
 - (2) capture steam escaping from the turbine seals to heat make-up water by using an ejector, heat exchangers, and associated control system to condense most of the captured steam.
- (b) As required by Paragraph 23.b.(i) of the Consent Decree, the Permittee shall commence installation and begin operation of the projects identified in paragraphs (a)(1) and (a)(2) of this condition no later than December 31, 2011.
- (c) After installation of the projects identified in paragraphs (a)(1) and (a)(2) of this condition, the Permittee shall demonstrate that the projects result in the following emissions reductions:
 - (1) 0.24 tons per year (tpy) of PM;
 - (2) 0.24 tons per year (tpy) of PM₁₀;
 - (3) 0.24 tons per year (tpy) of PM_{2.5};
 - (4) 1.50 tons per year (tpy) of CO;
 - (5) 12.44 tons per year (tpy) of SO₂;
 - (6) 2.99 tons per year (tpy) of NO_x; and
 - (7) 1,593 tons per year (tpy) of CO₂.
- (d) The U.S. EPA shall extend the Compliance Date upon receiving the written statement of basis for extension by the Permittee demonstrating to EPA that third parties involved in the projects identified in paragraphs (a)(1) and (a)(2) of this condition require additional time (e.g., the equipment fabrication, delivery and availability schedules provided by third party vendors and the construction availability schedules of third party contractors). The Permittee shall take all reasonable steps to limit the duration of any extension of the Compliance Date under this provision. Court approval shall not be required for an extension of the Compliance Date pursuant to this provision. Any such extension beyond March 31, 2012, may require additional emission reductions from other projects if U.S. EPA determines that the delay has caused significant lost emission reductions.
- (e) The Permittee shall demonstrate that the emission reduction targets specified in paragraphs (c)(1) through (c)(7) of this condition were achieved by measuring the reduction in energy losses during the first three (3) months of operation of the projects identified in paragraphs (a)(1) and (a)(2) of this condition and comparing it with the energy losses occurring prior to the installation of the projects. The Permittee shall then calculate the annualized emissions reductions resulting from the reduction in energy losses assuming that the fuel mix was the same as the average fuel mix during the during the years 2007 through 2008 (Emissions Target Report).
- (f) The Permittee shall submit the Emissions Target Report required by paragraph (e) of this condition no later than sixty (60) days after completion of the first three (3) months of operation of the projects identified in paragraphs (a)(1) and (a)(2) of this condition.

- (g) The Permittee shall be deemed to have achieved the emission reduction targets specified in paragraphs (c)(1) through (c)(7) of this condition as long as the Emissions Target Report required by paragraph (e) of this condition demonstrates that the projects identified in paragraphs (a)(1) and (a)(2) of this condition achieved at least ninety percent (90%) of the emission reduction targets.

The above projects were completed in August of 2011 and October of 2011.

SECTION D.4 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description: Hexane Extraction System

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

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

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

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

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

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

D.4.2 Preventive Maintenance Plan [326 IAC 2-7-5(12)]

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

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

D.4.3 Volatile Organic Compounds (VOC) [40 CFR 64 (CAM)]

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

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

D.4.4 Monitoring

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

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

D.4.5 Record Keeping Requirements

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

D.4.6 Reporting Requirements

A quarterly summary of the information to document the compliance status with Condition D.4.1 shall be submitted not later than thirty (30) days after the end of the quarter being reported. Section C - General Reporting contains the Permittee's obligation with regard to the reporting required by this condition. The report submitted by the Permittee does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(35).

Consent Decree

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

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

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

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

Where:

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

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

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

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

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

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

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

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

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

SECTION D.5

EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

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

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

(ggg) One (1) Millfeed storage bin, identified as 22EX, with a maximum capacity of 156.3 tons/hr, using fabric filter as control and exhausting to stack 22EX.

(hhh) One (1) Coal receiving, handling and storage operation, identified as 6SP, with a maximum capacity of 150 tons/hr each and exhausting to stack 6SP.

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

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

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

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

Process / Emission Unit	P (tons/hr)	E (lbs/hr)
22EX	156.3	55.87
6SP	150	55.44
112EO1	3.3	9.1

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

$$E = 4.10 P^{0.67}$$

Where: E = Rate of emission in pounds per hour
P = Process weight rate in tons per hour

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

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

SECTION D.6

EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description: Pelletizer/Pellet Cooler System

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

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

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

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

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

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

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

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

D.6.2 Preventive Maintenance Plan [326 IAC 2-7-5(12)]

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

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

D.6.3 Particulate Control

In order to ensure compliance with Condition D.6.1, the cyclone for Particulate control shall be in operation at all times and control emissions from the pelletizer/pellet cooler at all times the pelletizer/pellet cooler is in operation.

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

D.6.4 Visible Emissions Notations

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

- (b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.
- (c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.
- (d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.
- (e) If abnormal emissions are observed, the Permittee shall take a reasonable response. Section C - Response to Excursions or Exceedances contains the Permittee's obligation with regard to the reasonable response steps required by this condition. Failure to take response steps 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.6.5 Record Keeping Requirements

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

**SECTION E.1 Standards of Performance for Grain Elevators [40 CFR 60, Subpart DD]
[326 IAC 12]**

Facility Description:

- (a) Truck Dump #2, identified as 1EL1, constructed in 1980, with a maximum capacity of 600 tons per hour, using a baghouse for particulate matter (PM) control, and exhausting to stack 1EL. This is an affected facility under the New Source Performance Standard for Grain Elevators 40 CFR 60.300, Subpart DD.
- (b) The following grain elevator East Workhouse components, together identified as 2EL1, with a maximum throughput of 270 tons per hour (Bottlenecked to 240 tons per hour), each, unless otherwise stated, using a baghouse and oil suppressant for PM control, and exhausting to stack 2EL, consisting of:
 - (1) One (1) Megatex screener, approved for construction in 2013, with a maximum throughput of 300 tons per hour, using a baghouse, identified as 2EL4, for particulate control, and exhausting to stack 2EL4. This is an affected facility under the New Source Performance Standard for Grain Elevators 40 CFR 60.300, Subpart DD;
 - (2) One (1) #1 scalperator, constructed in 2011 and approved for modification in 2013, with a maximum throughput of 120 tons per hour, using a baghouse, identified as 2EL4, for particulate control, and exhausting to stack 2EL4. This is an affected facility under the New Source Performance Standard for Grain Elevators 40 CFR 60.300, Subpart DD;
 - (3) One (1) #2 scalperator, constructed in 2011 and approved for modification in 2013, with a maximum throughput of 120 tons per hour, using a baghouse, identified as 2EL4, for particulate control, and exhausting to stack 2EL4. This is an affected facility under the New Source Performance Standard for Grain Elevators 40 CFR 60.300, Subpart DD;
- (g) The following grain elevator components together identified as 10EL1, with a maximum throughput of 720 tons per hour, each, using a baghouse and oil suppressant for PM control, and exhausting to stack 10EL, consisting of:
 - (1) One (1) rail loadout, constructed in 1984. This is an affected facility under the New Source Performance Standard for Grain Elevators 40 CFR 60.300, Subpart DD;
- (i) One (1) natural gas fired grain dryer #2, identified as 19EL1, constructed in 1995, with a maximum capacity 60 tons per hour and a maximum heat input capacity of 7 MMBtu/hr, using self-cleaning screens for PM control, and exhausting to vent 19EL. This is an affected facility under the New Source Performance Standard for Grain Elevators 40 CFR 60.300, Subpart DD.
- (j) One (1) truck dump #7, identified as 20EL1, constructed in 1997, with a maximum throughput of 450 tons per hour, consisting of one (1) weigh scale truck unloading pit, and two (2) enclosed bucket elevator legs, using two (2) baghouses in parallel for PM control, and exhausting to stack 20EL. This is an affected facility under the New Source Performance Standard for Grain Elevators 40 CFR 60.300, Subpart DD.
- (s) One (1) natural gas fired grain dryer #1, identified as 16EL1, constructed in 1986, with a maximum capacity of 75 tons per hour and a maximum heat input capacity of 7 MMBtu/hr, using self-cleaning screens for PM control, and exhausting to stack 16EL. This is an affected

facility under the New Source Performance Standard for Grain Elevators 40 CFR 60.300, Subpart DD.

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

New Source Performance Standards (NSPS) [40 CFR 60]

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

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

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

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

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

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

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

SECTION E.2 New Source Performance Standards (NSPS) For Small Industrial- Commercial-Institutional Steam Generating Units [40 CFR 60, Subpart Dc] [326 IAC 12]

Facility Description:

- (x) One (1) natural gas fired hydrogen generator furnace, identified as 107EO1, constructed in 1992, with a maximum heat input capacity of 25.2 MMBtu/hr, and exhausting to stack 107EO. Under 40 CFR 60, Subpart Dc, 107EO1 is considered an affected facility. Under 40 CFR 63, Subpart DDDDD, 107EO1 is considered an existing affected source.
- (ss) One (1) natural gas fired steam generator, identified as 110EO1, constructed in 2002, with a maximum heat input capacity of 14 MMBtu/hr, and exhausting to stack 110EO. Under 40 CFR 60, Subpart Dc, 110EO1 is considered an affected facility. Under 40 CFR 63, Subpart DDDDD, 110EO1 is considered an existing affected source.
- (tt) One (1) natural gas fired steam generator #3, identified as 108EO1, constructed in 1994, with a maximum heat input capacity of 14 MMBtu/hr, and exhausting to stack 108EO. Under 40 CFR 60, Subpart Dc, 108EO1 is considered an affected facility. Under 40 CFR 63, Subpart DDDDD, 108EO1 is considered an existing affected source.
- (fff) One (1) natural gas-fired boiler, identified as 9SP1, constructed in 2013, with a maximum heat input capacity of 99 MMBtu/hr, equipped with low NOx burners and flue gas recirculation (FGR) for NOx control, and exhausting to stack 9SP. Under 40 CFR 60, Subpart Dc, 9SP1 is considered an affected facility. Under 40 CFR 63, Subpart DDDDD, 9SP1 is considered a new affected source.

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

New Source Performance Standards (NSPS) [40 CFR 60]

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

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

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

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

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

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

- (1) 40 CFR 60.40c (a), (b)
- (2) 40 CFR 60.41c
- (3) 40 CFR 60.42c (a), (c)(1), (g), (i)
- (4) 40 CFR 60.43c (a), (a)(1), (c), (d)
- (5) 40 CFR 60.44c (a), (b), (c), (d), (f), (f)(1), (h), (j)
- (6) 40 CFR 60.45c (a), (b), (c)
- (7) 40 CFR 60.46c (d), (d)(1), (f)
- (8) 40 CFR 60.47c (a), (b)
- (9) 40 CFR 60.48(c) (a)(1), (g), (i), (j)

SECTION E.3 National Emission Standards for Hazardous Air Pollutants: Solvent Extraction for Vegetable Oil Production [40 CFR 63, Subpart GGGG] [326 IAC 20-60]

Facility Description:

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

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

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

National Emission Standards for Hazardous Air Pollutants (NESHAP) [40 CFR 60]

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

(a) Pursuant to 40 CFR 63.2870, the Permittee shall comply with the provisions of 40 CFR Part 63, Subpart A – General Provisions, which are incorporated by reference as 326 IAC 20-1-1, as specified in 40 CFR Part 63, Subpart GGGG in accordance with schedule in 40 CFR 63 Subpart GGGG.

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

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

and

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

E.3.2 National Emission Standards for Hazardous Air Pollutants: Solvent Extraction for Vegetable Oil Production NESHAP [326 IAC 20-60] [40 CFR Part 63, Subpart GGGG]

The Permittee which engages in production of vegetable oil shall comply with the following provisions of 40 CFR 63, Subpart GGGG, which are incorporated by reference as 326 IAC 20-60 (included as Attachment C of this permit), as specified as follows:

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

SECTION E.4 National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers and Process Heaters [40 CFR 63, Subpart DDDDD] [326 IAC 20-95]

Facility Description:

- (x) One (1) natural gas fired hydrogen generator furnace, identified as 107EO1, constructed in 1992, with a maximum heat input capacity of 25.2 MMBtu/hr, and exhausting to stack 107EO. Under 40 CFR 60, Subpart Dc, 107EO1 is considered an affected facility. Under 40 CFR 63, Subpart DDDDD, 107EO1 is considered an existing affected source.
- (ss) One (1) natural gas fired steam generator, identified as 110EO1, constructed in 2002, with a maximum heat input capacity of 14 MMBtu/hr, and exhausting to stack 110EO. Under 40 CFR 60, Subpart Dc, 110EO1 is considered an affected facility. Under 40 CFR 63, Subpart DDDDD, 110EO1 is considered an existing affected source.
- (tt) One (1) natural gas fired steam generator #3, identified as 108EO1, constructed in 1994, with a maximum heat input capacity of 14 MMBtu/hr, and exhausting to stack 108EO. Under 40 CFR 60, Subpart Dc, 108EO1 is considered an affected facility. Under 40 CFR 63, Subpart DDDDD, 108EO1 is considered an existing affected source.
- (uu) One (1) B & W coal fired boiler, identified as 1SP1, constructed in 1950, with a maximum heat input capacity of 108 MMBtu/hr, using multiple cyclones and a baghouse for control of particulate and HAPs, and exhausting to stack 1SP. Under 40 CFR 63, Subpart DDDDD, 1SP1 is considered an existing affected source.
- (vv) One (1) Keeler coal fired boiler, identified as 2SP1, constructed in 1963, with a maximum heat input capacity of 52.75 MMBtu/hr, using multiple cyclones and a baghouse for control of particulate and HAPs, and exhausting to stack 1SP. Under 40 CFR 63, Subpart DDDDD, 2SP1 is considered and existing affected source.
- (ww) One (1) Murray natural gas fired boiler, identified as 3SP1, constructed in 1968, with a maximum heat input capacity of 110.2 MMBtu/hr, and exhausting to stack 1SP. Under 40 CFR 63, Subpart DDDDD, 3SP1 is considered an existing affected source.
- (fff) One (1) natural gas-fired boiler, identified as 9SP1, constructed in 2013, with a maximum heat input capacity of 99 MMBtu/hr, equipped with low NOx burners and flue gas recirculation (FGR) for NOx control, and exhausting to stack 9SP. Under 40 CFR 60, Subpart Dc, 9SP1 is considered an affected facility. Under 40 CFR 63, Subpart DDDDD, 9SP1 is considered a new affected source.
- (iii) One (1) B & W natural gas-fired boiler, identified as 10SP1, approved in 2015 for installation, with a maximum heat input capacity of 178.41 MMBtu/hr, using low NOx burners and flue gas recirculation, and exhausting to stack 10SP. Under 40 CFR 60, Subpart Db, 10SP1 is considered an affected facility. Under 40 CFR 63, Subpart DDDDD, 10SP1 is considered a new affected source.

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

National Emission Standards for Hazardous Air Pollutants (NESHAP) [40 CFR 60]

E.4.1 General Provisions Relating to NESHAP DDDDD [326 IAC 20-1] [40 CFR Part 63, Subpart A]

(a) Pursuant to 40 CFR 63.7565, the Permittee shall comply with the provisions of 40 CFR Part 63, Subpart A – General Provisions, which are incorporated by reference as 326 IAC 20-1-1, as specified in 40 CFR Part 63, Subpart DDDDD.

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

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

and

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

E.4.2 National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers and Process Heaters [326 IAC 20-95] [40 CFR Part 63, Subpart DDDDD]

The Permittee shall comply with the following provisions of 40 CFR 63, Subpart DDDDD, which are incorporated by reference as 326 IAC 20-95 (included as Attachment D of this permit):

(a) For units 107EO1, 110EO1, 108EO1, and 3SP1 (existing affected units designed to burn gas 1 fuels):

- (1) 40 CFR 63.7480
- (2) 40 CFR 63.7485
- (3) 40 CFR 63.7490(a), (d)
- (4) 40 CFR 63.7495(b), (d)
- (5) 40 CFR 63.7499(l)
- (6) 40 CFR 63.7500(a)(1), (a)(3), (b), (e), (f)
- (7) 40 CFR 63.7501
- (8) 40 CFR 63.7505(a)
- (9) 40 CFR 63.7510(e)
- (10) 40 CFR 63.7515(d), (g)
- (11) 40 CFR 63.7530(d), (e)
- (12) 40 CFR 63.7540(a)(10), (a)(13)
- (13) 40 CFR 63.7545(a), (b), (e)(1), (e)(8)
- (14) 40 CFR 63.7550(a), (b), (c)(1), (c)(5)(i)-(iv), (c)(5)(xiv), (h)
- (15) 40 CFR 63.7555(a)
- (16) 40 CFR 63.7560
- (17) 40 CFR 63.7565
- (18) 40 CFR 63.7570
- (19) 40 CFR 63.7575
- (20) Table 3 to Subpart DDDDD of Part 63 (3) and (4)
- (21) Table 9 to Subpart DDDDD of Part 63
- (22) Table 10 to Subpart DDDDD of Part 63

(b) For units 1SP1 and 2SP1 (existing affected stokers designed to burn coal/solid fossil fuel):

- (1) 40 CFR 63.7480
- (2) 40 CFR 63.7485
- (3) 40 CFR 63.7490(a), (d)
- (4) 40 CFR 63.7495(b), (d)
- (5) 40 CFR 63.7499(b), (r)
- (6) 40 CFR 63.7500(a), (b), (f)
- (7) 40 CFR 63.7501
- (8) 40 CFR 63.7505
- (9) 40 CFR 63.7510(a), (b), (c), (d), (e), (j)
- (10) 40 CFR 63.7515
- (11) 40 CFR 63.7520
- (12) 40 CFR 63.7521(a), (b), (c), (d), (e)
- (13) 40 CFR 63.7522
- (14) 40 CFR 63.7525
- (15) 40 CFR 63.7530(a), (b), (c), (e), (f), (h)
- (16) 40 CFR 63.7535
- (17) 40 CFR 63.7540
- (18) 40 CFR 63.7541
- (19) 40 CFR 63.7545(a), (b), (d), (e)
- (20) 40 CFR 63.7550
- (21) 40 CFR 63.7555
- (22) 40 CFR 63.7560
- (23) 40 CFR 63.7565
- (24) 40 CFR 63.7570
- (25) 40 CFR 63.7575
- (26) Table 2 to Subpart DDDDD of Part 63 (1), (2), (4)
- (27) Table 3 to Subpart DDDDD or Part 63 (3), (4), (5), (6)
- (28) Table 4 to Subpart DDDDD of Part 63 (3), (7), (8), (9)
- (29) Table 5 to Subpart DDDDD of Part 63
- (30) Table 6 to Subpart DDDDD of Part 63
- (31) Table 7 to Subpart DDDDD of Part 63 (5)
- (32) Table 8 to Subpart DDDDD of Part 63
- (33) Table 9 to Subpart DDDDD of Part 63
- (34) Table 10 to Subpart DDDDD of Part 63

(c) For units 9SP1 and 10SP1 (new affected units designed to burn gas 1 fuels):

- (1) 40 CFR 63.7480
- (2) 40 CFR 63.7485
- (3) 40 CFR 63.7490(a), (b)
- (4) 40 CFR 63.7495(a), (d)
- (5) 40 CFR 63.7499(l)
- (6) 40 CFR 63.7500(a)(1), (a)(3), (b), (e), (f)
- (7) 40 CFR 63.7501
- (8) 40 CFR 63.7505(a)
- (9) 40 CFR 63.7510(g)
- (10) 40 CFR 63.7515(d), (g)
- (11) 40 CFR 63.7530(d)
- (12) 40 CFR 63.7540(a)(10), (a)(13)
- (13) 40 CFR 63.7545(a), (c), (e)(1), (e)(8)
- (14) 40 CFR 63.7550(a), (b), (c)(1), (c)(5)(i)-(iv), (c)(5)(xiv), (h)
- (15) 40 CFR 63.7555(a)
- (16) 40 CFR 63.7560

- (17) 40 CFR 63.7565
- (18) 40 CFR 63.7570
- (19) 40 CFR 63.7575
- (20) Table 3 to Subpart DDDDD of Part 63 (3)
- (21) Table 9 to Subpart DDDDD of Part 63
- (22) Table 10 to Subpart DDDDD of Part 63

E.4.3 Testing Requirements [326 IAC 2-7-6(1),(6)] [326 IAC 2-1.1-11]

The Permittee shall perform the stack testing required under NESHAP 40 CFR 63, Subpart DDDDD, utilizing methods as approved by the Commissioner to document compliance with Condition E.4.2. These tests shall be repeated at least once every five (5) years from the date of the last valid compliance demonstration. Testing shall be conducted in accordance with the provisions of 326 IAC 3-6 (Source Sampling Procedures). Section C - Performance Testing contains the Permittee's obligation with regard to the performance testing required by this condition.

SECTION E.5 New Source Performance Standards (NSPS) for Industrial-Commercial-Institutional Steam Generating Units [40 CFR 60, Subpart Db]

Facility Description:

- (iii) One (1) B & W natural gas-fired boiler, identified as 10SP1, approved in 2015 for installation, with a maximum heat input capacity of 178.41 MMBtu/hr, using low NOx burners and flue gas recirculation, and exhausting to stack 10SP. Under 40 CFR 60, Subpart Db, 10SP1 is considered an affected facility. Under 40 CFR 63, Subpart DDDDD, 10SP1 is considered a new affected source.

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

New Source Performance Standards (NSPS) [40 CFR 60]

E.5.1 General Provisions Relating to New Source Performance Standards [326 IAC 12-1] [40 CFR 60, Subpart A]

- (a) The provisions of 40 CFR 60, Subpart A – General Provisions, which are incorporated by reference in 326 IAC 12-1, apply to the facilities described in this SECTION E.5, except when otherwise specified in 40 CFR 60, Subpart Db.
- (b) Pursuant to 40 CFR 60.19, the Permittee shall submit all required notifications and reports to:

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

E.5.2 Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units [40 CFR 60, Subpart Db] [326 IAC 12]

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

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

SECTION E.6 New Standards of Performance (NSPS) for Stationary Compression Ignition Internal Combustion Engines [40 CFR 60, Subpart IIII]

Facility Description:

- (b) Stationary fire pumps.
 - (1) Two (2) stationary diesel-fired fire pump engine, constructed in 1980, permitted in 2008, with a maximum power output rate of 380 hp.
 - (2) One (1) stationary diesel-fired fire pump engine, permitted in 2008, with a maximum power output rate of 85 hp.

This is an affected source under National Emission Standards for Hazardous Air Pollutants: Stationary Reciprocating Internal Combustion Engines [40 CFR 63, Subpart ZZZZ] and New Standards of Performance (NSPS) for Stationary Compression Ignition Internal Combustion Engines [40 CFR 60, Subpart IIII].

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

New Source Performance Standards (NSPS) [40 CFR 60]

E.6.1 General Provisions Relating to New Source Performance Standards [326 IAC 12-1] [40 CFR 60, Subpart A]

- (a) The provisions of 40 CFR 60, Subpart A – General Provisions, which are incorporated by reference in 326 IAC 12-1, apply to the facilities described in this SECTION E.6, except when otherwise specified in 40 CFR 60, Subpart IIII.
- (b) Pursuant to 40 CFR 60.19, the Permittee shall submit all required notifications and reports to:

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

E.6.2 Standards of Performance for Stationary Compression Ignition Internal Combustion Engines [40 CFR 60, Subpart IIII] [326 IAC 12]

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

- (1) 40 CFR 60.4200(a)(2)(ii) and (a)(4)
- (2) 40 CFR 60.4205(c) and (e)
- (3) 40 CFR 60.4206
- (4) 40 CFR 60.4207(b)
- (5) 40 CFR 60.4208
- (6) 40 CFR 60.4209, (a)
- (7) 40 CFR 60.4211(a), (c), (f), and (g)(2)
- (8) 40 CFR 60.4212, (a), (b), (c), and (e)
- (9) 40 CFR 60.4214(b)
- (10) 40 CFR 60.4218

- (11) 40 CFR 60.4219
- (12) Table 4 to 40 CFR 60, Subpart IIII
- (13) Table 5 to 40 CFR 60, Subpart IIII
- (14) Table 8 to 40 CFR 60, Subpart IIII

SECTION E.7 National Emission Standards for Hazardous Air Pollutants: Stationary Reciprocating Internal Combustion Engines [40 CFR 63, Subpart ZZZZ] [326 IAC 20-63]

Facility Description:

Insignificant Activities

(b) Stationary fire pumps.

(1) Two (2) stationary diesel-fired fire pump engine, constructed in 1980, permitted in 2008, with a maximum power output rate of 380 hp.

(2) One (1) stationary diesel-fired fire pump engine, permitted in 2008, with a maximum power output rate of 85 hp.

This is an affected source under National Emission Standards for Hazardous Air Pollutants: Stationary Reciprocating Internal Combustion Engines [40 CFR 63, Subpart ZZZZ] and New Standards of Performance (NSPS) for Stationary Compression Ignition Internal Combustion Engines [40 CFR 60, Subpart IIII].

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

National Emission Standards for Hazardous Air Pollutants (NESHAP) [40 CFR 60]

E.7.1 General Provisions Relating to NESHAP ZZZZ [326 IAC 20-1] [40 CFR Part 63, Subpart A]

(a) Pursuant to 40 CFR 63.6665, the Permittee shall comply with the provisions of 40 CFR Part 63, Subpart A – General Provisions, which are incorporated by reference as 326 IAC 20-1-1, as specified in 40 CFR Part 63, Subpart ZZZZ in accordance with schedule in 40 CFR 63 Subpart ZZZZ.

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

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

and

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

E.7.2 National Emission Standards for Hazardous Air Pollutants: Stationary Reciprocating Internal Combustion Engines [326 IAC 20-82] [40 CFR 63, Subpart ZZZZ]

The Permittee shall comply with the following provisions of 40 CFR 63, Subpart ZZZZ, which are incorporated by reference as 326 IAC 20-82 (included as Attachment G of this permit), as specified as follows:

- (1) 40 CFR 63.6580;
- (2) 40 CFR 63.6585(a), (b);
- (3) 40 CFR 63.6590(a)(1)(ii);
- (4) 40 CFR 63.6595(a)(1), (c);
- (5) 40 CFR 63.6602;
- (6) 40 CFR 63.6605;
- (7) 40 CFR 63.6612;
- (8) 40 CFR 63.6620;
- (9) 40 CFR 63.6625(e), (f), (h), (i), (j);
- (10) 40 CFR 63.6635;
- (11) 40 CFR 63.6640(a), (b), (f)(1);
- (12) 40 CFR 63.6645(a)(5);
- (13) 40 CFR 63.6650(a), (b), (c)(1) through (c)(5), (d), (f);
- (14) 40 CFR 63.6655(a), (d), (e)(2);
- (15) 40 CFR 63.6660;
- (16) 40 CFR 63.6665;
- (17) 40 CFR 63.6670;
- (18) 40 CFR 63.6675;
- (19) Table 2c to 40 CFR 63 Subpart ZZZZ;
- (20) Table 4 to 40 CFR 63 Subpart ZZZZ;
- (21) Table 6 to 40 CFR 63 Subpart ZZZZ; and
- (22) Table 7 to 40 CFR 63 Subpart ZZZZ.

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

**PART 70 OPERATING PERMIT
CERTIFICATION**

Source Name: Bunge North America (East), LLC
Source Address: 1200 North 2nd Street, Decatur, Indiana 46733
Part 70 Permit No.: T001-31996-00005

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

Please check what document is being certified:

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

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

Signature:

Printed Name:

Title/Position:

Phone:

Date:

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

**PART 70 OPERATING PERMIT
EMERGENCY OCCURRENCE REPORT**

Source Name: Bunge North America (East), LLC
Source Address: 1200 North 2nd Street, Decatur, Indiana 46733
Part 70 Permit No.: T001-31996-00005

This form consists of 2 pages

Page 1 of 2

<input type="checkbox"/> This is an emergency as defined in 326 IAC 2-7-1(12) <ul style="list-style-type: none">• The Permittee must notify the Office of Air Quality (OAQ), no later than four (4) daytime business hours (1-800-451-6027 or 317-233-0178, ask for Compliance and Enforcement Branch); and• The Permittee must submit notice in writing or by facsimile no later than two (2) days (Facsimile Number: 317-233-6865), and follow the other requirements of 326 IAC 2-7-16.

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

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

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

Page 2 of 2

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

Form Completed By: _____

Title/Position: _____

Date: _____

Phone: _____

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

Part 70 Quarterly Report

Source Name: Bunge North America (East), LLC
Source Address: 1200 North 2nd Street, Decatur, Indiana 46733
Part 70 Permit No.: T001-31996-00005
Facility: Oil Extraction facilities
Parameter: Hexane Usage
Limit: Less than 330,000 gallons per twelve consecutive month period.

QUARTER: _____ YEAR: _____

Month	Hexane Usage for This Month (gal)	Hexane Usage for Previous 11 Months (gal)	Hexane Usage for 12-Month Period (gal)

- No deviation occurred in this quarter.
- Deviations occurred in this quarter.
Deviation has been reported on: _____

Submitted By: _____

Title/Position: _____

Signature: _____

Date: _____

Phone: _____

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

Part 70 Quarterly Report

Source Name: Bunge North America (East), LLC
Source Address: 1200 North 2nd Street, Decatur, Indiana 46733
Part 70 Permit No.: T001-31996-00005
Facility: Grain Processing facilities
Parameter: Soybean grain processed after the grain dryers
Limit: Less than 1,368,750 tons per twelve consecutive month period

QUARTER: _____ YEAR: _____

Month	Soybean grain processed for This Month (tons)	Soybean grain processed for Previous 11 Months (tons)	Soybean grain processed for 12-Month Period (tons)

- No deviation occurred in this quarter.
- Deviations occurred in this quarter.
Deviation has been reported on: _____

Submitted By: _____

Title/Position: _____

Signature: _____

Date: _____

Phone: _____

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

Part 70 Quarterly Report

Source Name: Bunge North America (East), LLC
Source Address: 1200 North 2nd Street, Decatur, Indiana 46733
Part 70 Permit No.: T001-31996-00005
Facility: Coal-fired Boilers (1SP1 and 2SP1)
Parameter: SO₂ Emissions
Limit: Less than 6.0 pounds per MMBtu

QUARTER: _____ YEAR: _____

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

- No deviation occurred in this quarter.
- Deviations occurred in this quarter.
Deviation has been reported on: _____

Submitted By: _____

Title/Position: _____

Signature: _____

Date: _____

Phone: _____

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

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

Source Name: Bunge North America (East), LLC
Source Address: 1200 North 2nd Street, Decatur, Indiana 46733
Part 70 Permit No.: T001-31996-00005

Months: _____ **to** _____ **Year:** _____

Page 1 of 2

This report shall be submitted quarterly based on a calendar year. Proper notice submittal under Section B –Emergency Provisions satisfies the reporting requirements of paragraph (a) of Section C- General Reporting. Any deviation from the requirements of this permit, the date(s) of each deviation, the probable cause of the deviation, and the response steps taken must be reported. A deviation required to be reported pursuant to an applicable requirement that exists independent of the permit shall be reported according to the schedule stated in the applicable requirement and does not need to be included in this report. Additional pages may be attached if necessary. If no deviations occurred, please specify in the box marked “No deviations occurred this reporting period”.

NO DEVIATIONS OCCURRED THIS REPORTING PERIOD.

THE FOLLOWING DEVIATIONS OCCURRED THIS REPORTING PERIOD

Permit Requirement (specify permit condition #)

Date of Deviation:

Duration of Deviation:

Number of Deviations:

Probable Cause of Deviation:

Response Steps Taken:

Permit Requirement (specify permit condition #)

Date of Deviation:

Duration of Deviation:

Number of Deviations:

Probable Cause of Deviation:

Response Steps Taken:

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

Form Completed By: _____

Title/Position: _____

Date: _____

Phone: _____

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

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

Source Description and Location

Source Name:	Bunge North America (East), LLC
Source Location:	1200 N. 2nd Street, Decatur, IN 46733
County:	Adams
SIC Code:	2075, 2079, 5153
Operation Permit No.:	T001-31996-00005
Operation Permit Issuance Date:	October 24, 2013
Significant Source Modification No.:	001-35187-00005
Significant Permit Modification No.:	001-35195-00005
Permit Reviewer:	Laura Spriggs Thompson

Existing Approvals

The source was issued Part 70 Operating Permit Renewal No. T001-31996-00005 on October 24, 2013. There have been no subsequent approvals issued.

County Attainment Status

The source is located in Adams County.

Pollutant	Designation
SO ₂	Better than national standards.
CO	Unclassifiable or attainment effective November 15, 1990.
O ₃	Unclassifiable or attainment effective July 20, 2012 for the 2008 8-hour ozone standard. ¹
PM _{2.5}	Unclassifiable or attainment effective April 5, 2005, for the annual PM _{2.5} standard.
PM _{2.5}	Unclassifiable or attainment effective December 13, 2009, for the 24-hour PM _{2.5} standard.
PM ₁₀	Unclassifiable effective November 15, 1990.
NO ₂	Cannot be classified or better than national standards.
Pb	Unclassifiable or attainment effective December 31, 2011.
¹ Unclassifiable or attainment effective October 18, 2000, for the 1-hour ozone standard which was revoked effective June 15, 2005.	

- (a) **Ozone Standards**
Volatile organic compounds (VOC) and Nitrogen Oxides (NO_x) are regulated under the Clean Air Act (CAA) for the purposes of attaining and maintaining the National Ambient Air Quality Standards (NAAQS) for ozone. Therefore, VOC and NO_x emissions are considered when evaluating the rule applicability relating to ozone. Adams County has been designated as attainment or unclassifiable for ozone. Therefore, VOC and NO_x emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.
- (b) **PM_{2.5}**
Adams County has been classified as attainment for PM_{2.5}. Therefore, direct PM_{2.5}, SO₂,

and NO_x emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.

- (c) Other Criteria Pollutants
Adams County has been classified as attainment or unclassifiable in Indiana for SO₂, CO, PM₁₀, NO₂, and lead. Therefore, these emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.

Fugitive Emissions

This source consists of stationary grain handling, soybean meal production, soybean oil extraction, and boilers with a total heat input rating of greater than 250 million British thermal units per hour (MMBtu/hr).

- (a) EPA published a final rule in the Federal Register on May 1, 2007, that excluded ethanol production facilities that produce ethanol through natural fermentation, from the major source category "Chemical Process Plants". Therefore, the fugitive emissions from ethanol production facilities are not counted toward determination of PSD, Emission Offset, and Part 70 Permit applicability.
- (b) The grain elevator is subject to 40 CFR 60, Subpart DD, which was in effect on August 7, 1980; therefore, fugitive emissions are counted toward the determination of PSD, Emission Offset, and Part 70 Permit applicability for the units subject to Subpart DD.
- (c) The boilers with a total heat input rating of greater than 250 MMBtu/hr are considered one of the 28 listed source categories, based on the EPA guidance for "nesting activities". Therefore, any fugitive emissions from these boilers are counted toward Part 70, PSD, and Emission Offset applicability.
- (d) The source is subject to 40 CFR 60, Subparts Db, Dc, and IIII; however, each of these rules was promulgated after August 7, 1980. Therefore, fugitive emissions from the units subject to these rules are not counted toward Part 70, PSD, and Emission Offset applicability due to these rules. *Note: Any Fugitive Emissions from the fossil fuel fired boilers are counted toward Part 70, PSD, and Emission Offset applicability per (c) above.*

Source Status - Existing Source

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

Pollutant	Emissions (ton/yr)
PM	Greater than 250
PM ₁₀	Greater than 250
PM _{2.5}	Greater than 250
SO ₂	Greater than 250
NO _x	Greater than 250
VOC	Less than 100
CO	Greater than 100, Less than 250
Single HAP	Less than 10
Total HAPs	Greater than 25

On June 23, 2014, in the case of *Utility Air Regulatory Group v. EPA*, cause no. 12-1146, (available at http://www.supremecourt.gov/opinions/13pdf/12-1146_4g18.pdf) the United States Supreme Court ruled that the U.S. EPA does not have the authority to treat greenhouse gases (GHGs) as an air pollutant for the purpose of determining operating permit applicability or PSD Major source status. On July 24, 2014, the U.S. EPA issued a memorandum to the Regional

Administrators outlining next steps in permitting decisions in light of the Supreme Court's decision. U.S. EPA's guidance states that U.S. EPA will no longer require PSD or Title V permits for sources "previously classified as 'Major' based solely on greenhouse gas emissions."

The Indiana Environmental Rules Board adopted the GHG regulations required by U.S. EPA at 326 IAC 2-2-1(zz), pursuant to Ind. Code § 13-14-9-8(h) (Section 8 rulemaking). A rule, or part of a rule, adopted under Section 8 is automatically invalidated when the corresponding federal rule, or part of the rule, is invalidated. Due to the United States Supreme Court Ruling, IDEM, OAQ cannot consider GHG emissions to determine operating permit applicability or PSD applicability to a source or modification.

- (a) This existing source is a major stationary source, under PSD (326 IAC 2-2), because a PSD regulated pollutant, excluding GHGs, is emitted at a rate of 250 tons per year or more, and it is not one of the twenty-eight (28) listed source categories, as specified in 326 IAC 2-2-1(ff)(1).
- (b) This existing source is a major source of HAPs, as defined in 40 CFR 63.2, because HAP emissions are 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).
- (c) These emissions are based upon the ATSD Calculations for Part 70 Operating Permit Renewal No. T001-31996-00005, issued on October 24, 2013.

Description of Proposed Modification

The Office of Air Quality (OAQ) has reviewed a modification application, submitted by Bunge North America (East), LLC on December 1, 2014, relating to the addition of a new natural gas fired boiler and the removal of three boilers from the plant.

New Boiler:

- One (1) B & W natural gas-fired boiler, identified as 10SP1, approved in 2015 for installation, with a maximum heat input capacity of 178.41 MMBtu/hr, using low NOx burners and flue gas recirculation, and exhausting to stack 10SP.

Boilers to be Removed Prior to Start-Up of Boiler 10SP1:

- One (1) B & W coal fired boiler, identified as 1SP1, constructed in 1950, with a maximum heat input capacity of 108 MMBtu/hr, using multiple cyclones and a baghouse for control of particulate and HAPs, and exhausting to stack 1SP.
- One (1) Keeler coal fired boiler, identified as 2SP1, constructed in 1963, with a maximum heat input capacity of 52.75 MMBtu/hr, using multiple cyclones and a baghouse for control of particulate and HAPs, and exhausting to stack 1SP.
- One (1) natural gas-fired boiler, identified as 9SP1, approved for construction in 2012, with a maximum heat input capacity of 99 MMBtu/hr, equipped with low NOx burners and flue gas recirculation (FGR) for NOx control, and exhausting to stack 9SP.

Note: The descriptive information for these boilers and their applicable requirements will remain in the permit until the Permittee has removed them and submitted a separate application to remove them from the permit.

Enforcement Issues

There are no pending enforcement actions related to this modification.

Stack Summary

Stack ID	Operation	Height (ft)	Diameter (ft)	Flow Rate (acfm)	Temperature (°F)
10SP	Boiler 10SP1	84	3.75	33,000	300

Emission Calculations

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

Permit Level Determination – Part 70 Modification to an Existing Source

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

The following table is used to determine the appropriate permit level under 326 IAC 2-7-10.5. This table reflects the PTE before controls. Control equipment is not considered federally enforceable until it has been required in a federally enforceable permit. If the control equipment has been determined to be integral, the table reflects the PTE after consideration of the integral control device.

Increase in PTE Before Controls of the Modification	
Pollutant	Potential To Emit (ton/yr)
PM	1.5
PM ₁₀	5.8
PM _{2.5}	5.8
SO ₂	0.5
VOC	4.2
CO	64.4
NO _x *	156.29
Single HAPs	<10
Total HAPs	<25

*The NO_x emissions listed here are based on NO_x emission limit pursuant to 40 CFR 60, Subpart Db.

Appendix A of this TSD reflects the unrestricted potential emissions of the modification.

This source modification is subject to 326 IAC 2-7-10.5(g)(4)(C) (Significant Source Modification) because the modification has the potential to emit greater than or equal to twenty-five (25) tons per year of NO_x. Additionally, the modification will be incorporated into the Part 70 Operating Permit through a Significant Permit Modification issued pursuant to 326 IAC 2-7-12 because the modification requires a case-by-case determination of an emission limitation and the modification requires a significant change in existing monitoring conditions.

Permit Level Determination – PSD

Emissions Increase of the Project

The table below summarizes the emissions increase of the project, as determined by 326 IAC 2-2-2(d)(4):

Process / Emission Unit	Project Emissions Increase (ton/yr)						
	PM	PM ₁₀	PM _{2.5} *	SO ₂	NO _x	VOC	CO
New Unit: Boiler 10SP1	1.46	5.82	5.82	0.46	156.3	4.21	64.35
Total Emissions Increase for the Modification	1.46	5.82	5.82	0.46	156.3	4.21	64.35
PSD Significant Levels	25	15	10	40	40	40	100

*PM_{2.5} listed is direct PM_{2.5}.

Based on the above analysis, the project would result in a significant emissions increase for NO_x. Therefore, NO_x will be evaluated to see if it would also result in a significant net emissions increase.

Net Emissions Increase of the Project (NO_x)

The table below summarizes the net emissions increase of the project for NO_x, as defined in 326 IAC 2-2-1(ii):

Unit	NO _x (All values are ton/yr)			
	Projected Actual Emissions	Baseline Actual Emissions	Increases in Emissions	Decreases in Emissions
<i>Emissions Increase for New Units:</i>				
NG Boiler 10SP1	156.3	0	156.3	0
<i>Contemporaneous Increases</i>				
NG Boiler 9SP1 - 2013	13.88	0	13.88	0
<i>Contemporaneous Decreases</i>				
Coal Boiler 1SP1 - to be removed	0	187.6	0	-187.6
Coal Boiler 2SP1 - to be removed	0	55.37	0	-55.37
NG Boiler 9SP1 - to be removed	0	13.88	0	-13.88
Total:			170.17	-256.85
Net Emissions Increase:			-86.68	
PSD Significant Level:			40	

Appendix A to this Technical Support Document provides more details on the values used for this analysis.

On June 23, 2014, in the case of *Utility Air Regulatory Group v. EPA*, cause no. 12-1146, (available at http://www.supremecourt.gov/opinions/13pdf/12-1146_4g18.pdf) the United States Supreme Court ruled that the U.S. EPA does not have the authority to treat greenhouse gases (GHGs) as an air pollutant for the purpose of determining operating permit applicability or PSD Major source status. On July 24, 2014, the U.S. EPA issued a memorandum to the Regional Administrators outlining next steps in permitting decisions in light of the Supreme Court's decision. U.S. EPA's guidance states that U.S. EPA will no longer require PSD or Title V permits for sources "previously classified as 'Major' based solely on greenhouse gas emissions."

The Indiana Environmental Rules Board adopted the GHG regulations required by U.S. EPA at 326 IAC 2-2-1(zz), pursuant to Ind. Code § 13-14-9-8(h) (Section 8 rulemaking). A rule, or part of a rule, adopted under Section 8 is automatically invalidated when the corresponding federal rule, or part of the rule, is invalidated. Due to the United States Supreme Court Ruling, IDEM, OAQ cannot consider GHG emissions to determine operating permit applicability or PSD applicability to a source or modification.

This modification to an existing major PSD stationary source is not major because the net emissions increase of NO_x and the emissions increases of each other PSD regulated pollutant, excluding GHGs, are less than the PSD significant levels. Therefore, pursuant to 326 IAC 2-2, the PSD requirements do not apply.

In order to render 326 IAC 2-2 (PSD) not applicable to the modification, the Permittee shall comply with the following:

- (a) NO_x emissions from boiler 10SP1 shall not exceed the NO_x emission limit in 40 CFR 60.44b(a)(1)(ii), Subpart Db (0.2 lb/MMBtu), as listed in Condition E.5.2(4) of the permit. Compliance with this limit shall ensure that NO_x emissions from boiler 10SP1 will not exceed 156.3 tons per twelve (12) consecutive month period.
- (b) The Permittee shall shut down boilers 1SP1, 2SP1, and 9SP1 prior to start-up of boiler 10SP1.

Compliance with these limits shall limit the net emissions increase of the project to less than forty (40) tons of NO_x per twelve (12) consecutive month period and shall render the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration) not applicable to 10SP1.

Federal Rule Applicability Determination

The following federal rule applicability determinations are being performed for the source due to this modification:

New Source Performance Standards (NSPS):

40 CFR 60.40, Subpart D: Standards of Performance for Fossil-Fuel-Fired Steam Generators

Boiler 10SP1 is not subject to the requirements of 40 CFR 60, Subpart D because the heat input rate of the boiler is less than 250 MMBtu/hr.

40 CFR 60.40Da, Subpart Da: Standards of Performance for Electric Utility Steam Generating Units

Boiler 10SP1 is not subject to the requirements of 40 CFR 60, Subpart Da because it does not meet the definition of an electric utility steam-generating unit per 40 CFR 60.41Da.

40 CFR 60.40b, Subpart Db: Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units

Boiler 10SP1 is subject to the requirements of 40 CFR 60, Subpart Db, which is incorporated by reference as 326 IAC 12, because it is a steam generating unit that will commence construction after June 19, 1984 and has a heat input capacity of greater than 100 MMBtu/hr. The unit is described as follows:

- One (1) B & W natural gas-fired boiler, identified as 10SP1, approved in 2015 for installation, with a maximum heat input capacity of 178.41 MMBtu/hr, using low NO_x burners and flue gas recirculation, and exhausting to stack 10SP.

The entire rule is included as Attachment E to the permit. Boiler 10SP1 is subject to the following provisions of 40 CFR 60, Subpart Db:

- (1) 40 CFR 60.40b(a), (g)
- (2) 40 CFR 60.41b
- (3) 40 CFR 60.42(k)(2)
- (4) 40 CFR 60.44b(a)(1)(ii), (h), (i)
- (5) 40 CFR 60.45b(j), (k)
- (6) 40 CFR 60.46b(a), (c), (e)

- (7) 40 CFR 60.47b(f)
- (8) 40 CFR 60.48b(b)(1), (c), (d), (e), (f), (j)(2)
- (9) 40 CFR 60.49b(a), (b), (d)(1), (g), (h), (i), (o), (r), (v), (w)

The provisions of 40 CFR 60, Subpart A – General Provisions, which are incorporated as 326 IAC 12-1, apply to boiler 10SP1 except when otherwise specified in 40 CFR 60, Subpart Db.

40 CFR 60.40c, Subpart Dc: Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units

Boiler 10SP1 is not subject to the requirements of 40 CFR 60, Subpart Dc because it has a maximum design heat input capacity of greater than 100 MMBtu/hr.

National Emission Standards for Hazardous Air Pollutants (NESHAP):

40 CFR 63.7480, Subpart DDDDD: National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters

Boiler 10SP1 is subject to the requirements of 40 CFR 63, Subpart DDDDD, which are incorporated by reference as 326 IAC 20-95, because the unit is an industrial boiler located at a major source of HAP. The unit is described as follows:

- One (1) B & W natural gas-fired boiler, identified as 10SP1, approved in 2015 for installation, with a maximum heat input capacity of 178.41 MMBtu/hr, using low NOx burners and flue gas recirculation, and exhausting to stack 10SP.

Pursuant to 40 CFR 63.7490(b), boiler 10SP1 is considered a new affected source because construction will commence after June 4, 2010. Pursuant to 40 CFR 63.7495(a), the Permittee must comply with Subpart DDDDD for boiler 10SP1 upon startup.

The entire rule is included as Attachment D to the permit. Boiler 10SP1 is subject to the following provisions of 40 CFR 63, Subpart DDDDD:

- (1) 40 CFR 63.7480
- (2) 40 CFR 63.7485
- (3) 40 CFR 63.7490(a), (b)
- (4) 40 CFR 63.7495(a), (d)
- (5) 40 CFR 63.7499(l)
- (6) 40 CFR 63.7500(a)(1), (a)(3), (b), (e), (f)
- (7) 40 CFR 63.7501
- (8) 40 CFR 63.7505(a)
- (9) 40 CFR 63.7510(g)
- (10) 40 CFR 63.7515(d), (g)
- (11) 40 CFR 63.7530(d)
- (12) 40 CFR 63.7540(a)(10), (a)(13)
- (13) 40 CFR 63.7545(a), (c), (e)(1), (e)(8)
- (14) 40 CFR 63.7550(a), (b), (c)(1), (c)(5)(i)-(iv), (c)(5)(xiv), (h)
- (15) 40 CFR 63.7555(a)
- (16) 40 CFR 63.7560
- (17) 40 CFR 63.7565
- (18) 40 CFR 63.7570
- (19) 40 CFR 63.7575
- (20) Table 3 to Subpart DDDDD of Part 63 (3)
- (21) Table 9 to Subpart DDDDD of Part 63
- (22) Table 10 to Subpart DDDDD of Part 63

The provisions of 40 CFR 63, Subpart A - General Provisions, which are incorporated as 326 IAC 20-1, apply to boiler 10SP1 except when otherwise specified in 40 CFR 63, Subpart DDDDD.

40 CFR 63.11193, Subpart JJJJJJ: National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, Institutional Boilers Area Sources

Boiler 10SP1 is not subject to the requirements of 40 CFR 63, Subpart JJJJJJ because the source is not an area source of hazardous air pollutants.

Compliance Assurance Monitoring (CAM):

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

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

Based on this evaluation, the requirements of 40 CFR Part 64, CAM are not applicable to boiler 10SP1 as part of this modification because boiler 10SP1 does not use a control device, as defined in 40 CFR 64.1. *Note: Low NOx burners are not considered a control device for purposes of CAM.*

State Rule Applicability Determination

The following state rule applicability determinations are being performed for the source due to this modification:

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

PSD is discussed under the Permit Level Determination – PSD section.

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

The operation of boiler 10SP1 will emit less than ten (10) tons per year for a single HAP and less than twenty-five (25) tons per year for a combination of HAPs. Therefore, 326 IAC 2-4.1 does not apply.

326 IAC 2-6 (Emission Reporting)

This source is subject to 326 IAC 2-6 (Emission Reporting) because it is required to have an operating permit pursuant to 326 IAC 2-7 (Part 70). The potential to emit of VOC and PM10 is greater than 250 tons per year. Therefore, pursuant to 326 IAC 2-6-3(a)(1), annual reporting is required. An emission statement shall be submitted by July 1, 2015, and every year thereafter. The emission statement shall contain, at a minimum, the information specified in 326 IAC 2-6-4.

326 IAC 2-7-6(5) (Annual Compliance Certification)

The U.S. EPA Federal Register 79 FR 54978 notice does not exempt Title V Permittees from the requirements of 40 CFR 70.6(c)(5)(iv) or 326 IAC 2-7-6(5)(D), but the submittal of the Title V annual compliance certification to IDEM satisfies the requirement to submit the Title V annual compliance certifications to EPA. IDEM does not intend to revise any permits since the requirements of 40 CFR 70.6(c)(5)(iv) or 326 IAC 2-7-6(5)(D) still apply, but Permittees can note on their Title V annual compliance certification that submission to IDEM has satisfied reporting to EPA per Federal Register 79 FR 54978. This only applies to Title V Permittees and Title V compliance certifications.

326 IAC 3-5 (Continuous Monitoring of Emissions)

Pursuant to 326 IAC 3-5-1(a)(1) and (2), 326 IAC 3-5 applies to boiler 10SP1 because it is required to perform continuous monitoring under 326 IAC 12 and it is a fossil fuel-fired steam generator of greater than 100 MMBtu/hr heat input capacity.

- (a) Pursuant to 326 IAC 3-5 and 40 CFR 60, Subpart Db, continuous emission monitoring systems for Boiler 10SP1 shall be calibrated, maintained, and operated for measuring NO_x and O₂, which meet all applicable performance specifications of 326 IAC 3-5-2.
- (b) All continuous emissions monitoring systems are subject to monitor system certification requirements pursuant to 326 IAC 3-5-3.
- (c) All continuous emissions monitoring systems should follow the standard operating procedure prepared and submitted pursuant to 326 IAC 3-5-4.
- (d) All continuous emissions monitoring systems are subject to the quality assurance requirements pursuant to 326 IAC 3-5-5.
- (e) Nothing in this permit shall excuse the Permittee from complying with the requirements to operate a continuous emission monitoring system pursuant to 326 IAC 3-5 and 40 CFR 60.
- (f) In the event that a breakdown of a NO_x or CO continuous emission monitoring system occurs, a record shall be made of the times and reasons of the breakdown and efforts made to correct the problem.
- (g) The Permittee shall comply with the requirements of 40 CFR 60, Subpart Db in the event of a CEMS breakdown, repair, calibration check, or zero (0) and span adjustment.
- (h) Pursuant to 326 IAC 3-5-6:
 - (1) The Permittee shall maintain records, including raw data, of all monitoring data and supporting information for a minimum of five (5) years from the date of any of the following:
 - (A) A monitoring sample.
 - (B) A measurement.
 - (C) A test.
 - (D) A certification.
 - (E) A report.
 - (2) The records shall include the following:
 - (A) All documentation relating to:
 - (i) Design, installation, and testing of all elements of the monitoring system.
 - (ii) Required corrective action or compliance plan activities.
 - (B) All maintenance logs, calibration checks, and other required quality assurance activities.
 - (C) All records of corrective and preventive action.
 - (D) A log of plant operations, including emission unit or monitoring system downtime with the following information:

- (i) Date of emissions unit or monitoring system downtime.
 - (ii) Time of commencement and completion of each downtime.
 - (iii) Reason for each downtime.
 - (iv) Nature of system repairs and adjustments.
- (i) Pursuant to 326 IAC 3-5-8(e)(1)(B), the Permittee shall keep records that describe the supplemental monitoring implemented during any downtime to assure compliance with the applicable emission limitations.
- (j) If a CEMS performance evaluation is required pursuant to 326 IAC 3-5-2(7), the Permittee shall submit a report containing the complete information of the performance evaluation(s) within forty-five (45) days after the test date.
- (k) The Permittee shall submit any reporting required by 326 IAC 3-4-3 within forty-five (45) days of completion of the performance specification test(s).
- (l) The Permittee shall submit any updates made to the continuous monitoring standard operating procedure required by 326 IAC 3-5-4 within two (2) years of the revisions made.
- (m) The Permittee shall submit a report for performance audits within thirty (3) calendar days after the end of each quarter for cylinder gas audits and within forty-five (45) calendar days after the completion of the test for relative accuracy test audits in accordance with 326 IAC 3-5-5. The report shall include:
- (1) Plant and monitor information, including the following:
 - (A) The plant name and address.
 - (B) The monitor brand or manufacturer's name, model, and serial number.
 - (C) The monitor span.
 - (D) The monitor location.
 - (2) Performance audit information, including the following:
 - (A) The auditor's name.
 - (B) A copy of the audit standard's certification.
 - (C) All data used to calculate the audit results.
 - (D) The audit results and an indication if the monitor passed or failed the audit. If the performance audit results show the CEMS to be out of control, the Permittee shall report both the audit results showing the CEMS to be out of control and the results of the audit following corrective action showing the CEMS to be within specification.
- (n) The Permittee shall report excess emissions no less frequently than quarterly in accordance with 326 IAC 3-5-7(b) and the report shall contain the following continuous monitoring information summaries, with all times reported in real time:
- (1) Monitored emissions unit operation time during the reporting period.

- (2) Excess emissions or parameters, as applicable, reported in units of the standard, or the applicable parameter unit as follows:
 - (A) Date of excess emissions, or other applicable dates.
 - (B) Time of commencement and completion for each applicable parameter deviation or excess emission data.
- (3) The magnitude of the excess emissions, in units of the applicable standard, must be reported based on the applicable averaging time, in addition to any other reporting requirements that may be applicable.
- (o) The Permittee shall submit a report relating to continuous monitoring system instrument downtime, except for zero (0) and span checks, no less frequently than quarterly in accordance with 326 IAC 3-5-7(c)(4) and the report shall include:
 - (1) Date of downtime.
 - (2) Time of commencement.
 - (3) Duration of each downtime.
 - (4) Reasons for each downtime.
 - (6) Nature of system repairs and adjustments.
- (p) If there are no excess emissions or monitor downtime in a reporting period, the Permittee shall submit a report indicating that no excess emissions or downtime emissions occurred in the reporting period that includes the start and end dates of the time period.

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

Pursuant to 326 IAC 6-2-1(d), particulate emissions from the combustion of fuel for indirect heating from all facilities receiving permits to construct on or after September 21, 1983, shall be limited by 326 IAC 6-2-4.

Pursuant to 326 IAC 6-2-4(a), particulate emissions from indirect heating facilities constructed after September 21, 1983 shall be limited by the following equation:

$$Pt = 1.09 / Q^{0.26}$$

Where:

- Pt = Pounds of particulate matter emitted per million Btu (lb/MMBtu) heat input.
- Q = Total source maximum operating capacity rating in million Btu per hour (MMBtu/hr) heat input. The maximum operating capacity rating is defined as the maximum capacity at which the facility is operated or the nameplate capacity, whichever is specified in the facility's permit application, except when some lower capacity is contained in the facility's operation permit; in which case, the capacity specified in the operation permit shall be used.

Emission Unit	Construction Date	Maximum Heat Input Capacity (MMBtu/hr)	Q (MMBtu/hr)	Applicable 326 IAC 6-2 Section	Allowable Emission Rate (lb/MMBtu)
1SP1	1950 (to be removed)	108	270.95	6-2-3(d)	0.8
2SP1	1963 (to be	52.75	270.95	6-2-3(d)	0.8

Emission Unit	Construction Date	Maximum Heat Input Capacity (MMBtu/hr)	Q (MMBtu/hr)	Applicable 326 IAC 6-2 Section	Allowable Emission Rate (lb/MMBtu)
	removed)				
3SP1	1968	110.2	270.95	6-2-3(d)	0.8
107EO1	1992	25.2	296.15	6-2-4(a)	0.25*
108EO1	1994	14	310.15	6-2-4(a)	0.25*
110EO1	2002	14	324.15	6-2-4(a)	0.24*
9SP1	2013 (to be removed)	99	423.15	6-2-4(a)	0.23*
10SP1	2015	178.41	341.81**	6-2-4(a)	0.24

Notes: *The Allowable emission rates for 107EO1, 108EO1, 110EO1, and 9SP1 had been incorrectly changed in Part 70 Renewal No. T001-31996-00005. The allowable emission rates are being corrected as part of this permitting action.

**Q for 10SP1 does not include the maximum heat input capacities from 1SP1, 2SP1, or 9SP1, since those units are required to be shut down prior to the startup of 10SP1.

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

Pursuant to 326 IAC 6-3-1(b)(1), sources of combustion for indirect heating are not subject to the requirements of 326 IAC 6-3.

326 IAC 7-1.1 (Sulfur Dioxide Emission Limitations)

Boiler 10SP1 is not subject to the requirements of 326 IAC 7-1.1 because the potential to emit of SO2 for the boiler is less than twenty-five (25) tons per year and less than ten (10) pounds per hour.

326 IAC 8-1-6 (General Reduction Requirements for New Facilities)

The requirements of 326 IAC 8-1-6 apply to new facilities (as of January 1, 1980) that have potential VOC emissions of twenty-five (25) tons or more per year, located anywhere in the state, and that are not otherwise regulated by 326 IAC 8, 326 IAC 20-48, or 326 IAC 20-56. Boiler 10SP1 has potential VOC emissions of less than twenty-five (25) tons per year; therefore, the boiler is not subject to the requirements of 326 IAC 8-1-6.

Compliance Determination and Monitoring Requirements

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

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

The Compliance Determination Requirements applicable to this modification are as follows:

CEMS

- (a) Pursuant to 326 IAC 3-5 (Continuous Monitoring of Emissions), a continuous emission monitoring system for boiler 10SP1 shall be calibrated, maintained, and operated for measuring NOx, which meet all applicable performance specifications of 326 IAC 3-5-2.
- (b) All continuous emissions monitoring systems are subject to monitor system certification requirements pursuant to 326 IAC 3-5-3.
- (c) Nothing in this permit shall excuse the Permittee from complying with the requirements to operate a continuous emission monitoring system pursuant to 326 IAC 3-5 and 40 CFR 60, Subpart Db.

The compliance monitoring requirements applicable to this modification are as follows:

CEMS

In the event that a breakdown of a NOx continuous emissions monitoring system (CEMS) occurs, a record shall be made of the time and reason of the breakdown and efforts made to correct the problem.

Proposed Changes

The changes listed below have been made to Part 70 Operating Permit No. T001-31996-00005. These changes may include Title I changes (e.g. changes that add or modify synthetic minor emission limits). Deleted language appears as ~~strikethroughs~~ and new language appears in **bold**:

Changes to Section A of the Permit:

- A correction was made in the introductory paragraph of Section A.
- Section A.1 of the permit was revised to indicate that the source contains a nested source as 1 of 28 source categories, within a non-listed source.
- The descriptive information for the existing boilers in Section A.2 was updated to accurately reflect the federal rule applicability for these units.
- The alternative fuels listed for boiler 3SP1 were removed as the Permittee has indicated that this boiler is only capable of burning natural gas.
- The descriptive information for the proposed boiler 10SP1 has been added to Section A.2 of the permit.

Section A of the permit has been revised as follows:

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.34 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(14)] [326 IAC 2-7-1(22)]

The Permittee owns and operates a stationary grain handling, soybean meal production, and soybean oil extraction plant.

Source Address:	1200 N. 2nd Street, Decatur, Indiana 46733
General Source Phone Number:	(260)724-2101
SIC Code:	2075, 2079, and 5153
County Location:	Adams
Source Location Status:	Attainment for all criteria pollutants
Source Status:	Part 70 Operating Permit Program Major Source, under PSD Rules Major Source, Section 112 of the Clean Air Act Nested Source with fossil fuel fired boilers totaling more than two hundred fifty million (250,000,000) British thermal units per hour heat input, as Not 1 of 28 Source Categories, within a non-listed source

A.2 Emission Units and Pollution Control Equipment Summary [326 IAC 2-7-4(c)(3)]
[326 IAC 2-7-5(14)]

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

* * *

- (x) One (1) natural gas fired hydrogen generator furnace, identified as 107EO1, constructed in 1992, with a maximum heat input capacity of 25.2 MMBtu/hr, and exhausting to stack 107EO. ~~This is an affected source under the National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers and Process Heaters Under 40 CFR 63, Subpart DDDDD, 107EO1 is considered an existing affected source.~~ **Under 40 CFR 60, Subpart Dc, 107EO1 is considered an affected facility.**

* * *

- (ss) One (1) natural gas fired steam generator, identified as 110EO1, constructed in 2002, with a maximum heat input capacity of 14 MMBtu/hr, and exhausting to stack 110EO. ~~This is an affected facility under the New Source Performance Standards for Small Industrial - Commercial - Institutional Steam Generating Units Under 40 CFR 60, Subpart Dc, 110EO1 is considered an affected facility, and an affected source under the National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers and Process Heaters Under 40 CFR 63, Subpart DDDDD, 110EO1 is considered an existing affected source.~~ **Under 40 CFR 60, Subpart Dc, 110EO1 is considered an affected facility.**

- (tt) One (1) natural gas fired steam generator #3, identified as 108EO1, constructed in 1994, with a maximum heat input capacity of 14 MMBtu/hr, and exhausting to stack 108EO. ~~This is an affected facility under the New Source Performance Standards for Small Industrial - Commercial - Institutional Steam Generating Units Under 40 CFR 60, Subpart Dc, 108EO1 is considered an affected facility, and an affected source under the National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers and Process Heaters Under 40 CFR 63, Subpart DDDDD, 108EO1 is considered an existing affected source.~~ **Under 40 CFR 60, Subpart Dc, 108EO1 is considered an affected facility.**

- (uu) One (1) B & W coal fired boiler, identified as 1SP1, constructed in 1950, with a maximum heat input capacity of 108 MMBtu/hr, using multiple cyclones and a baghouse for control of particulate and HAPs, and exhausting to stack 1SP. ~~This is an affected source under the National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers and Process Heaters Under 40 CFR 63, Subpart DDDDD, 1SP1 is considered an existing affected source and Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units 40-CFR-60, Subpart Db.~~ **Under 40 CFR 63, Subpart DDDDD, 1SP1 is considered an existing affected source.**

- (vv) One (1) Keeler coal fired boiler, identified as 2SP1, constructed in 1963, with a maximum heat input capacity of 52.75 MMBtu/hr, using multiple cyclones and a baghouse for

control of particulate and HAPs, and exhausting to stack 1SP. ~~This is an affected source under the National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers and Process Heaters~~**Under 40 CFR 63, Subpart DDDDD, 2SP1 is considered an existing affected source.**

- (ww) One (1) Murray natural gas fired, ~~vegetable oil fired, used oil fired, and hazardous chemical fired~~ boiler, identified as 3SP1, constructed in 1968, with a maximum heat input capacity of 110.2 MMBtu/hr, and exhausting to stack 1SP. ~~This is an affected source under the National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers and Process Heaters~~**Under 40 CFR 63, Subpart DDDDD, 3SP1 is considered an existing affected source.** ~~and Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units 40 CFR 60, Subpart Db.~~

* * *

- (fff) One (1) natural gas-fired boiler, identified as 9SP1, ~~approved for construction~~**constructed** in 2012~~3~~, with a maximum heat input capacity of 99 MMBtu/hr, equipped with low NOx burners and flue gas recirculation (FGR) for NOx control, and exhausting to stack 9SP. ~~This is an affected facility under the New Source Performance Standards for Small Industrial - Commercial - Institutional Steam Generating Units~~**Under 40 CFR 60, Subpart Dc, 9SP1 is considered an affected facility.** ~~and an affected source under the National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers and Process Heaters~~ **Under 40 CFR 63, Subpart DDDDD, 9SP1 is considered a new affected facility.**

* * *

- (iii) **One (1) B & W natural gas-fired boiler, identified as 10SP1, approved in 2015 for installation, with a maximum heat input capacity of 178.41 MMBtu/hr, using low NOx burners and flue gas recirculation, and exhausting to stack 10SP. Under 40 CFR 60, Subpart Db, 10SP1 is considered an affected facility. Under 40 CFR 63, Subpart DDDDD, 10SP1 is considered a new affected source.**

Changes to the B and C Sections of the Permit:

- On November 3, 2011, the Indiana Air Pollution Control Board issued a revision to 326 IAC 2. The revision resulted in a change to the rule citations of the "trivial activity", "section 502(b)(10) changes", and "regulated pollutant, which is used only for purposes of section 19 of this rule" definitions. These rule citation changes have been made in Section B - Permit Renewal, Section B.19 - Operational Flexibility, and Section C - Emission Statement.
- Condition B.24 - Advanced Source Modification Approval was removed from the permit as this condition is not applicable to the source.
- Section C - Compliance Monitoring has been revised to clearly describe when new monitoring for new and existing units must begin.
- Section C - Instrument Specifications has been revised to clarify that the analog instrument must be capable of measuring the parameters outside the normal range.
- Section C - General Record Keeping Requirements has been revised to add "where applicable" to the lists to more closely match the underlying rule.
- Section C - General Reporting Requirements has been revised to clarify the Permittee's responsibility under CAM.

Sections B and C of the permit have been revised as follows:

SECTION B GENERAL CONDITIONS

* * *

B.16 Permit Renewal [326 IAC 2-7-3] [326 IAC 2-7-4] [326 IAC 2-7-8(e)]

- (a) The application for renewal shall be submitted using the application form or forms prescribed by IDEM, OAQ and shall include the information specified in 326 IAC 2-7-4. Such information shall be included in the application for each emission unit at this source, except those emission units included on the trivial or insignificant activities list contained in 326 IAC 2-7-1(21) and 326 IAC 2-7-1(402). The renewal application does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(35).

* * *

* * *

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

- (a) * * *
- (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(367)) 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:

* * *

* * *

~~B.24 Advanced Source Modification Approval [326 IAC 2-7-5(16)] [326 IAC 2-7-10.5]~~

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

B.245 Credible Evidence [326 IAC 2-7-5(3)] [326 IAC 2-7-6] [62 FR 8314] [326 IAC 1-1-6]

* * *

SECTION C SOURCE OPERATION CONDITIONS

Entire Source

* * *

C.10 Compliance Monitoring [326 IAC 2-7-5(3)] [326 IAC 2-7-6(1)][40 CFR 64][326 IAC 3-8]

- (a) **For new units:**
- Unless otherwise specified in the approval for the new emission unit(s), compliance monitoring for new emission units shall be implemented on and after the date of initial startup.**
- (b) **For existing units:**

Unless otherwise specified in this permit, for all monitoring requirements not already legally required, the Permittee shall be allowed up to ninety (90) days from the date of permit issuance ~~or of initial start-up, whichever is later~~, to begin such monitoring. If due to circumstances beyond the Permittee's control, any monitoring equipment required by this permit cannot be installed and operated no later than ninety (90) days after permit issuance ~~or the date of initial startup, whichever is later~~, the Permittee may extend the compliance schedule related to the equipment for an additional ninety (90) days provided the Permittee notifies:

* * *

~~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.~~

(bc) * * *
(ed) * * *

C.11 Instrument Specifications [326 IAC 2-1.1-11] [326 IAC 2-7-5(3)] [326 IAC 2-7-6(1)]

(a) When required by any condition of this permit, an analog instrument used to measure a parameter related to the operation of an air pollution control device shall have a scale such that the expected maximum reading for the normal range shall be no less than twenty percent (20%) of full scale. **The analog instrument shall be capable of measuring values outside of the normal range.**

(b) * * *

* * *

C.16 Emission Statement [326 IAC 2-7-5(3)(C)(iii)] [326 IAC 2-7-5(7)] [326 IAC 2-7-19(c)] [326 IAC 2-6]

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

- (1) Indicate estimated actual emissions of all pollutants listed in 326 IAC 2-6-4(a);
- (2) Indicate estimated actual emissions of regulated pollutants as defined by 326 IAC 2-7-1(323) ("Regulated pollutant, which is used only for purposes of Section 19 of this rule") from the source, for purpose of fee assessment.

* * *

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

(a) Records of all required monitoring data, reports and support information required by this permit shall be retained for a period of at least five (5) years from the date of monitoring sample, measurement, report, or application. Support information includes the following, **where applicable**:

- (AA) All calibration and maintenance records.
- (BB) All original strip chart recordings for continuous monitoring instrumentation.
- (CC) Copies of all reports required by the Part 70 permit.

Records of required monitoring information include the following, **where applicable**:

* * *

C.18 General Reporting Requirements [326 IAC 2-7-5(3)(C)] [326 IAC 2-1.1-11] [326 IAC 2-2] **[326 IAC 2-3]**[40 CFR 64][326 IAC 3-8]

- (a) The Permittee shall submit the attached Quarterly Deviation and Compliance Monitoring Report or its equivalent. Proper notice submittal under Section B –Emergency Provisions satisfies the reporting requirements of this paragraph. Any deviation from permit requirements, the date(s) of each deviation, the cause of the deviation, and the response steps taken must be reported except that a deviation required to be reported pursuant to an applicable requirement that exists independent of this permit, shall be reported according to the schedule stated in the applicable requirement and does not need to be included in this report. This report shall be submitted not later than thirty (30) days after the end of the reporting period. The Quarterly Deviation and Compliance Monitoring Report shall include a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(35). A deviation is an exceedance of a permit limitation or a failure to comply with a requirement of the permit.

On and after the date by which the Permittee must use monitoring that meets the requirements of 40 CFR Part 64 and 326 IAC 3-8, the Permittee shall submit CAM reports to the IDEM, OAQ.

A report for monitoring under 40 CFR Part 64 and 326 IAC 3-8 shall include, at a minimum, the information required under paragraph (a) of this condition and the following information, as applicable:

- (1) Summary information on the number, duration and cause (including unknown cause, if applicable) of excursions or exceedances, as applicable, and the corrective actions taken;**
- (2) Summary information on the number, duration and cause (including unknown cause, if applicable) for monitor downtime incidents (other than downtime associated with zero and span or other daily calibration checks, if applicable); and**
- (3) A description of the actions taken to implement a QIP during the reporting period as specified in Section C-Response to Excursions or Exceedances. Upon completion of a QIP, the owner or operator shall include in the next summary report documentation that the implementation of the plan has been completed and reduced the likelihood of similar levels of excursions or exceedances occurring.**

The Permittee may combine the Quarterly Deviation and Compliance Monitoring Report and a report pursuant to 40 CFR 64 and 326 IAC 3-8.

* * *

* * *

Changes to Section D.3 of the Permit:

- The descriptive information for the existing boilers in Section D.3 was updated to accurately reflect the federal rule applicability for these units and to match the changes made in Section A.3.
- The alternative fuels listed for boiler 3SP1 were removed as the Permittee has indicated that this boiler is only capable of burning natural gas.
- The descriptive information for the proposed boiler 10SP1 has been added to Section D.3 of the permit.

- Condition D.3.1 has been revised to correct several 326 IAC 6-2 emission limits and to add the applicable 326 IAC 6-2 emission limit for boiler 10SP1. The equation for determining the limits was removed as this is described in the Technical Support Document.
- A new Condition D.3.4 has been added to include the NSPS NOx limit for boiler 10SP1. This limit in combination with the requirement to remove boilers 1SP1, 2SP1, and 9SP1 prior to start-up of boiler 10SP1 shall limit the net emissions increase of NOx to less than the PSD significant level.
- A new Condition D.3.7 has been added to incorporate the requirements of 326 IAC 3-5.
- A new Condition D.3.12 has been added to indicate the requirements for when the NOx CEMS is down.
- Record keeping and reporting requirements were included for the boiler 10SP1 NOx limit and as required under 326 IAC 3-5.

Section D.3 of the permit has been revised as follows:

SECTION D.3 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description: Boilers and Heaters

(x) One (1) natural gas fired hydrogen generator furnace, identified as 107EO1, constructed in 1992, with a maximum heat input capacity of 25.2 MMBtu/hr, and exhausting to stack 107EO. ~~This is an affected source under the National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers and Process Heaters~~ **Under 40 CFR 60, Subpart Dc, 107EO1 is considered an affected facility.** ~~This is an affected source under the National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers and Process Heaters~~ **Under 40 CFR 63, Subpart DDDDD, 107EO1 is considered an existing affected source.**

(ss) One (1) natural gas fired steam generator, identified as 110EO1, constructed in 2002, with a maximum heat input capacity of 14 MMBtu/hr, and exhausting to stack 110EO. ~~This is an affected facility under the New Source Performance Standards for Small Industrial, Commercial, and Institutional Steam Generating Units~~ **Under 40 CFR 60, Subpart Dc, 110EO1 is considered an affected facility.** ~~and an affected source under the National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers and Process Heaters~~ **Under 40 CFR 63, Subpart DDDDD, 110EO1 is considered an existing affected source.**

(tt) One (1) natural gas fired steam generator #3, identified as 108EO1, constructed in 1994, with a maximum heat input capacity of 14 MMBtu/hr, and exhausting to stack 108EO. ~~This is an affected facility under the New Source Performance Standards for Small Industrial, Commercial, and Institutional Steam Generating Units~~ **Under 40 CFR 60, Subpart Dc, 108EO1 is considered an affected facility.** ~~and an affected source under the National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers and Process Heaters~~ **Under 40 CFR 63, Subpart DDDDD, 108EO1 is considered and existing affected source.**

(uu) One (1) B & W coal fired boiler, identified as 1SP1, constructed in 1950, with a maximum heat input capacity of 108 MMBtu/hr, using multiple cyclones and a baghouse for control of particulate and HAPs, and exhausting to stack 1SP. ~~This is an affected source under the National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers and Process Heaters~~ **Under 40 CFR 63, Subpart DDDDD, 1SP1 is considered an existing affected source.** ~~and Standards of Performance for Industrial, Commercial, and Institutional Steam Generating Units~~ **40 CFR 60, Subpart Dc.**

(vv) One (1) Keeler coal fired boiler, identified as 2SP1, constructed in 1963, with a maximum heat

input capacity of 52.75 MMBtu/hr, using multiple cyclones and a baghouse for control of particulate and HAPs, and exhausting to stack 1SP. ~~This is an affected source under the National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers and Process Heaters~~**Under 40 CFR 63, Subpart DDDDD, 2SP1 is considered an existing affected source.**

(ww) ~~One (1) Murray natural gas fired, vegetable oil-fired, used oil-fired, and hazardous chemical fired boiler, identified as 3SP1, constructed in 1968, with a maximum heat input capacity of 110.2 MMBtu/hr, and exhausting to stack 1SP. This is an affected source under the National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers and Process Heaters~~**Under 40 CFR 63, Subpart DDDDD, 3SP1 is considered an existing affected source.** ~~and Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units 40 CFR 60, Subpart Db.~~

(fff) ~~One (1) natural gas-fired boiler, identified as 9SP1, approved for construction~~**constructed in 2012~~3~~**, with a maximum heat input capacity of 99 MMBtu/hr, equipped with low NOx burners and flue gas recirculation (FGR) for NOx control, and exhausting to stack 9SP. ~~This is an affected facility under the New Source Performance Standards for Small Industrial-Commercial-Institutional Steam Generating Units~~**Under 40 CFR 60, Subpart Dc, 9SP1 is considered an affected facility.** ~~and an affected source under the National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers and Process Heaters~~ **Under 40 CFR 63, Subpart DDDDD, 9SP1 is considered a new affected source.**

(iii) **One (1) B & W natural gas-fired boiler, identified as 10SP1, approved in 2015 for installation, with a maximum heat input capacity of 178.41 MMBtu/hr, using low NOx burners and flue gas recirculation, and exhausting to stack 10SP. Under 40 CFR 60, Subpart Db, 10SP1 is considered an affected facility. Under 40 CFR 63, Subpart DDDDD, 10SP1 is considered a new affected source.**

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

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

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

- (a) * * *
- (b) Pursuant to 326 IAC 6-2-4 (Particulate Emission Limitations for Source of Indirect Heating), the particulate matter (PM) emissions from the boiler identified as 107EO1 shall be limited to ~~0.250-263~~ pounds per MMBtu of heat input.
- (c) Pursuant to 326 IAC 6-2-4 (Particulate Emission Limitations for Source of Indirect Heating), the particulate matter (PM) emissions from the boiler identified as 108EO1 shall be limited to less than ~~0.250-260~~ pounds per MMBtu of heat input.
- (d) Pursuant to 326 IAC 6-2-4 (Particulate Emission Limitations for Source of Indirect Heating), the particulate matter (PM) emissions from the boiler identified as 110EO1 shall be limited to ~~0.240-257~~ pounds per MMBtu of heat input.
- (e) Pursuant to 326 IAC 6-2-4 (Particulate Emission Limitations for Source of Indirect Heating), the particulate matter (PM) emissions from the boiler identified as 9SP1 shall be limited to ~~0.230-24~~ pounds per MMBtu of heat input.
- (f) **Pursuant to 326 IAC 6-2-4 (Particulate Emission Limitations for Sources of Indirect Heating), the particulate matter (PM) emissions from the boiler identified as 10SP1 shall be limited to 0.24 pounds per MMBtu of heat input.**

The emission limits for boilers 107EO1, 108EO1, 110EO1, and 9SP1 were calculated by the following equation:

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

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

* * *

D.3.4 NOx Emissions [326 IAC 2-2]

- (a) NOx emissions from boiler 10SP1 shall not exceed the NOx emission limit in 40 CFR 60.44b(a)(1)(ii), Subpart Db (0.2 lb/MMBtu), as listed in Condition E.5.2(4). Compliance with this limit shall ensure that NOx emissions from boiler 10SP1 will not exceed 156.3 tons per twelve (12) consecutive month period.
- (b) The Permittee shall shut down boilers 1SP1, 2SP1, and 9SP1 prior to start-up of boiler 10SP1.

Compliance with these limits shall limit the net emissions increase of the project to less than forty (40) tons of NOx per twelve (12) consecutive month period and shall render the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration) not applicable to 10SP1.

D.3.54 Preventive Maintenance Plan [326 IAC 2-7-5(12)]

* * *

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

D.3.65 Sulfur Dioxide Emissions and Sulfur Content [326 IAC 2-7-5(3)(A)] [326 IAC 2-7-6]

* * *

D.3.7 Continuous Emissions Monitoring [326 IAC 3-5] [326 IAC 2-7-6(1),(6)] [40 CFR 60, Subpart Db]

- (a) Pursuant to 326 IAC 3-5 (Continuous Monitoring of Emissions), a continuous emission monitoring system for boiler 10SP1 shall be calibrated, maintained, and operated for measuring NOx, which meet all applicable performance specifications of 326 IAC 3-5-2.
- (b) All continuous emissions monitoring systems are subject to monitor system certification requirements pursuant to 326 IAC 3-5-3.
- (c) Nothing in this permit shall excuse the Permittee from complying with the requirements to operate a continuous emission monitoring system pursuant to 326 IAC 3-5 40 CFR 60, Subpart Db.

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

D.3.86 Visible Emissions Notations

* * *

D.3.79 Parametric Monitoring

* * *

D.3.108 Broken or Failed Bag Detection

* * *

D.3.911 Cyclone Failure Detection

* * *

D.3.12 NOx Continuous Emissions Monitoring (CEMS) Equipment Downtime

In the event that a breakdown of a NOx continuous emissions monitoring system (CEMS) occurs, a record shall be made of the time and reason of the breakdown and efforts made to correct the problem.

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

D.3.1340 Record Keeping Requirements

(a) To document the compliance status with Conditions D.3.21 and D.3.43, the Permittee shall maintain records in accordance with (1) through (5) below. Records maintained for (1) through (5) shall be taken monthly and shall be complete and sufficient to establish compliance with the PM and SO₂ emission limits established in Conditions D.3.21 and D.3.43.

* * *

(b) **To document the compliance status with Condition D.3.4, the Permittee shall maintain records in accordance with 40 CFR 60.49b(g), as listed in Condition E.5.2(9).**

(c) To document the compliance status with Condition D.3.68, the Permittee shall maintain a daily record of visible emission notations of the boiler's stack exhaust (SP1). The Permittee shall include in its daily record when a visible emission notation is not taken and the reason for the lack of visible emission notation (e.g. the process did not operate that day).

(ed) To document the compliance status with Condition D.3.79, the Permittee shall maintain a daily record of the pressure drop across the baghouses controlling the boilers. The Permittee shall include in its daily record when a pressure drop reading is not taken and the reason for the lack of a pressure drop reading (e.g. the process did not operate that day).

(de) * * *

D.3.14 Record Keeping Requirements for CEMS [326 IAC 2-7-5(3)(A)(iii)] [326 IAC 3-5]

(a) **The Permittee shall record the output of the continuous monitoring system and shall perform the required record keeping pursuant to 326 IAC 3-5-6 and 326 IAC 3-5-7.**

(b) **In the event that a breakdown of the NOx continuous emission monitoring system (CEMS) occurs, the Permittee shall maintain records of all CEMS malfunctions, out of control periods, calibration and adjustment activities, and repair or maintenance activities.**

(c) **Section C - General Record Keeping Requirements contains the Permittee's obligation with regard to the records required by this condition.**

D.3.1514 Reporting Requirements

- (a) A quarterly summary of the information to document the compliance status with Conditions D.3.21(a) and D.3.43 for boilers 1SP and 2SP1 shall be submitted not later than thirty (30) days after the end of the quarter being reported. Section C - General Reporting contains the Permittee's obligation with regard to the reporting required by this condition. The report submitted by the Permittee does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(35).
- (b) Pursuant to 40 CFR 60.49b(w), as listed in Condition E.5.2(9), and in order to document the compliance status with Condition D.3.4 for boiler 10SP1, reports specified in 40 CFR 60.49b(h) and (i), as listed in Condition E.5.2(9), shall be submitted for each six (6) month period and shall be postmarked by the 30th day following the end of the reporting period. Section C - General Reporting contains the Permittee's obligation with regard to the reporting required by this condition. The report submitted by the Permittee does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(35).

D.3.16 Reporting Requirements for CEMS [326 IAC 2-7-5(3)(A)(iii)] [326 IAC 3-5]

- (a) The Permittee shall prepare and submit to IDEM, OAQ a written report of the results of the calibration gas audits and relative accuracy test audits for each calendar quarter within thirty (30) calendar days after the end of each quarter. The report must contain the information required by 326 IAC 3-5-5(e)(2). The report submitted by the Permittee does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official," as defined by 326 IAC 2-7-1 (35).
- (b) Pursuant to 326 IAC 3-5-7(5), reporting of continuous monitoring system instrument downtime, except for zero (0) and span checks, which shall be reported separately, shall include the following:
- (1) date of downtime;
 - (2) time of commencement;
 - (3) duration of each downtime;
 - (4) reasons for each downtime; and
 - (5) nature of system repairs and adjustments.

The report submitted by the Permittee does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official," as defined by 326 IAC 2-7-1 (35).

Consent Decree

D.3.127 Consent Decree Limits, Compliance, and Record Keeping Requirements

* * *

Changes to the E Sections of the Permit:

- The descriptive language for the boilers has been revised in Sections E.2 and E.4 to be consistent with the changes made in Section A.2.
- Condition E.4.2 was revised to specify the applicable provisions for each type of boiler at the source.

- Section E.5 was revised to remove the descriptive information for boilers 1SP1 and 3SP1. These units were inadvertently included in this section. However, they are not subject to 40 CFR 60, Subpart Db because they were constructed before the applicability date of the rule and have not been modified or reconstructed.
- Boiler 10SP1 was added to Section E.5 of the permit and the applicable provisions were listed in Condition E.5.2.

The E Sections of the permit have been revised as follows:

SECTION E.1 Standards of Performance for Grain Elevators [40 CFR 60, Subpart DD] [326 IAC 12]

Facility Description: ~~{326 IAC 2-7-5(14)}~~

* * *

* * * * *

SECTION E.2 New Source Performance Standards (NSPS) For Small Industrial- Commercial-Institutional Steam Generating Units [40 CFR 60, Subpart Dc] [326 IAC 12]

Facility Description: ~~{326 IAC 2-7-5(14)}~~

- (x) One (1) natural gas fired hydrogen generator furnace, identified as 107EO1, constructed in 1992, with a maximum heat input capacity of 25.2 MMBtu/hr, and exhausting to stack 107EO. **Under 40 CFR 60, Subpart Dc, 107EO1 is considered an affected facility.** ~~This is an affected source under the National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers and Process Heaters~~ **Under 40 CFR 63, Subpart DDDDD, 107EO1 is considered an existing affected source.**
- (ss) One (1) natural gas fired steam generator, identified as 110EO1, constructed in 2002, with a maximum heat input capacity of 14 MMBtu/hr, and exhausting to stack 110EO. ~~This is an affected facility under the New Source Performance Standards for Small Industrial- Commercial- Institutional Steam Generating Units~~ **Under 40 CFR 60, Subpart Dc, 110EO1 is considered an affected facility.** ~~and an affected source under the National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers and Process Heaters~~ **Under 40 CFR 63, Subpart DDDDD, 110EO1 is considered an existing affected source.**
- (tt) One (1) natural gas fired steam generator #3, identified as 108EO1, constructed in 1994, with a maximum heat input capacity of 14 MMBtu/hr, and exhausting to stack 108EO. ~~This is an affected facility under the New Source Performance Standards for Small Industrial- Commercial- Institutional Steam Generating Units~~ **Under 40 CFR 60, Subpart Dc, 108EO1 is considered an affected facility.** ~~and an affected source under the National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers and Process Heaters~~ **Under 40 CFR 63, Subpart DDDDD, 108EO1 is considered an existing affected source.**
- (fff) One (1) natural gas-fired boiler, identified as 9SP1, ~~approved for construction~~ **constructed** in 2012~~3~~, with a maximum heat input capacity of 99 MMBtu/hr, equipped with low NOx burners and flue gas recirculation (FGR) for NOx control, and exhausting to stack 9SP. ~~This is an affected facility under the New Source Performance Standards for Small Industrial- Commercial- Institutional Steam Generating Units~~ **Under 40 CFR 60, Subpart Dc, 9SP1 is considered an affected facility.** ~~and an affected source under the National Emission~~

~~Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers and Process Heaters~~ **Under 40 CFR 63, Subpart DDDDD, 9SP1 is considered a new affected source.**

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

* * * * *

SECTION E.3 National Emission Standards for Hazardous Air Pollutants: Solvent Extraction for Vegetable Oil Production [40 CFR 63, Subpart GGGG] [326 IAC 20-60]

Facility Description: ~~{326 IAC 2-7-5(14)}~~

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SECTION E.4 National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers and Process Heaters [40 CFR 63, Subpart DDDDD] [326 IAC 20-95]

Facility Description: ~~{326 IAC 2-7-5(14)}~~

- (x) One (1) natural gas fired hydrogen generator furnace, identified as 107EO1, constructed in 1992, with a maximum heat input capacity of 25.2 MMBtu/hr, and exhausting to stack 107EO. ~~This is an affected source under the National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers and Process Heaters~~ **Under 40 CFR 60, Subpart Dc, 107EO1 is considered an affected facility. Under 40 CFR 63, Subpart DDDDD, 107EO1 is considered an existing affected source.**
- (ss) One (1) natural gas fired steam generator, identified as 110EO1, constructed in 2002, with a maximum heat input capacity of 14 MMBtu/hr, and exhausting to stack 110EO. ~~This is an affected facility under the New Source Performance Standards for Small Industrial - Commercial - Institutional Steam Generating Units~~ **Under 40 CFR 60, Subpart Dc, 110EO1 is considered an affected facility. and an affected source under the National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers and Process Heaters** **Under 40 CFR 63, Subpart DDDDD, 110EO1 is considered an existing affected source.**
- (tt) One (1) natural gas fired steam generator #3, identified as 108EO1, constructed in 1994, with a maximum heat input capacity of 14 MMBtu/hr, and exhausting to stack 108EO. ~~This is an affected facility under the New Source Performance Standards for Small Industrial - Commercial - Institutional Steam Generating Units~~ **Under 40 CFR 60, Subpart Dc, 108EO1 is considered an affected facility. and an affected source under the National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers and Process Heaters** **Under 40 CFR 63, Subpart DDDDD, 108EO1 is considered an existing affected source.**
- (uu) One (1) B & W coal fired boiler, identified as 1SP1, constructed in 1950, with a maximum heat input capacity of 108 MMBtu/hr, using multiple cyclones and a baghouse for control of particulate and HAPs, and exhausting to stack 1SP. ~~This is an affected source under the National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers and Process Heaters~~ **Under 40 CFR 63, Subpart DDDDD, 1SP1 is considered an existing affected source.**
- (vv) One (1) Keeler coal fired boiler, identified as 2SP1, constructed in 1963, with a maximum heat input capacity of 52.75 MMBtu/hr, using multiple cyclones and a baghouse for control of

particulate and HAPs, and exhausting to stack 1SP. ~~This is an affected source under the National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers and Process Heaters Under 40 CFR 63, Subpart DDDDD, 2SP1 is considered and existing affected source.~~ and Standards of Performance for ~~Industrial-Commercial-Institutional Steam Generating Units 40 CFR 60, Subpart Db.~~

(ww) One (1) Murray natural gas fired, ~~vegetable oil-fired, used oil-fired, and hazardous chemical fired boiler, identified as 3SP1, constructed in 1968, with a maximum heat input capacity of 110.2 MMBtu/hr, and exhausting to stack 1SP. This is an affected source under the National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers and Process Heaters Under 40 CFR 63, Subpart DDDDD, 3SP1 is considered an existing affected source.~~ and Standards of Performance for ~~Industrial-Commercial-Institutional Steam Generating Units 40 CFR 60, Subpart Db.~~

(fff) One (1) natural gas-fired boiler, identified as 9SP1, ~~approved for construction~~**constructed in 2012**~~3~~, with a maximum heat input capacity of 99 MMBtu/hr, equipped with low NOx burners and flue gas recirculation (FGR) for NOx control, and exhausting to stack 9SP. ~~This is an affected facility under the New Source Performance Standards for Small Industrial-Commercial-Institutional Steam Generating Units Under 40 CFR 60, Subpart Dc, 9SP1 is considered an affected facility.~~ and an affected source under the National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers and Process Heaters **Under 40 CFR 63, Subpart DDDDD, 9SP1 is considered a new affected source.**

(iii) **One (1) B & W natural gas-fired boiler, identified as 10SP1, approved in 2015 for installation, with a maximum heat input capacity of 178.41 MMBtu/hr, using low NOx burners and flue gas recirculation, and exhausting to stack 10SP. Under 40 CFR 60, Subpart Db, 10SP1 is considered an affected facility. Under 40 CFR 63, Subpart DDDDD, 10SP1 is considered a new affected source.**

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

National Emission Standards for Hazardous Air Pollutants (NESHAP) [40 CFR 60]

E.4.1 General Provisions Relating to NESHAP DDDDD [326 IAC 20-1] [40 CFR Part 63, Subpart A]

* * *

E.4.2 National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers and Process Heaters [326 IAC 20-95] [40 CFR Part 63, Subpart DDDDD]

The Permittee shall comply with the following provisions of 40 CFR 63, Subpart DDDDD, which are incorporated by reference as 326 IAC 20-95 (included as Attachment D of this permit), ~~which are incorporated by reference as 326 IAC 20-95:~~

(a) **For units 107EO1, 110EO1, 108EO1, and 3SP1 (existing affected units designed to burn gas 1 fuels):**

- (1) 40 CFR 63.7480
- (2) 40 CFR 63.7485
- (3) 40 CFR 63.7490(a), (d)
- (4) 40 CFR 63.7495(b), (d)
- (5) 40 CFR 63.7499(l)
- (6) 40 CFR 63.7500(a)(1), (a)(3), (b), (e), (f)
- (7) 40 CFR 63.7501
- (8) 40 CFR 63.7505(a)
- (9) 40 CFR 63.7510(e)
- (10) 40 CFR 63.7515(d), (g)
- (11) 40 CFR 63.7530(d), (e)

- (12) 40 CFR 63.7540(a)(10), (a)(13)
- (13) 40 CFR 63.7545(a), (b), (e)(1), (e)(8)
- (14) 40 CFR 63.7550(a), (b), (c)(1), (c)(5)(i)-(iv), (c)(5)(xiv), (h)
- (15) 40 CFR 63.7555(a)
- (16) 40 CFR 63.7560
- (17) 40 CFR 63.7565
- (18) 40 CFR 63.7570
- (19) 40 CFR 63.7575
- (20) Table 3 to Subpart DDDDD of Part 63 (3) and (4)
- (21) Table 9 to Subpart DDDDD of Part 63
- (22) Table 10 to Subpart DDDDD of Part 63

(b) For units 1SP1 and 2SP1 (existing affected stokers designed to burn coal/solid fossil fuel):

- (1) 40 CFR 63.7480
- (2) 40 CFR 63.7485
- (3) 40 CFR 63.7490(a), (d)
- (4) 40 CFR 63.7495(a), (b), and (d)
- (5) 40 CFR 63.7499(b), (r)
- (6) 40 CFR 63.7500(a), (b), (f)
- (7) 40 CFR 63.7501**
- ~~(8) 40 CFR 63.7505~~
- ~~(8) 40 CFR 63.7506(b)~~
- ~~(9) 40 CFR 63.7507~~
- ~~(9) 40 CFR 63.7510(a), (b), (c), (d), (e), (j) and (g)~~
- (110) 40 CFR 63.7515
- ~~(112) 40 CFR 63.7520(a), (b), (d), (e), (f), and (g)~~
- (123) 40 CFR 63.7521(a), (b), (c), (d), (e)
- (134) 40 CFR 63.7522
- ~~(145) 40 CFR 63.7525~~
- (156) 40 CFR 63.7530(a), (b), (c), (d), and (e), (f), (h)
- ~~(167) 40 CFR 63.7535~~
- ~~(178) 40 CFR 63.7540~~
- ~~(189) 40 CFR 63.7541~~
- (1920) 40 CFR 63.7545(a), (b), (c), (d), (e)(1-7), and (e)(9)
- ~~(204) 40 CFR 63.7550~~
- (212) 40 CFR 63.7555
- ~~(223) 40 CFR 63.7560~~
- (234) 40 CFR 63.7565
- ~~(245) 40 CFR 63.7570~~
- ~~(256) 40 CFR 63.7575~~
- ~~(27) Table 1 to 40 CFR 63~~
- (268) Table 2 to Subpart DDDDD of Part 40 CFR 63 (1), (2), (4)
- (279) Table 3 to Subpart DDDDD or Part 40 CFR 63 (3), (4), (5), (6)
- ~~(2830) Table 4 to Subpart DDDDD of Part 40 CFR 63 (3), (7), (8), (9)~~
- ~~(2931) Table 5 to Subpart DDDDD of Part 40 CFR 63~~
- ~~(302) Table 6 to Subpart DDDDD of Part 40 CFR 63~~
- ~~(313) Table 7 to Subpart DDDDD of Part 40 CFR 63 (5)~~
- (324) Table 8 to Subpart DDDDD of Part 40 CFR 63
- (335) Table 9 to Subpart DDDDD of Part 40 CFR 63
- (346) Table 10 to Subpart DDDDD of Part 40 CFR 63
- ~~(37) Appendix A to 40 CFR 63~~

(c) For units 9SP1 and 10SP1 (new affected units designed to burn gas 1 fuels):

- (1) 40 CFR 63.7480
- (2) 40 CFR 63.7485
- (3) 40 CFR 63.7490(a), (b)

- (4) 40 CFR 63.7495(a), (d)
- (5) 40 CFR 63.7499(l)
- (6) 40 CFR 63.7500(a)(1), (a)(3), (b), (e), (f)
- (7) 40 CFR 63.7501
- (8) 40 CFR 63.7505(a)
- (9) 40 CFR 63.7510(g)
- (10) 40 CFR 63.7515(d), (g)
- (11) 40 CFR 63.7530(d)
- (12) 40 CFR 63.7540(a)(10), (a)(13)
- (13) 40 CFR 63.7545(a), (c), (e)(1), (e)(8)
- (14) 40 CFR 63.7550(a), (b), (c)(1), (c)(5)(i)-(iv), (c)(5)(xiv), (h)
- (15) 40 CFR 63.7555(a)
- (16) 40 CFR 63.7560
- (17) 40 CFR 63.7565
- (18) 40 CFR 63.7570
- (19) 40 CFR 63.7575
- (20) Table 3 to Subpart DDDDD of Part 63 (3)
- (21) Table 9 to Subpart DDDDD of Part 63
- (22) Table 10 to Subpart DDDDD of Part 63

E.4.3 Testing Requirements [326 IAC 2-7-6(1),(6)] [326 IAC 2-1.1-11]

* * *

SECTION E.5 New Source Performance Standards (NSPS) for Industrial-Commercial-Institutional Steam Generating Units [40 CFR 60, Subpart Db]

Facility Description: [326 IAC 2-7-5(14)]

- ~~(uu) One (1) B & W coal fired boiler, identified as 1SP1, constructed in 1950, with a maximum heat input capacity of 108 MMBtu/hr, using multiple cyclones and a baghouse for control of particulate and HAPs, and exhausting to stack 1SP. This is an affected source under the National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers and Process Heaters 40 CFR 63, Subpart DDDDD and Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units 40 CFR 60, Subpart Db.~~
- ~~(ww) One (1) Murray natural gas fired, vegetable oil-fired, used oil-fired, and hazardous chemical fired boiler, identified as 3SP1, constructed in 1968, with a maximum heat input capacity of 110.2 MMBtu/hr, and exhausting to stack 1SP. This is an affected source under the National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers and Process Heaters 40 CFR 63, Subpart DDDDD and Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units 40 CFR 60, Subpart Db.~~
- (iii) One (1) B & W natural gas-fired boiler, identified as 10SP1, approved in 2015 for installation, with a maximum heat input capacity of 178.41 MMBtu/hr, using low NOx burners and flue gas recirculation, and exhausting to stack 10SP. Under 40 CFR 60, Subpart Db, 10SP1 is considered an affected facility. Under 40 CFR 63, Subpart DDDDD, 10SP1 is considered a new affected source.**

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

New Source Performance Standards (NSPS) [40 CFR 60]

E.5.1 General Provisions Relating to New Source Performance Standards [326 IAC 12-1] [40 CFR 60, Subpart A]

E.5.2 Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units [40 CFR 60, Subpart Db] [326 IAC 12]

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

- (1) 40 CFR 60.40b (a), (g)
- (2) 40 CFR 60.41b
- (3) 40 CFR 60.42b ~~(a), (e), (g), (k)(2)~~
- ~~(4) 40 CFR 60.43b (a), (e), (g)~~
- ~~(54)~~ 40 CFR 60.44b (a)(**1**)(**ii**), (h), (i)
- ~~(56)~~ 40 CFR 60.45b ~~(a), (b), (c), (c)(1), (c)(2), (f), (g), (h), (i), (j), (k)~~
- ~~(67)~~ 40 CFR 60.46b (a), ~~(b), (c), (d), (e), (e)(1), (e)(2), (e)(3), (e)(4), (f), (g), (j)~~
- ~~(78)~~ 40 CFR 60.47b ~~(f)(b), (e)~~
- ~~(89)~~ 40 CFR 60.48b ~~(a), (b)(1), (c), (d), (e), (f), (i), (j), (j)(2), (t)~~
- ~~(109)~~ 40 CFR 60.49b (a), (b), (d)(**1**), ~~(f), (g), (i), (j), (k), (m), (n), (o), (r), (p), (v), (w)~~

SECTION E.6 New Standards of Performance (NSPS) for Stationary Compression Ignition Internal Combustion Engines [40 CFR 60, Subpart IIII]

Facility Description: ~~{326 IAC 2-7-5(14)}~~

* * * * *

SECTION E.7 National Emission Standards for Hazardous Air Pollutants: Stationary Reciprocating Internal Combustion Engines [40 CFR 63, Subpart ZZZZ] [326 IAC 20-63]

Facility Description: ~~{326 IAC 2-7-5(14)}~~

* * * * *

Changes to the forms of the Permit:

- "COMPLIANCE AND ENFORCEMENT BRANCH" is being added to the certification form.

The form has been revised as follows:

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

PART 70 OPERATING PERMIT
CERTIFICATION

Source Name: Bunge North America (East), LLC
Source Address: 1200 North 2nd Street, Decatur, Indiana 46733
Part 70 Permit No.: T001-31996-00005

* * *

Conclusion and Recommendation

The construction and operation of this proposed modification shall be subject to the conditions of the attached proposed Part 70 Significant Source Modification No. 001-35187-00005 and Significant Permit Modification No. 001-35195-00005. The staff recommend to the Commissioner that this Part 70 Significant Source Modification and Significant Permit Modification be approved.

IDEM Contact

- (a) Questions regarding this proposed permit can be directed to Laura Spriggs Thompson at the Indiana Department Environmental Management, Office of Air Quality, Permits Branch, 100 North Senate Avenue, MC 61-53 IGCN 1003, Indianapolis, Indiana 46204-2251 or by telephone at (317) 233-5693 or toll free at 1-800-451-6027 extension 3-5693.
- (b) A copy of the findings is available on the Internet at: <http://www.in.gov/ai/appfiles/idem-caats/>
- (c) For additional information about air permits and how the public and interested parties can participate, refer to the IDEM Permit Guide on the Internet at: <http://www.in.gov/idem/5881.htm>; and the Citizens' Guide to IDEM on the Internet at: <http://www.in.gov/idem/6900.htm>.

**Appendix A: Emission Calculations
Modification Summary**

Company Name: Bunge North America (East), LLC
 Location: 1200 N. 2nd Street, Decatur, Indiana 46733
 SSM No.: 001-35187-00005
 SPM No.: 001-35195-00005
 Permit Reviewer: Laura Spriggs Thompson

Part 70 Permit Level Determination for 10SP1

Unit	Potential to Emit (ton/yr)									
	PM	PM10	PM2.5	SO2	NOx	VOC	CO	Total HAPs	Single HAP	Worst HAP
NG Boiler 10SP1	1.46	5.82	5.82	0.46	156.29	4.21	64.35	1.45	1.38	Hexane

PSD Permit Level Determination for 10SP1

Step 1: Emissions Increase

Unit	Emissions Increase (ton/yr)						
	PM	PM10	PM2.5	SO2	NOx	VOC	CO
<i>Emissions Increase for New Units:</i>							
NG Boiler 10SP1	1.46	5.82	5.82	0.46	156.29	4.21	64.35
Significant Emission Level	25	15	10	40	40	40	100

The project would result in a significant emissions increase for NOx. Therefore, NOx will be evaluated to see if it would also result in a significant net emissions increase.

Step 2: Net Emissions Increase

Unit	All Values are ton/yr NOx			
	Projected Actual Emissions	Baseline Actual Emissions	Increases in Emissions	Decreases in Emissions
<i>Emissions Increase for New Units:</i>				
NG Boiler 10SP1	156.29	0	156.29	0
<i>Contemporaneous Increases</i>				
NG Boiler 9SP1 - 2013	13.88	0	13.88	0
<i>Contemporaneous Decreases</i>				
Coal Boiler 1SP1 - to be removed	0	187.6	0	-187.6
Coal Boiler 2SP1 - to be removed	0	55.37	0	-55.37
NG Boiler 9SP1 - to be removed	0	13.88	0	-13.88
Total:			170.17	-256.85
Net Emissions Increase:				-86.68

Notes:

Projected Actual Emissions for 10SP1 are based on the 0.2 lb/MMBtu NOx emission limit in 40 CFR 60, Subpart Db and the maximum heat input capacity.

Projected Actual Emissions for 9SP1 are based on the potential to emit for the contemporaneous increase since it was a new unit.

Baseline Actual Emissions from 1SP1 and 2SP1 are based on the 2010 and 2011 calendar years.

The Baseline Actual Emissions for 9SP1 are based on the potential to emit since this is still considered a new unit.

Appendix A: Emission Calculations
Source Summary - Unrestricted Emissions

Company Name: Bunge North America (East), LLC
 Location: 1200 N. 2nd Street, Decatur, Indiana 46733
 SSM No.: 001-35187-00005
 SPM No.: 001-35195-00005
 Permit Reviewer: Laura Spriggs Thompson

Unrestricted Emissions									
Process/ Emission Unit	PM	PM₁₀	PM_{2.5}	SO₂	NO_x	VOC	CO	Total HAP	Hex.
Grain Elevator (EL)	19,690.06	19,465.72	9,966.95	--	--	--	--	--	--
Grain Elevator (EL) - <i>Fugitive Emissions</i>	182.67	54.16	9.19	--	--	--	--	--	--
Hexane Extraction System (24EX) (Part 70)	29.32	29.32	11.05	--	--	435.07	--	435.07	435.07
<i>Hexane Extraction System (24EX) (PSD and CAM)</i>	<i>3,664.65</i>	<i>3,664.65</i>	<i>1,381.57</i>	--	--	<i>435.07</i>	--	<i>435.07</i>	<i>435.07</i>
Milling & Extraction (EX)	605.66	545.42	489.03	--	--	--	--	--	--
Milling & Extraction (EX) - <i>Fugitive Emissions</i>	26.61	3.94	0.26	--	--	--	--	--	--
Boiler 9SP1	0.82	3.30	3.30	0.26	13.88	2.38	36.42	0.82	0.78
Other Natural Gas Combustion	0.44	1.77	1.77	0.21	35.57	1.96	35.52	0.67	0.64
Coal Combustion	38,583.86	38,583.86	6,547.99	1,302.56	323.88	1.88	44.36	73.46	1.80E-03
Murray Boiler	0.92	3.67	3.67	0.29	48.27	2.65	40.54	0.91	0.87
Boiler 10SP1	1.46	5.82	5.82	0.46	156.29	4.21	64.35	1.45	1.38
Fire Pumps	0.46	0.46	0.26	0.43	6.55	0.53	1.41	0.81	--
Vehicle Refueling Operations	--	--	--	--	--	4.39	--	--	--
Tanks	--	--	--	--	--	0.14	--	0.14	0.14
Cooling Tower	0.11	0.09	0.09	--	--	--	--	--	--
Salt Handling, Enzyme, Etc. Operations	47.42	47.42	47.42	--	--	--	--	--	--
Ash Handling	347.63	224.33	224.33	--	--	--	--	--	--
Coal Handling	17.31	5.91	4.24	--	--	--	--	--	--
Degreasing	--	--	--	--	--	0.49	--	--	--
Paved/Unpaved Roads	16.30	3.26	0.80	--	--	--	--	--	--
Total Unrestricted PTE (Part 70)*	59,533.29	58,969.36	17,309.54	1,303.75	428.14	449.49	158.25	511.88	437.50
Total Unrestricted PTE (PSD and CAM)*	63,168.62	62,604.69	18,680.06	1,303.75	428.14	449.49	158.25	511.88	437.50
Total Unrestricted PTE (Part 70)**	20,950.06	20,388.03	10,764.08	1.40	246.67	449.44	141.83	439.04	438.09
Total Unrestricted PTE (PSD and CAM)**	24,585.39	24,023.36	12,134.60	1.40	246.67	449.44	141.83	439.04	438.09

*Prior to removal of 1SP1, 2SP1, and 9SP1 and addition of 10SP1.

**After removal of 1SP1, 2SP1, and 9SP1 and addition of 10SP1.

Appendix A: Emission Calculations
Source Summary - Controlled Emissions

Company Name: Bunge North America (East), LLC
Location: 1200 N. 2nd Street, Decatur, Indiana 46733
SSM No.: 001-35187-00005
SPM No.: 001-35195-00005
Permit Reviewer: Laura Spriggs Thompson

Controlled Emissions									
Process/ Emission Unit	PM	PM₁₀	PM_{2.5}	SO₂	NO_x	VOC	CO	Total HAP	Hex.
Grain Elevator (EL)	400.45	176.11	40.32	--	--	--	--	--	--
Grain Elevator (EL) - Fugitive Emissions	182.67	54.16	9.19	--	--	--	--	--	--
Hexane Extraction System (24EX) (Part 70)	29.32	29.32	11.05	--	--	4.35	--	4.35	4.35
<i>Hexane Extraction System (24EX) (PSD and CAM)</i>	<i>29.32</i>	<i>29.32</i>	<i>11.05</i>	--	--	<i>4.35</i>	--	<i>4.35</i>	<i>4.35</i>
Milling & Extraction (EX)	308.88	248.64	192.26	--	--	--	--	--	--
Milling & Extraction (EX) - Fugitive Emissions	26.61	3.94	0.26	--	--	--	--	--	--
Boiler 9SP1	0.82	3.30	3.30	0.26	13.88	2.38	36.42	0.82	0.78
Other Natural Gas Combustion	0.44	1.77	1.77	0.21	35.57	1.96	35.52	0.67	0.64
Coal Combustion	38.58	38.58	6.55	1,302.56	323.88	1.88	44.36	73.46	1.80E-03
Murray Boiler	0.92	3.67	3.67	0.29	48.27	2.65	40.54	0.91	0.87
Boiler 10SP1	1.46	5.82	5.82	0.46	156.29	4.21	64.35	1.45	1.38
Fire Pumps	0.46	0.46	0.26	0.43	6.55	0.53	1.41	0.81	--
Vehicle Refueling Operations	--	--	--	--	--	4.39	--	--	--
Tanks	--	--	--	--	--	0.14	--	0.14	0.14
Cooling Tower	0.11	0.09	0.09	--	--	--	--	--	--
Salt Handling, Enzyme, Etc. Operations	0.47	0.47	0.47	--	--	--	--	--	--
Ash Handling	96.47	34.82	34.82	--	--	--	--	--	--
Coal Handling	17.31	5.91	4.24	--	--	--	--	--	--
Degreasing	--	--	--	--	--	0.49	--	--	--
Paved/Unpaved Roads	16.30	3.26	0.80	--	--	--	--	--	--
Total Controlled PTE (Part 70)*	1,103.53	601.25	308.25	1,303.75	428.14	18.77	158.25	81.16	6.78
<i>Total Controlled PTE (PSD and CAM)*</i>	<i>1,103.53</i>	<i>601.25</i>	<i>308.25</i>	<i>1,303.75</i>	<i>428.14</i>	<i>18.77</i>	<i>158.25</i>	<i>81.16</i>	<i>6.78</i>
Total Controlled PTE (Part 70)**	1,065.57	565.19	304.23	1.40	246.67	18.72	141.83	8.33	7.38
<i>Total Controlled PTE (PSD and CAM)**</i>	<i>1,065.57</i>	<i>565.19</i>	<i>304.23</i>	<i>1.40</i>	<i>246.67</i>	<i>18.72</i>	<i>141.83</i>	<i>8.33</i>	<i>7.38</i>

*Prior to removal of 1SP1, 2SP1, and 9SP1 and addition of 10SP1.

**After removal of 1SP1, 2SP1, and 9SP1 and addition of 10SP1.

Appendix A: Emission Calculations
Source Summary - Potential to Emit After Issuance

Company Name: Bunge North America (East), LLC
 Location: 1200 N. 2nd Street, Decatur, Indiana 46733
 SSM No.: 001-35187-00005
 SPM No.: 001-35195-00005
 Permit Reviewer: Laura Spriggs Thompson

Potential to Emit After Issuance									
Process/ Emission Unit	PM	PM₁₀	PM_{2.5}	SO₂	NO_x	VOC	CO	Total HAP	Hex.
Grain Elevator (EL)	2,338.20	2,142.43	1,342.07	--	--	--	--	--	--
Grain Elevator (EL) - Fugitive Emissions	182.67	54.16	9.19	--	--	--	--	--	--
Hexane Extraction System (24EX) (Part 70)	29.32	29.32	11.05	--	--	39.2	--	39.2	39.2
Hexane Extraction System (24EX) (PSD and CAM)	78.58	78.58	1,381.57	--	--	39.2	--	39.2	39.2
Milling & Extraction (EX)	240.23	183.11	489.03	--	--	--	--	--	--
Milling & Extraction (EX) - Fugitive Emissions	26.61	3.94	0.26	--	--	--	--	--	--
Boiler 9SP1	0.82	3.30	3.30	0.26	13.88	2.38	36.42	0.82	0.78
Other Natural Gas Combustion	0.44	1.77	1.77	0.21	35.57	1.96	35.52	0.67	0.64
Coal Combustion	563.27	38,583.86	6,547.99	1,302.56	323.88	1.88	44.36	73.46	1.80E-03
Murray Boiler	0.92	3.67	3.67	0.29	48.27	2.65	40.54	0.91	0.87
Boiler 10SP1	1.46	5.82	5.82	0.46	156.29	4.21	64.35	1.45	1.38
Fire Pumps	0.46	0.46	0.26	0.43	6.55	0.53	1.41	0.81	--
Vehicle Refueling Operations	--	--	--	--	--	4.39	--	--	--
Tanks	--	--	--	--	--	0.14	--	0.14	0.14
Cooling Tower	0.11	0.09	0.09	--	--	--	--	--	--
Salt Handling, Enzyme, Etc. Operations	47.42	47.42	47.42	--	--	--	--	--	--
Ash Handling	347.63	224.33	224.33	--	--	--	--	--	--
Coal Handling	17.31	5.91	4.24	--	--	--	--	--	--
Degreasing	--	--	--	--	--	0.49	--	--	--
Paved/Unpaved Roads	16.30	3.26	0.80	--	--	--	--	--	--
<i>Total Limited PTE (Part 70)*</i>	<i>3,795.41</i>	<i>41,283.77</i>	<i>8,684.67</i>	<i>1,303.75</i>	<i>428.14</i>	<i>53.62</i>	<i>158.25</i>	<i>116.01</i>	<i>41.63</i>
<i>Total Limited PTE (PSD)*</i>	<i>3,844.67</i>	<i>41,333.03</i>	<i>10,055.19</i>	<i>1,303.75</i>	<i>428.14</i>	<i>53.62</i>	<i>158.25</i>	<i>116.01</i>	<i>41.63</i>
<i>Total Limited PTE (Part 70)**</i>	<i>3,232.77</i>	<i>2,702.43</i>	<i>2,139.21</i>	<i>1.40</i>	<i>246.67</i>	<i>53.57</i>	<i>141.83</i>	<i>43.18</i>	<i>42.23</i>
<i>Total Limited PTE (PSD)**</i>	<i>3,282.03</i>	<i>2,751.69</i>	<i>3,509.73</i>	<i>1.40</i>	<i>246.67</i>	<i>53.57</i>	<i>141.83</i>	<i>43.18</i>	<i>42.23</i>

*Prior to removal of 1SP1, 2SP1, and 9SP1 and addition of 10SP1.

**After removal of 1SP1, 2SP1, and 9SP1 and addition of 10SP1.

Part 70 Major Source Thresholds	100	100	100	100	100	100	100	25	10
PSD Major Source Thresholds	250	250	250	250	250	250	250	NA	NA

Controlled Emissions are less than the PTE After Issuance because some control measures used by Bunge are not required by the permit.

Appendix A: Emission Calculations
Particulate Emissions from Ash Handling, Coal Handling, and Miscellaneous Sources

Company Name: Bunge North America (East), LLC
 Location: 1200 N. 2nd Street, Decatur, Indiana 46733
 SSM No.: 001-35187-00005
 SPM No.: 001-35195-00005
 Permit Reviewer: Laura Spriggs Thompson

Stack ID	Process / Units	SCC	Operating Hours (hrs/yr)	Max Throughput (tons/hr)	Unrestricted Emissions						Controlled Emissions								
					PM EF (lb/ton)	PM ₁₀ EF (lb/ton)	PM _{2.5} EF (lb/ton)	PM (tons/yr)	PM ₁₀ (tons/yr)	PM _{2.5} (tons/yr)	PM Outlet Grain Loading (gr/dscf)	Flow Rate (dscfm)	Control Device description	Control Device Model #	Control Efficiency %	PM (lb/hr)	PM (tons/yr)	PM ₁₀ (tons/yr)	PM _{2.5} (tons/yr)
4SP	Salt Conveying 4SP1	3-02-005-30	8,760	21.0	na	na	na	11.65	11.65	11.65	0.005	620	Baghouse	54AVS16	99.9%	0.027	0.12	0.116	0.116
204RO	Filter Aid Unit 204RO1	3-05-009-05	8,760	2.5	na	na	na	7.52	7.52	7.52	0.005	400	fabric filter		99.9%	0.017	0.08	0.075	0.075
102EO	Daily Use Bins 102EO1	3-02-005-40	8,760	2.5	na	na	na	11.27	11.27	11.27	0.005	600	fabric filter		99.9%	0.026	0.11	0.113	0.113
103EO	Filter Aid Silos 103EO1	3-02-005-40	8,760	16.0	na	na	na	9.40	9.40	9.40	0.005	500	fabric filter		99.9%	0.021	0.09	0.094	0.094
112EO	Batch Enzyme Bag Unloader 112EO1		8,760	51.0	na	na	na	7.58	7.58	7.58	0.005	400	fabric filter		99.0%	0.017	0.08	0.075	0.075
Subtotal for MISC								47.42	47.42	47.42						0.11	0.47	0.47	0.47
Ash Handling																			
8SP	Pneumatic Ash Conveying 8SP1	3-05-011-17 (similar to cement)	8,760	13.8	na	na	na	157.84	157.84	157.84	0.020	2,100	Baghouse		99.9%	0.360	1.577	1.577	1.577
	Ash Loadout 8SP2	3-05-011-10 (similar to cement)	8,760	13.8	3.14	1.10	1.10	189.79	66.49	66.49	NA	NA	water spray		50.0%	21.67	94.90	33.24	33.24
Subtotal for Ash Handling								347.63	224.33	224.33						22.03	96.47	34.82	34.82
Coal Handling																			
6SP	Coal Receiving 6SP	3-05-010-08	8,760	150.00	0.02	0.01	0.01	13.14	3.94	3.94	NA	NA	NA	NA	NA	3.00	13.14	3.94	3.94
	Coal Handling*		8,760	150.00	0.0032	0.0015	0.00023	2.085	0.99	0.1493	NA	NA	NA	NA	NA	0.476	2.085	0.99	0.1493
	Coal Storage Shed (3 sided)*		8,760	150.00	0.0032	0.0015	0.00023	2.085	0.99	0.1493	NA	NA	NA	NA	NA	0.476	2.085	0.99	0.1493
Subtotal for Coal Handling								17.31	5.91	4.24						3.95	17.310	5.91	4.24

$E \text{ (lb/ton)} = k (0.0032) \times [(U/5)^{1.3} / (M/2)^{1.4}]$

k (PM) = 0.74 U = 15 Mean wind speed (mph)
 k (PM10) = 0.35 M = 4.5 Moisture content (%)
 k (PM2.5) = 0.053

*PM, PM10 and PM2.5 EF from AP-42 13.2.4 equation 13.2.4.3

Methodology:

For units that do not employ a control device: Unrestricted PM/PM₁₀/PM_{2.5} (tons/yr) = Throughput (tons/hr) x EF (lb/ton) x 8760 hr/yr x 1 ton/2000lb
 Controlled PM/PM₁₀/PM_{2.5} (tons/yr) = Unrestricted PM/PM₁₀ /PM_{2.5} (tons/yr)

For units that employ a control device: Unrestricted PM/PM₁₀/PM_{2.5} (tons/yr) = Controlled Emission Rate (tons/yr) / Control Efficiency (%)
 Controlled PM (ton/yr) = Flow rate (dscfm) x Grain Loading (gr/dscf) x 1 lb/7000 grains x 60 minutes/hr x 8760 hr/yr x 1 ton/2000 lb
 Controlled emissions PM_{2.5} = 37.7% of PM₁₀ controlled emissions. This was developed using the EPA PM calculator (<http://www.epa.gov/ttnchie1/software/pmcalc/>).

**Appendix A: Emission Calculations
Coal Combustion (Boilers)**

Company Name: Bunge North America (East), LLC
 Location: 1200 N. 2nd Street, Decatur, Indiana 46733
 SSM No.: 001-35187-00005
 SPM No.: 001-35195-00005
 Permit Reviewer: Laura Spriggs Thompson

Unit	ID#	Heat Input Capacity	Potential Throughput	Date Installed	SCC	Permit Ref.	Sulfur Content	PM Control Efficiency
		MMBtu/hr	ton/yr				%	%
B&W Boiler	1SP1	108.0	36,025	2002	10200204	A.2(uu)	1.02	99.9%
Keeler Boiler	2SP1	52.75	17,595	1994	10200204	A.2(vv)	2.23	99.9%
		160.75	53,620					

	Pollutant						
	CO	NO _x	PM	PM ₁₀	PM _{2.5}	SO ₂	VOC
Source Provided Emission Factor in lb/MMBtu*	0.063	0.46	0.0548	0.0548	0.0093	1.85	
Source Provided Emission Factor in lb/MMBtu (uncontrolled)			54.80	54.80	9.30		
Source Provided Emission Factor in lb/ton							0.07
AP-42 Emission Factor in lb/ton							
Unrestricted PTE							
B&W Boiler 1SP1 PTE (ton/yr)	29.80	217.60	25,923	25,923	4,399	875.12	1.26
Keeler Boiler 2SP1 PTE (ton/yr)	14.56	106.28	12,661	12,661	2,149	427.43	0.62
NEW Total PTE (tons/yr)	44.36	323.88	38,584	38,584	6,548	1,303	1.88
Controlled PTE							
B&W Boiler 1SP1 PTE (ton/yr)	29.80	217.60	25.92	25.92	4.40	875.12	1.26
Keeler Boiler 2SP1 PTE (ton/yr)	14.56	106.28	12.66	12.66	2.15	427.43	0.62
NEW Total PTE (tons/yr)	44.36	323.88	38.58	38.58	6.55	1,303	1.88

	HAPs - Metals												Metal HAP Subtotal
	Antimony	Arsenic	Beryllium	Cadmium	Chromium	Cobalt	Lead	Magnesium	Manganese	Mercury	Nickel	Selenium	
AP-42 Emission Factor in lb/ton	1.8E-05	4.1E-04	2.1E-05	5.10E-05	2.6E-04	1.0E-04	4.2E-04	1.1E-02	4.9E-04	8.3E-05	2.8E-04	1.3E-03	
B&W Boiler 1SP1 PTE (ton/yr)	3.2E-04	7.4E-03	3.8E-04	9.2E-04	4.7E-03	1.8E-03	7.6E-03	2.0E-01	8.8E-03	1.5E-03	5.0E-03	2.3E-02	0.260
Keeler Boiler 2SP1 PTE (ton/yr)	1.6E-04	3.6E-03	1.8E-04	4.5E-04	2.3E-03	8.8E-04	3.7E-03	9.7E-02	4.3E-03	7.3E-04	2.5E-03	1.1E-02	0.127
Total PTE (tons/yr)	4.83E-04	1.10E-02	5.63E-04	1.37E-03	6.97E-03	2.68E-03	1.13E-02	2.95E-01	1.31E-02	2.23E-03	7.51E-03	3.49E-02	0.387

	HAPs - Organics												Organic HAP Subtotal
	D/F	HCl	HF	Anthracene	Benzene	Formaldehyde	Hexane	Napthalene	Phenol	Phenanthrene	Pyrene	Toluene	
Source Provided Emission Factor in lb/MMBtu*		0.098											
AP-42 Emission Factor in lb/ton	2.4E-07		0.15	2.10E-07	1.3E-03	2.4E-04	6.7E-05	1.3E-05	1.6E-05	2.7E-06	3.3E-07	2.4E-04	
B&W Boiler 1SP1 PTE (ton/yr)	4.4E-06	46.36	2.70	3.78E-06	2.34E-02	4.32E-03	1.21E-03	2.34E-04	2.88E-04	4.86E-05	5.94E-06	4.32E-03	49.09
Keeler Boiler 2SP1 PTE (ton/yr)	2.1E-06	22.64	1.32	1.85E-06	1.14E-02	2.11E-03	5.89E-04	1.14E-04	1.41E-04	2.38E-05	2.90E-06	2.11E-03	23.98
Total PTE (tons/yr)	6.54E-06	6.90E+01	4.02E+00	5.63E-06	3.49E-02	6.43E-03	1.80E-03	3.49E-04	4.29E-04	7.24E-05	8.85E-06	6.43E-03	73.07

Notes
 *Emission Factor based on 2010 stack testing of the source.
 Metal HAP Emission Factors: AP-42, Ch. 1.1, Table 1.1-18
 Organic HAP Emission Factors: AP-42, Ch. 1.1, Tables 1.1-13 and 1.1-14
 D/F Emission Factors: AP-42, Ch. 1.1, Table 1.1-12
 HCl & HF Emission Factors: AP-42, Ch. 1.1, Table 1.1-15
 Additional HAPs emission factors are available in AP-42, Chapter 1.1.
 MMBtu = 1,000,000 Btu
 Heating Value, Bituminous Coal, 13,131 Btu/lb
 Wherever no emission rate was provided by the source, Emission Factors are from AP 42, Chapter 1.1, SCC #1-02-002-04, Spreader-Stoker, bituminous
 PM emissions are controlled by baghouses.
 PM emission factor is filterable PM only. PM₁₀ emission factor is filterable and condensable PM₁₀ combined.
 PM_{2.5} emission factor is filterable and condensable PM_{2.5} combined.
 Potential Throughput (ton/yr) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1 lb/0.013131 MMBtu x 1 ton/2000 lb
 Emission (tons/yr) = Throughput (ton/yr) x Emission Factor (lb/ton)/2,000 lb/ton

B&W Boiler 1SP1 PTE (ton/yr)	Total HAP:	49.35
Keeler Boiler 2SP1 PTE (ton/yr)	Total HAP:	24.11
	Total HAP:	73.46

**Appendix A: Emission Calculations
Murray Boiler (3SP1)**

Company Name: Bunge North America (East), LLC
 Location: 1200 N. 2nd Street, Decatur, Indiana 46733
 SSM No.: 001-35187-00005
 SPM No.: 001-35195-00005
 Permit Reviewer: Laura Spriggs Thompson

Unit	ID#	Date Installed	Heat Input Capacity MMBtu/hr	Potential Throughput MMCF/yr	SCC	Permit Ref.: A.2(ww)
Murray Boiler	3SP1	1968	110.2	965.4	10200601	<i>Heating Value:</i> 1,020 Btu/CF

	Pollutant						
	CO	NO _x	PM	PM ₁₀	PM _{2.5}	SO ₂	VOC
<i>Natural Gas Emission Factor in lb/MMCF</i>	84.0	100.0	1.9	7.6	7.6	0.6	5.5
Murray Boiler 3SP1 PTE (ton/yr) - N.G.	40.54	48.27	0.92	3.67	3.67	0.29	2.65

Notes

NATURAL GAS - emission factors: AP-42, Chapter 1.4
 PM emission factor is filterable PM only. PM₁₀ emission factor is filterable and condensable PM combined. PM_{2.5} emission factor is filterable and condensable PM combined.
 Emission Factors for NO_x: Uncontrolled = 100, Low NO_x Burner = 50, Low NO_x Burners/Flue gas recirculation = 32

Methodology

Potential Throughput (MMCF) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1 MMCF/1,020 MMBtu
 Potential Throughput (kgal/yr) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1 kgal/150 MMBtu
 Emission (tons/yr) = Throughput (MMCF/yr) x Emission Factor (lb/MMCF)/2,000 lb/ton
 Emission (tons/yr) = Throughput (kgal/yr) x Emission Factor (lb/kgal)/2,000 lb/ton

	HAPs - Organics					HAP Subtotal Organic
	Benzene	Dichlorobenzene	Formaldehyde	Hexane	Toluene	
<i>Natural Gas Emission Factor in lb/MMCF</i>	2.1E-03	1.2E-03	7.5E-02	1.80	3.4E-03	
Murray Boiler 3SP1 PTE (ton/yr) - N.G.	1.0E-03	5.8E-04	3.6E-02	0.87	1.6E-03	0.91

HAP TOTAL
0.91

	HAPs - Metals					HAP Subtotal Metals
	Cadmium	Chromium	Lead	Manganese	Nickel	
<i>Natural Gas Emission Factor in lb/MMCF</i>	1.1E-03	1.4E-03	5.0E-04	3.8E-04	2.1E-03	
Murray Boiler 3SP1 PTE (ton/yr) - N.G.	5.3E-04	6.8E-04	2.4E-04	1.8E-04	1.0E-03	2.6E-03

NATURAL GAS - HAP emission factors: AP-42, Chapter 1.4

Appendix A: Emission Calculations
Boiler 10SP1 (Natural Gas > 100 MMBtu/hr)

Company Name: Bunge North America (East), LLC
 Location: 1200 N. 2nd Street, Decatur, Indiana 46733
 SSM No.: 001-35187-00005
 SPM No.: 001-35195-00005
 Permit Reviewer: Laura Spriggs Thompson

Heat Input Capacity MMBtu/hr	HHV mmBtu mmscf	Potential Throughput MMCF/yr
178.41	1020	1532.2

	Pollutant						
	PM*	PM10*	direct PM2.5*	SO2	NOx**	VOC	CO
Emission Factor in lb/MMCF	1.9	7.6	7.6	0.6	0.2	5.5	84.0
Emission Factor in lb/MMBtu							
Potential Emission in tons/yr	1.5	5.8	5.8	0.5	156.3	4.2	64.4

*PM emission factor is filterable PM only. PM10 emission factor is condensable and filterable PM10 combined.

PM2.5 emission factor is condensable and filterable PM2.5 combined.

**The Emission Factor for NOx is based upon the NOx emission limit from 40 CFR 60, Subpart Db. The vendor has provided a guarantee of 36 lb/MMCF, which is much lower. However, for purposes of permitting, the NSPS limit is being used.

	HAPs - Organics				
	Benzene	Dichlorobenzene	Formaldehyde	Hexane	Toluene
Emission Factor in lb/MMcf	2.1E-03	1.2E-03	7.5E-02	1.8E+00	3.4E-03
Potential Emission in tons/yr	1.61E-03	9.19E-04	5.75E-02	1.38E+00	2.60E-03

	HAPs - Metals				
	Lead	Cadmium	Chromium	Manganese	Nickel
Emission Factor in lb/MMcf	5.0E-04	1.1E-03	1.4E-03	3.8E-04	2.1E-03
Potential Emission in tons/yr	3.83E-04	8.43E-04	1.07E-03	2.91E-04	1.61E-03

The five highest organic and metal HAPs emission factors are provided above.

Additional HAPs emission factors are available in AP-42, Chapter 1.4.

Total HAPs:	1.45
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Methodology

All emission factors are based on normal firing.

MMBtu = 1,000,000 Btu

MMCF = 1,000,000 Cubic Feet of Gas

Potential Throughput (MMCF) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1 MMCF/1,020 MMBtu

Emission Factors from AP 42, Chapter 1.4, Tables 1.4-1, 1.4-2, and 1.4-3, SCC #1-01-006-01, 1-01-006-04 (AP-42 Supplement D 3/98)

Emission (tons/yr) = Throughput (MMCF/yr) x Emission Factor (lb/MMCF)/2,000 lb/ton

**Appendix A: Emission Calculations
Fire Pump Engines (Diesel)**

Company Name: Bunge North America (East), LLC
 Location: 1200 N. 2nd Street, Decatur, Indiana 46733
 SSM No.: 001-35187-00005
 SPM No.: 001-35195-00005
 Permit Reviewer: Laura Spriggs Thompson

	Size hp	Displacement L/cyl.	Potential Throughput hp-hr/yr	Heat Input Capacity MMBtu/hr	Emergency Use Only 500 hrs/yr	Fuel Diesel
Cummins Fire Pump #1 (1980)	380	2.34	190,000	2.66		
Cummins Fire Pump #2 (1980)	380	2.34	190,000	2.66		
Detroit Fire Pump	85	1.16	42,500	0.60		
Total	845	5.83	422,500	5.92		

	Pollutant						
	CO	NO _x	PM	PM ₁₀	PM _{2.5}	SO ₂	VOC
<i>Emission Factor in lb/hp-hr</i>	6.68E-03	0.031	2.20E-03	2.20E-03	2.20E-03	2.05E-03	2.51E-03
Cummins Fire Pump #1 (1980) PTE (ton/yr)	0.63	2.95	0.209	0.209	0.209	0.195	0.239
Cummins Fire Pump #2 (1980) PTE (ton/yr)	0.63	2.95	0.209	0.209	0.000	0.195	0.239
Detroit Fire Pump PTE (ton/yr)	0.14	0.66	0.047	0.047	0.047	0.044	0.053
Total	1.41	6.55	0.46	0.46	0.26	0.43	0.53

Emission factors are from AP-42 Table 3.3-1.

7,000 Btu = 1 hp-hr

All 3 fire pumps are 4 stroke engines.

Methodology

Throughput (hp-hr/yr) = Size (hp) x Operating Hours (hr/yr)

Heat Input Capacity (MMBtu/hr) = Size (hp) x 7000 Btu/hp-hr x 1 MMBtu/1,000,000 Btu

Emission (tons/yr) = Throughput (hp-hr/yr) x Emission Factor (lb/hp-hr) / 2,000 lb/ton

VOC Emission Rates:

2.47E-03 exhaust
0 evaporative
4.41E-05 crankcase
0 refueling
2.51E-03 total

	HAPs - Organics							Total HAP
	Benzene	Toluene	Xylene	Formaldehyde	Acetaldehyde	Acrolein	Total PAH	
<i>Emission Factor in lb/hp-hr</i>	9.33E-04	4.09E-04	2.85E-04	1.18E-03	7.67E-04	9.25E-05	1.68E-04	
Cummins Fire Pump #1 (1980) PTE (ton/yr)	8.9E-02	3.9E-02	2.7E-02	1.1E-01	7.3E-02	8.8E-03	1.6E-02	0.36
Cummins Fire Pump #2 (1980) PTE (ton/yr)	8.9E-02	3.9E-02	2.7E-02	1.1E-01	7.3E-02	8.8E-03	1.6E-02	0.36
Detroit Fire Pump PTE (ton/yr)	2.0E-02	8.7E-03	6.1E-03	2.5E-02	1.6E-02	2.0E-03	3.6E-03	0.08
Total	0.20	8.6E-02	6.0E-02	0.25	0.16	2.0E-02	3.5E-02	0.81

PAH = Polyaromatic Hydrocarbon (PAHs are considered HAPs, since they are considered Polycyclic Organic Matter)

Emission factors are from AP-42 Table 3.3-2.

**Appendix A: Emission Calculations
Grain Elevator Emissions (1 of 2)**

Company Name: Bunge North America (East), LLC
 Location: 1200 N. 2nd Street, Decatur, Indiana 46733
 SSM No.: 001-35187-00005
 SPM No.: 001-35195-00005
 Permit Reviewer: Laura Spriggs Thompson

1) Equipment with controls that creates an artificial air flow

Stack ID	Process / Units	Hours (hrs/yr)	Max Throughput (tons/hr)	Emission Factors			Unrestricted Emissions			Controlled Emissions							Limited Emissions				
				PM EF	PM ₁₀ EF	PM _{2.5} EF	PM	PM ₁₀	PM _{2.5}	PM Outlet Grain Loading	Flow Rate	Control Device	Control Device	Control Efficiency	PM		PM ₁₀	PM _{2.5}	PM	PM ₁₀	PM _{2.5}
				(lb/ton)	(lb/ton)	(lb/ton)	(tons/yr)	(tons/yr)	(tons/yr)	(gr/dscf)	(dscfm)	description	Model #	%	(lb/hr)	(tons/yr)	(tons/yr)	(tons/yr)	(tons/yr)	(ton/yr)	(ton/yr)
1EL	Truck Dump No. 2 1EL1	8,760	600.0	na	na	na	150.92	150.92	75.46	0.003	13,400	fabric filter	124RF10	99.0%	0.34	1.51	1.51	0.75	150.92	150.92	75.46
2EL	Dryer/Screeners (Meqatex)	8,760	300.0	na	na	na	17,269.71	17,269.71	8,634.86	0.002	23,000	Baghouse	72RJ96	99.99%	0.39	1.73	1.73	0.86	24.97	14.89	9.99
	#1 Scalperator	8,760	120.0																		
	#2 Scalperator	8,760	120.0																		
	East Work House 2EL1																				
	Ext. Screening Bin																				
	Screening Bin																				
	Solvent Screening Leg																				
	#1 Leg																				
	#2 Leg																				
	#3 Leg																				
	West to East Hi-Roller																				
West to East Belt Loader																					
Dry Bean Leg																					
#1 Dryer Hi-Roller																					
Weaver's Belt																					
102 Belt																					
2EL2	Screenings Hammermill - 2EL2	8,760	5.6	na	na	na	45.05	45.05	22.53	0.003	4,000	fabric filter	2EL2	99.0%	0.10	0.45	0.45	0.23	0.74	0.74	22.53
5EL	5EL1	8,760	900.0	na	na	na	45.48	45.48	22.74	0.003	4,038	fabric filter	24RJ72	99.0%	0.10	0.45	0.45	0.23	45.48	45.48	22.74
	North Tripper Buggy																				
	North Galley Belt Loader																				
	East West Belt																				
6EL	6EL1	8,760	900.0	na	na	na	43.56	43.56	21.78	0.003	3,868	fabric filter	24RJ72	99.0%	0.10	0.44	0.44	0.22	43.56	43.56	21.78
9EL	South Tripper Buggy	8,760	900.0	na	na	na	432.12	432.12	432.12	0.005	23,020	fabric filter	72RJ96	99.0%	0.99	4.32	4.32	4.32	432.12	432.12	432.12
	South Galley Belt Loader																				
10EL	Truck Dump No. 3 & Leg 9EL1	8,760	720.0	na	na	na	375.94	375.94	187.97	0.005	20,027	fabric filter	72RJ96	99.0%	0.86	3.76	3.76	1.88	375.94	375.94	187.97
	Rail Car Loadout Shed 10EL1																				
	Rail Loadout																				
	Rail Receiving																				
12EL	North Leg	8,760	600.0	na	na	na	154.11	154.11	77.06	0.005	8,210	fabric filter	72RJ96	99.0%	0.35	1.54	1.54	0.77	154.11	154.11	77.06
	South Leg																				
	Truck Dump No. 5 & Leg 12EL1																				
	Jumbo Silo Tunnel Belts 13EL1																				
13EL	Jumbo Silo East Tunnel Belt	8,760	360.0	na	na	na	174.76	174.76	87.38	0.005	9,310	fabric filter	72RJ96	99.0%	0.40	1.75	1.75	0.87	174.76	174.76	87.38
	Jumbo Silo West Tunnel Belt																				
	Jumbo Silo Crossover Tunnel Belt																				
	Jumbo Silo Galley 14EL1																				
14EL	Jumbo Silo East Galley Belt	8,760	600.0	na	na	na	268.51	268.51	134.25	0.005	14,304	fabric filter	72RJ96	99.0%	0.61	2.69	2.69	1.34	268.51	268.51	134.25
	Jumbo Silo West Galley Belt																				
	Jumbo Silo Crossover Galley Belt																				
	Truck Dump No. 6 15EL1																				
15EL	Truck Dump No. 7 20EL1	8,760	360.0	na	na	na	214.37	214.37	107.18	0.005	11,420	fabric filter	72RJ96	99.0%	0.49	2.14	2.14	1.07	214.37	214.37	107.18
	Wright Scale Truck Unloading Pit																				
	#1 Bucket Elevator Leg																				
	#2 Bucket Elevator Leg																				
20EL	Truck Dump No. 8 15EL1	8,760	450.0	na	na	na	126.14	126.14	126.14	0.005	7,000	fabric filters (2 in parallel)	24RJ72	99.0%	0.29	1.26	1.26	1.26	126.14	126.14	126.14
	Truck Dump No. 9 15EL1																				
22EX2	Screenings Pneumatic Convey - 2EL3	8,760	5.6	na	na	na	11.08	11.08	11.08	0.005	590	fabric filter	22EX2	99.0%	0.03	0.11	0.11	0.11	0.13	0.13	11.08
	Truck Dump No. 10 15EL1																				
Subtotal for Grain Elevator (EL)							19,311.76	19,311.76	9,940.55						5.06	22.15	22.15	13.92	2011.8	2001.7	1315.7

**Appendix A: Emission Calculations
Grain Elevator Emissions (2 of 2)**

Company Name: Bunge North America (East), LLC
 Location: 1200 N. 2nd Street, Decatur, Indiana 46733
 SSM No.: 001-35187-00005
 SPM No.: 001-35195-00005
 Permit Reviewer: Laura Spriggs Thompson

2) Equipment with controls that does not creates an artificial air flow

Stack ID	Process / Units	SCC	Hours (hrs/yr)	Max Throughput (tons/hr)	Emission Factors			Unrestricted Emissions			Controlled Emissions						Limited Emissions							
					PM EF (lb/ton)	PM ₁₀ EF (lb/ton)	PM _{2.5} EF (lb/ton)	PM (tons/yr)	PM ₁₀ (tons/yr)	PM _{2.5} (tons/yr)	PM Outlet Grain Loading (gr/dscf)	Flow Rate (dscfm)	Control Device description	Control Device Model#	Control Efficiency	PM (lb/hr)	PM ₁₀ (tons/yr)	PM _{2.5} (tons/yr)	PM (ton/yr)	PM10 (ton/yr)	PM2.5 (ton/yr)			
19EL	No 2 Driver 19EL1	3-02-005-27	8,760	60.0	2.20E-01	5.50E-02	9.40E-03	57.82	14.45	2.47	NA	NA	Screen-Kleen	NA	NA	13.20	57.82	14.45	2.47	5.96	1.24	2.47		
3EL	Silo bin vents 3EL1	3-02-005-40	8,760	900.0	2.50E-02	6.30E-03	1.10E-03	98.55	24.83	4.34	NA	NA	oil dust suppressant	NA	NA	22.50	98.55	24.83	4.34	98.55	24.83	4.34		
4EL	Silo direct loadout 4EL1	3-02-005-40	8,760	270.0	2.50E-02	6.30E-03	1.10E-03	29.57	7.45	1.30	NA	NA	oil dust suppressant	NA	NA	6.75	29.57	7.45	1.30	29.57	7.45	1.30		
7EL1	south west receiving conveyor	3-02-005-30	8,760	360.0	6.10E-02	3.40E-02	5.80E-03	96.18	53.61	9.15	NA	NA	oil dust suppressant	NA	NA	21.96	96.18	53.61	9.15	96.18	53.61	9.15		
8EL1	north west receiving conveyor	3-02-005-30	8,760	360.0	6.10E-02	3.40E-02	5.80E-03	96.18	53.61	9.15	NA	NA	oil dust suppressant	NA	NA	21.96	96.18	53.61	9.15	96.18	53.61	9.15		
Subtotal for Grain Elevator (EL)								378.30	153.96	26.40							86.37	378.30	153.96	26.40	326.44	140.75	26.40	
Total for Grain Elevator (EL)								19,690.06	19,465.72	9,966.95								91.43	400.45	176.11	40.32	2338.2	2142.4	1342.1

Grain Elevator (EL) - AP-42 Emission Factors: Table 9.9.1-1, unless otherwise specified

Methodology:

For units that do not employ a control device:
 Unrestricted PM/PM₁₀/PM_{2.5} (tons/yr) = Throughput (tons/hr) x EF (lb/ton) x 8760 hr/yr x 1 ton/2000lb
 Controlled PM/PM₁₀/PM_{2.5} (tons/yr) = Unrestricted PM/PM₁₀/PM_{2.5} (tons/yr)

For units that employ a control device:
 Unrestricted PM/PM₁₀/PM_{2.5} (tons/yr) = Controlled Emission Rate (tons/yr) / Control Efficiency (%)
 Controlled PM/PM₁₀/PM_{2.5} (ton/yr) = Flow rate (dscfm) x Outlet Grain Loading (gr/dscf) x 1 lb/7000 grains x 60 minutes/hr x 8760 hr/yr x 1 ton/2000 lb

Limited Emissions are based on permit limits, where applicable, or the unrestricted emissions where there is no PSD minor limit.

Appendix A: Emission Calculations
Fugitive Unloading, Storage, and Handling Emissions

Company Name: Bunge North America (East), LLC
 Location: 1200 N. 2nd Street, Decatur, Indiana 46733
 SSM No.: 001-35187-00005
 SPM No.: 001-35195-00005
 Permit Reviewer: Laura Spriggs Thompson

Year Installed	Process / Units	Capture Efficiency (%)	Hours of Operation (hrs/yr)	Max Throughput (tons/hr)	PM EF (lb/ton)	PM ₁₀ EF (lb/ton)	PM _{2.5} EF (lb/ton)	Potential to Emit PM (tons/yr)	Potential to Emit PM ₁₀ (tons/yr)	Potential to Emit PM _{2.5} (tons/yr)	Fugitive PM (tons/yr)	Fugitive PM ₁₀ (tons/yr)	Fugitive PM _{2.5} (tons/yr)	SCC
1980	Truck Dump No. 2 - 1EL fug.	95.0%	8760	600	1.80E-01	5.90E-02	1.00E-02	473.04	155.05	26.28	23.652	7.753	1.314	3-02-005-51
1984	Rail Loadout - 10EL fug.	85.0%	8760	720	2.70E-02	2.20E-03	3.70E-04	85.15	6.94	1.17	12.772	1.041	0.175	3-02-005-63
1960	Rail Receiving - 10EL fug.	85.0%	8760	720	3.20E-02	7.80E-03	1.30E-03	100.92	24.60	4.10	15.137	3.690	0.615	3-02-005-53
1997	Truck Dump No. 7 - 20EL fug.	95.0%	8760	450	1.80E-01	5.90E-02	1.00E-02	354.78	116.29	19.71	17.739	5.814	0.986	3-02-005-51
< 1977	Silo bin vents - 3EL fug.	80.0%	8760	900	2.50E-02	6.30E-03	1.10E-03	98.55	24.83	4.34	19.710	4.967	0.867	3-02-005-40
< 1977	Silo direct loadout - 4EL fug.	80.0%	8760	270	8.60E-02	2.90E-02	4.90E-03	101.70	34.30	5.79	20.341	6.859	1.159	3-02-005-40
1976	Truck Dump No. 3 & Leg - 9EL fug.	95.0%	8760	900	1.80E-01	5.90E-02	1.00E-02	709.56	232.58	39.42	35.478	11.629	1.971	3-02-005-51
< 1977	Truck Dump No. 5 & Leg - 12EL fug.	95.0%	8760	600	1.80E-01	5.90E-02	1.00E-02	473.04	155.05	26.28	23.652	7.753	1.314	3-02-005-51
< 1977	Truck Dump No. 6 - 15EL fug.	95.0%	8760	360	1.80E-01	5.90E-02	1.00E-02	283.82	93.03	15.77	14.191	4.652	0.788	3-02-005-51
Subtotal for Grain Elevator (EL)								2,680.56	842.67	142.86	182.67	54.16	9.19	
<hr/>														
1982 (1999)	Truck & Rail Meal Loadout	85.0%	8760	150	0.27	0.04	0.0027	177.39	26.28	1.76	26.609	3.942	0.264	3-02-007-91
Subtotal for Milling & Extraction (EX)								177.39	26.28	1.76	26.61	3.94	0.26	

Grain Elevator (EL) - AP-42 Emission Factors: Table 9.9.1-1

Milling & Extraction (EX) - AP-42 Emission factors:Table 9.11.1-1 (Vegetable Oil Processing)

Methodology:

Unrestricted PM/PM₁₀/PM_{2.5} (tons/hr) = Throughput (tons/hr) x EF (lb/ton) x 8760 hr/yr x 1 ton/2000lb

Fugitive PM/PM₁₀/PM_{2.5} (tons/hr) = Unrestricted PM/PM₁₀/PM_{2.5} (tons/hr) x (1 - Capture Efficiency (%))

**Appendix A: Emission Calculations
Milling and Extraction Emissions (1 of 3)**

Company Name: Bunge North America (East), LLC
 Location: 1200 N. 2nd Street, Decatur, Indiana 46733
 SSM No.: 001-35187-00005
 SPM No.: 001-35195-00005
 Permit Reviewer: Laura Spriggs Thompson

1) Equipment with controls that creates an artificial air flow

Stack ID	Process / Units	Hours (hrs/yr)	Max Throughput (tons/hr)	Emission Factors			Unrestricted Emissions			Controlled Emissions							Limited Emissions				
				PM EF (lb/ton)	PM ₁₀ EF (lb/ton)	PM _{2.5} EF (lb/ton)	PM (tons/yr)	PM ₁₀ (tons/yr)	PM _{2.5} (tons/yr)	PM Outlet Grain Loading (gr/dscf)	Flow Rate (dscfm)	Control Device ID#	Control Device Model #	Control Efficiency %	PM (lb/hr) (tons/yr)		PM ₁₀ (tons/yr)	PM _{2.5} (tons/yr)	PM (ton/yr)	PM ₁₀ (ton/yr)	PM _{2.5} (ton/yr)
9EX	No. 2 Leg Aspiration 9EX1	8,760	125.0	na	na	na	11.26	11.26	11.26	0.003	1,000.00	fabric filter	96AVS16	99.0%	0.03	0.11	0.11	0.11	11.26	11.26	11.26
	Leg No. 2	8,760																			
	Mixing Conveyor	8,760																			
	Bin Drag	8,760																			
12EX	Loadout Bin Aspiration 12EX1	8,760	540.0	na	na	na	95.73	95.73	95.73	0.003	8,500.00	fabric filter	96AVR80	99.0%	0.22	0.96	0.96	0.96	95.73	95.73	95.73
6EX	Truck Meal Loadout 6EX1	8,760	150.0	na	na	116.56	116.56	116.56	0.003	51,744.00	fabric filter	RF12376	95.0%	1.33	5.83	5.83	5.83	9.71	9.71	116.56	
6EX	Rail Meal Loadout 6EX1	8,760																			
10EX	No. 3 Leg Aspiration 10EX1	8,760	333.0	na	na	na	22.53	22.53	22.53	0.003	2,000.00	fabric filter	96AVS16	99.0%	0.05	0.23	0.23	0.23	22.53	22.53	22.53
	Leg No. 3	8,760																			
	Tunnel Drag	8,760																			
	Meal Loadout Drag	8,760																			
11EX	Kaolin Bin 11EX1	8,760	15.0	na	na	na	11.26	11.26	11.26	0.003	1,000.00	fabric filter	96AVS16	99.0%	0.03	0.11	0.11	0.11	11.26	11.26	11.26
22EX	Millfeed Storage Bin 22EX	8,760	156.3	na	na	na	5.63	5.63	5.63	0.003	500.00	fabric filter	Fabric Filter	99.0%	0.01	0.06	0.06	0.06	5.63	5.63	5.63
32EX	Pelletizer/Pellet Cooler 32EX1	8,760	10.0	na	na	na	6.94	6.94	6.94	0.006	6,160.00	cyclone	Cyclone	80.0%	0.32	1.39	1.39	1.39	6.94	6.94	6.94
32EX2	Enclosed Conveyor 32EX2	8,760																			
Subtotal for Milling & Extraction (EX)							162.91	162.91	162.91						1.74	7.61	7.61	7.61	56.07	56.07	162.91

**Appendix A: Emission Calculations
Milling and Extraction Emissions (2 of 3)**

Company Name: Bunge North America (East), LLC
 Location: 1200 N. 2nd Street, Decatur, Indiana 46733
 SSM No.: 001-35187-00005
 SPM No.: 001-35195-00005
 Permit Reviewer: Laura Spriggs Thompson

2) Equipment with controls that does not creates an artificial air flow

Stack ID	Process / Units	SCC	Hours (hrs/yr)	Max Throughput (tons/hr)	Emission Factors			Unrestricted Emissions			Controlled Emissions					Limited Emissions						
					PM EF (lb/ton)	PM ₁₀ EF (lb/ton)	PM _{2.5} EF (lb/ton)	PM (tons/yr)	PM ₁₀ (tons/yr)	PM _{2.5} (tons/yr)	PM Outlet Grain Loading (qr/dscf)	Flow Rate (dscfm)	Control Device ID#	Control Device Model #	Control Efficiency %	PM			PM	PM ₁₀	PM _{2.5}	
																	(lb/hr)	(tons/yr)	(tons/yr)	(tons/yr)	(ton/yr)	(ton/yr)
1EX	B Flake Aspiration 1EX1	3-02-008-18	8,760	93.1	0.15	0.08	0.08	13.97	13.97	13.97	0.003	12,000.00	fabric filter	DC Vox Fabric 1EX	99.0%	0.31	1.35	1.35	1.35	2.08	2.08	13.97
	Flaking Roll #1	3-02-008-18	8,760																			
	Flaking Roll #2	3-02-008-18	8,760																			
	Flaking Roll #3	3-02-008-18	8,760																			
	Flaking Roll #4	3-02-008-18	8,760																			
	Flaking Roll #5	3-02-008-18	8,760																			
	Flaking Roll #6	3-02-008-18	8,760																			
	B Flake N/S Drag	3-02-008-18	8,760																			
	Flaking #14 1EX2	3-02-008-18	8,760																			
	Flaking Roll #14	3-02-008-18	8,760																			
	Flaking Roll Discharge #14	3-02-008-18	8,760																			
	A Flake Aspiration 3EX1	3-02-008-88	8,760																			
	Flaking Roll #9	3-02-008-18	8,760																			
	Flaking Roll #10	3-02-008-18	8,760																			
Flaking Roll #11	3-02-008-18	8,760																				
Flaking Roll #12	3-02-008-18	8,760																				
Flaking Roll #13	3-02-008-18	8,760																				
A Flake N/S Drag	3-02-008-18	8,760																				
A Flake E/W Drag	3-02-008-18	8,760																				
North Run Around Drag 3EX2	3-02-008-18	8,760																				
4EX	Hull whole bean processing 4EX1	3-02-005-30	8,760	156.3	6.10E-02	3.40E-02	5.80E-03	9.53	9.53	9.53	0.006	33,300.00	fabric filter	Cyclone 144RJ120	99.0%	1.80	7.88	7.88	7.88	6.31	6.31	9.53
	Whole Bean Scale	3-02-005-30	8,760																			
	A Whole Bean Leg	3-02-005-30	8,760																			
	A Surge Bin	3-02-005-30	8,760																			
	Whole Bean Drag	3-02-005-30	8,760																			
	B Surge Bin	3-02-005-30	8,760																			
	Run Around Rework Screw 4EX2	3-02-005-30	8,760																			
	Hull Refining/Grinding 4EX3	3-02-005-30	8,760																			
	Hull Refining Screw Conveyor	3-02-005-30	8,760																			
	Hull Refining	3-02-005-30	8,760																			
	Hull Grinding	3-02-005-30	8,760																			
5EX	Dehulling 5EX1	3-02-007-85	8,760	156.3	0.36	0.36	0.36	56.27	56.27	56.27	0.003	39,100.00	fabric filter	Cyclone 144RJ120	99.0%	1.11	4.84	4.84	4.84	6.59	6.59	56.27
	Screen Aspiration 5EX3	3-02-007-85	8,760																			
7EX	Soybean Meal Sizing/Grinding 7EX	3-02-007-93	8,760	176.0	0.32	0.32	0.32	56.85	56.85	56.85	0.003	20,000.00	fabric filter	Baghouse 96AVS64	99.0%	0.51	2.25	2.25	2.25	2.25	2.25	56.85
	Meal Screener 7EX1	3-02-007-93	8,760																			
	Meal Grinder 7EX2	3-02-007-93	8,760																			
	Meal Grinder 7EX3	3-02-007-93	8,760																			
	Meal Grinder 7EX4	3-02-007-93	8,760																			
	Meal Grinder 7EX5	3-02-007-93	8,760																			
	Conveyors	3-02-007-93	8,760																			
17EX	B Flake Aspiration 17EX2	3-02-008-18	8,760	156.3	0.15	0.08	0.08	23.45	23.45	23.45	0.018	2,250.00	cyclone	Cyclone	80.0%	0.35	1.52	1.52	1.52	23.45	23.45	23.45
	Flaking Roll #8	3-02-008-18	8,760																			
	B Flake E/W Drag	3-02-008-18	8,760																			
33EX	Hot Dehulling 5EX2	3-02-007-86	8,761	156.3	0.20	0.20	0.20	136.92	136.92	136.92	NA	NA	water knock out box	NA	NA	31.26	136.92	136.92	136.92	0.75	0.75	136.92
	Flake Drag Aspiration Fan 15EX		8,760																			
23EX	Meal Storage 23EX1	3-02-005-40	8,760	125.0	2.50E-02	6.30E-03	1.10E-03	3.13	1.58E-04	6.93E-06	NA	NA	fabric filter	bin vent filter	NA	0.71	3.13	1.58E-04	6.93E-06	0.09	0.09	6.93E-06
29EX	Pelletizer Loadout Bin 29EX1		8,760	10.0	2.50E-02	6.30E-03	1.10E-03	0.25	1.58E-04	6.93E-06	NA	NA	bin vent filter	bin vent filter	NA	0.06	0.25	1.58E-04	6.93E-06	0.25	1.58E-04	6.93E-06
internal	Outside Conditioner 31EX1	3-02-007-87	8,760	156.3	0.10	0.06	0.02	68.46	41.08	15.49	NA	NA	filter bag (internal)	NA	NA	15.63	68.46	41.08	15.49	68.46	41.08	15.49
internal	Outside Conditioner 31EX2	3-02-007-87	8,760																			
Subtotal for Milling & Extraction (EX)								376.13	345.38	319.78						52.44	234.67	203.91	178.32	117.55	89.91	319.78

**Appendix A: Emission Calculations
Milling and Extraction Emissions (3 of 3)**

Company Name: Bunge North America (East), LLC
 Location: 1200 N. 2nd Street, Decatur, Indiana 46733
 SSM No.: 001-35187-00005
 SPM No.: 001-35195-00005
 Permit Reviewer: Laura Spriggs Thompson

3) Equipment without controls

Stack ID	Process / Units	SCC	Hours	Max Throughput (tons/hr)	Emission Factors			Unrestricted Emissions			Controlled Emissions						Limited Emissions						
					PM EF (lb/ton)	PM ₁₀ EF (lb/ton)	PM _{2.5} EF (lb/ton)	PM (tons/yr)	PM ₁₀ (tons/yr)	PM _{2.5} (tons/yr)	PM Outlet Grain Loading (gr/dscf)	Flow Rate (dscfm)	Control Device ID#	Control Device Model #	Control Efficiency %	PM (lb/hr)	PM ₁₀ (tons/yr)	PM _{2.5} (tons/yr)	PM (ton/yr)	PM ₁₀ (ton/yr)	PM _{2.5} (ton/yr)		
16EX	16EX	3-02-019-16	8,760	93.0	0.06	0.03	0.01	24.85	13.85	2.36	NA	NA	NA	NA	NA	5.67	24.85	13.85	2.36	24.85	13.85	2.36	
	Belt to Storage Bowls 16EX1	3-02-019-16	8,760																				
	Large Storage Bowl 16EX2	3-02-019-16	8,760																				
	Small Storage Bowl 16EX3	3-02-019-16	8,760																				
18EX	Whole Bean Bins 18EX1	3-02-019-20	8,760	156.3	0.06	0.03	0.01	41.76	23.28	3.97	NA	NA	NA	NA	NA	9.53	41.76	23.28	3.97	41.76	23.28	3.97	
Subtotal for Milling & Extraction (EX)								66.61	37.13	6.33						15.21	66.61	37.13	6.33	66.61	37.13	6.33	
Total for Milling & Extraction (EX)								605.66	545.42	489.03							69.38	308.88	248.64	192.26	240.23	183.11	489.03

Milling & Extraction (EX) - AP-42 Emission factors: Table 9.11.1-1 (Vegetable Oil Processing), unless otherwise specified

Methodology:

For units that do not employ a control device:
 Unrestricted PM/PM₁₀/PM_{2.5} (tons/yr) = Throughput (tons/hr) x EF (lb/ton) x 8760 hr/yr x 1 ton/2000lb
 Controlled PM/PM₁₀/PM_{2.5} (tons/yr) = Unrestricted PM/PM₁₀/PM_{2.5} (tons/yr)

For units that employ a control device:
 Unrestricted PM/PM₁₀/PM_{2.5} (tons/yr) = Controlled Emission Rate (tons/yr) / Control Efficiency (%)
 Controlled PM (ton/yr) = Flow rate (dscfm) x Grain Loading (gr/dscf) x 1 lb/7000 grains x 60 minutes/hr x 8760 hr/yr x 1 ton/2000 lb
 Controlled emissions PM_{2.5} = 37.7% of PM₁₀ controlled emissions. This was developed using the EPA PM calculator (<http://www.epa.gov/ttnchie1/software/pmcalc/>).

Limited Emissions are based on permit limits, where applicable, or the unrestricted emissions where there is no PSD minor limit.

**Appendix A: Emission Calculations
Hexane Extraction - Particulate Emissions**

Company Name: Bunge North America (East), LLC
 Location: 1200 N. 2nd Street, Decatur, Indiana 46733
 SSM No.: 001-35187-00005
 SPM No.: 001-35195-00005
 Permit Reviewer: Laura Spriggs Thompson

Year Installed	Stack ID	Process / Units	SCC	Unrestricted Particulate Emissions				Controlled Particulate Emissions							Limited Particulate Emissions					
				Max Throughput (tons/hr)	PM (tons/yr)	PM ₁₀ (tons/yr)	PM _{2.5} (tons/yr)	PM Outlet Grain Loading (gr/dscf)	Flow Rate (dscfm)	PM Control Device description	PM Control Device ID #	PM Control Efficiency %	PM (lb/hr) (tons/yr)		PM ₁₀ (tons/yr)	PM _{2.5} (tons/yr)	PM (ton/yr)	PM10 (ton/yr)	PM2.5 (ton/yr)	
	24EXA	Hexane Extraction System (Total Hexane Usage) 24EX	3-02-019-99	105.08	Throughput = VOC in			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				0.058	Throughput = VOC in			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1996	24EX	A Unit 13EXa A pre-DT		109.40	1,671.83	1,671.83	630.28	0.0095	37,500	mineral oil absorber	mineral oil absorber	80%	3.05	13.37	13.37	5.04	29.74	29.74	630.28	
1980		A Unit 13EXb A DT								mineral oil absorber	mineral oil absorber									
1980		A Unit 13EXc A Meal Dryer	3-02-007-89							integral cyclone	integral cyclone									
1996		B Unit 14EXa B pre-DT		109.40	1,671.83	1,671.83	630.28	0.0095	37,500	mineral oil absorber	mineral oil absorber	80%	3.05	13.37	13.37	5.04	29.74	29.74	630.28	
1980		B Unit 14EXb B DT								mineral oil absorber	mineral oil absorber									
1980		B Unit 14EXc B Meal Dryer	3-02-007-89							integral cyclone	integral cyclone									
1996		Meal Cooler 21EX	3-02-007-90	110.00	320.99	320.99	121.01	0.0036	19,000	integral cyclone	integral cyclone	80%	0.59	2.57	2.57	0.97	19.10	19.10	121.01	
1995		EAST Hexane Storage Tank 24EX4A		--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2005		WEST Hexane Storage Tank 24EX4B		--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
< 1980		Wastewater System 24EX5		7.36	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1975	Refined Hot Oil Well 24EX6		24.26	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
		Hexane Losses from transfer to meal		97.34	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
		Hexane Losses from Oil Received		7.74	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
< 1980		Sampling/ Hexane Unloading Port 19EX		--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
< 1980		Oil Tanks (non-deodorized oil) 24EX8		--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Subtotal for Hexane Extraction System 24EX (Part 70) ¹													6.69	29.32	29.32	11.05				
Subtotal for Hexane Extraction System 24EX (PSD and CAM)					3,665	3,665	1,382						6.69	29.32	29.32	11.05	78.58	78.58	1381.57	

All PM emissions equal PM₁₀ and PM_{2.5} emissions.

Unrestricted Particulate Emission factor is from AP-42, Chapter 9.11 - Vegetable Oil Processing, Section 9.11.1.3, Table 9.11.1-1 (11/95).

1) The cyclones for control should be considered an integral part of the process. For Part 70 applicability, the PTE should be calculated from the After Controls values.

Methodology:

For units that do not employ a control device:

$$\text{Unrestricted PM/PM}_{10}/\text{PM}_{2.5} \text{ (tons/yr)} = \text{Throughput (tons/hr)} \times \text{EF (lb/ton)} \times 8760 \text{ hr/yr} \times 1 \text{ ton}/2000\text{lb}$$

$$\text{Controlled PM/PM}_{10}/\text{PM}_{2.5} \text{ (tons/yr)} = \text{Unrestricted PM/PM}_{10}/\text{PM}_{2.5} \text{ (tons/yr)}$$

For units that employ a control device:

$$\text{Unrestricted PM/PM}_{10}/\text{PM}_{2.5} \text{ (tons/yr)} = \text{Controlled Emission Rate (tons/yr)} / \text{Control Efficiency (\%)}$$

$$\text{Controlled PM (ton/yr)} = \text{Flow rate (dscfm)} \times \text{Grain Loading (gr/dscf)} \times 1 \text{ lb}/7000 \text{ grains} \times 60 \text{ minutes/hr} \times 8760 \text{ hr/yr} \times 1 \text{ ton}/2000 \text{ lb}$$

$$\text{Controlled emissions PM}_{2.5} = 37.7\% \text{ of PM}_{10} \text{ controlled emissions. This was developed using the EPA PM calculator (http://www.epa.gov/ttnchie1/software/pmcalc).}$$

Limited Emissions for PSD purposes are based on permit limits, where applicable, or the unrestricted emissions where there is no PSD minor limit.

Appendix A: Emission Calculations
Hexane Extraction - VOC and HAP Emissions

Company Name: Bunge North America (East), LLC
 Location: 1200 N. 2nd Street, Decatur, Indiana 46733
 SSM No.: 001-35187-00005
 SPM No.: 001-35195-00005
 Permit Reviewer: Laura Spriggs Thompson

Year Installed	Stack ID	Process / Units	SCC	Max Throughput <i>(tons/hr)</i>	VOC/HAP Emissions					
					VOC / HAP EF	Potential to Emit VOC / HAP <i>(tons/yr)</i>	VOC / HAP Control ID #	VOC / HAP Control Efficiency %	Controlled VOC / HAP <i>(tons/yr)</i>	
	24EXA	Hexane Extraction System (Total Hexane Usage) 24EX	3-02-019-99	105.08	130.7 ppm	120.31				hexane from oil use direct hexane
				0.058	61.96% n-hexane	315				
1996	24EX	A Unit 13EXa A pre-DT		109.40	NA	NA	vent system to mineral oil absorber	99%	4.35	
1980		A Unit 13EXb A DT								
1980		A Unit 13EXc A Meal Dryer	3-02-007-89							
1996		B Unit 14EXa B pre-DT								
1980		B Unit 14EXb B DT								
1980		B Unit 14EXc B Meal Dryer	3-02-007-89							
1996		Meal Cooler 21EX	3-02-007-90							
1995		EAST Hexane Storage Tank 24EX4A		--	--	0.83				
2005		WEST Hexane Storage Tank 24EX4B		--	--	0.78				
< 1980		Wastewater System 24EX5		7.36	0.19 ppm	0.01				
1975		Refined Hot Oil Well 24EX6		24.26	74.8 ppm	15.89				
		Hexane Losses from transfer to meal		97.34	138 ppm	117.67				
		Hexane Losses from Oil Received		7.74	130.7 ppm	8.86				
< 1980		Sampling/ Hexane Unloading Port 19EX		--	--	120.00				
< 1980	Oil Tanks (non-deodorized oil) 24EX8		--	--	1.61E+00					
Subtotal for Hexane Extraction System 24EX (Part 70) ¹						435.07			4.35	
Subtotal for Hexane Extraction System 24EX (PSD and CAM)						435.07			4.35	

All VOC is HAP Hexane. VOC/HAPs emission factors based on 2011 Emission Report.
 Max rate of the plant of 3,750 tons/day

Potential to Emit VOC / HAP (ton/yr) = Max Throughput (ton/hr) x VOC / HAP EF (ppm) x (8760 hr/yr) / 1,000,000
 Or
 Potential to Emit VOC / HAP (ton/yr) = Max Throughput (ton/hr) x (8760 hr/yr) x % n-hexane
 Controlled VOC / HAP (ton/yr) = Uncontrolled VOC / HAP (ton/yr) x (1 - Control Efficiency)

Appendix A: Emission Calculations
Natural Gas Combustion for Boilers and Dryers (< 100 MMBtu/hr)

Company Name: Bunge North America (East), LLC
 Location: 1200 N. 2nd Street, Decatur, Indiana 46733
 SSM No.: 001-35187-00005
 SPM No.: 001-35195-00005
 Permit Reviewer: Laura Spriggs Thompson

Unit	ID#	Heat Input Capacity MMBtu/hr	Potential Throughput MMCF/yr	Date Installed	SCC
#2 Geka Boiler	110EO	14.0	122.6	2002	10200602
#3 Steam Generator	108EO	14.0	122.6	1994	10200602
No. 2 Dryer*		7.0	61.3	1995	30200527 & 10200603
Hydrogen Generator Furnace	107EO1	25.2	220.8	1992	
No. 1 Dryer (Berico)*	16EL1	7.0	61.3	1986	30200527 & 10200603
No. 4 Dryer*	17EL1	7.0	61.3	1960s	30200527 & 10200603
No. 5 Dryer*	17EL1	7.0	61.3	1960s	30200527 & 10200603
natural gas boiler	9SP1	99.0	867.2	2012	
		180.2	1,579		

	Pollutant						
	CO	NO _x	PM	PM ₁₀	PM _{2.5}	SO ₂	VOC
Emission Factor in lb/MMCF	84	100.0	1.9	7.6	7.6	0.6	5.5
	130.0	32.0					
#2 Geka Boiler 110EO PTE (ton/yr)	5.15	6.13	0.12	0.47	0.47	0.04	0.34
#3 Steam Generator 108EO PTE (ton/yr)	5.15	6.13	0.12	0.47	0.47	0.04	0.34
No. 2 Dryer* PTE (ton/yr)	3.99	3.07	*	*	*	0.02	0.17
Hydrogen Generator Furnace 107EO1 PTE (ton/yr)	9.27	11.04	0.21	0.84	0.84	0.07	0.61
No. 1 Dryer (Berico)* 16EL1 PTE (ton/yr)	3.99	3.07	*	*	*	0.02	0.17
No. 4 Dryer* 17EL1 PTE (ton/yr)	3.99	3.07	*	*	*	0.02	0.17
No. 5 Dryer* 17EL1 PTE (ton/yr)	3.99	3.07	*	*	*	0.02	0.17
natural gas boiler 9SP1 PTE (ton/yr)	36.42	13.88	0.82	3.30	3.30	0.26	2.38
Total PTE (tons/yr)	71.94	49.44	1.27	5.07	5.07	0.47	4.34

	HAPs - Organics				
	Benzene	Dichlorobenzene	Formaldehyde	n-Hexane	Toluene
Emission Factor in lb/MMCF	2.1E-03	1.2E-03	7.5E-02	1.80	3.4E-03
#2 Geka Boiler 110EO PTE (ton/yr)	1.3E-04	7.4E-05	4.6E-03	0.11	2.1E-04
#3 Steam Generator 108EO PTE (ton/yr)	1.3E-04	7.4E-05	4.6E-03	0.11	2.1E-04
No. 2 Dryer* PTE (ton/yr)	6.4E-05	3.7E-05	2.3E-03	0.06	1.0E-04
Hydrogen Generator Furnace 107EO1 PTE (ton/yr)	2.3E-04	1.3E-04	8.3E-03	0.20	3.8E-04
No. 1 Dryer (Berico)* 16EL1 PTE (ton/yr)	6.4E-05	3.7E-05	2.3E-03	0.06	1.0E-04
No. 4 Dryer* 17EL1 PTE (ton/yr)	6.4E-05	3.7E-05	2.3E-03	0.06	1.0E-04
No. 5 Dryer* 17EL1 PTE (ton/yr)	6.4E-05	3.7E-05	2.3E-03	0.06	1.0E-04
natural gas boiler 9SP1 PTE (ton/yr)	9.1E-04	5.2E-04	3.3E-02	0.78	1.5E-03
Total PTE (tons/yr)	1.7E-03	9.5E-04	5.9E-02	1.42	2.7E-03

	HAPs - Metals				
	Lead	Cadmium	Chromium	Manganese	Nickel
Emission Factor in lb/MMCF	5.0E-04	1.1E-03	1.4E-03	3.8E-04	2.1E-03
#2 Geka Boiler 110EO PTE (ton/yr)	3.1E-05	6.7E-05	8.6E-05	2.3E-05	1.3E-04
#3 Steam Generator 108EO PTE (ton/yr)	3.1E-05	6.7E-05	8.6E-05	2.3E-05	1.3E-04
No. 2 Dryer* PTE (ton/yr)	1.5E-05	3.4E-05	4.3E-05	1.2E-05	6.4E-05
Hydrogen Generator Furnace 107EO1 PTE (ton/yr)	5.5E-05	1.2E-04	1.5E-04	4.2E-05	2.3E-04
No. 1 Dryer (Berico)* 16EL1 PTE (ton/yr)	1.5E-05	3.4E-05	4.3E-05	1.2E-05	6.4E-05
No. 4 Dryer* 17EL1 PTE (ton/yr)	1.5E-05	3.4E-05	4.3E-05	1.2E-05	6.4E-05
No. 5 Dryer* 17EL1 PTE (ton/yr)	1.5E-05	3.4E-05	4.3E-05	1.2E-05	6.4E-05
natural gas boiler 9SP1 PTE (ton/yr)	2.2E-04	4.8E-04	6.1E-04	1.6E-04	9.1E-04
Total PTE (tons/yr)	3.9E-04	8.7E-04	1.1E-03	3.0E-04	1.7E-03
Total HAPs:	1.49				

Notes

All emission factors are based on normal firing.
 MMBtu = 1,000,000 Btu
 MMCF = 1,000,000 Cubic Feet of Gas
 Emission Factors are from AP 42, Chapter 1.4, Tables 1.4-1, 1.4-2, 1.4-3, SCC #1-02-006-02, 1-01-006-02, 1-03-006-02, and 1-03-006-03
 PM emission factor is filterable PM only. PM₁₀ emission factor is filterable and condensable PM₁₀ combined.
 PM_{2.5} emission factor is filterable and condensable PM_{2.5} combined.
 Emission Factors for NO_x: Uncontrolled = 100, Low NO_x Burner = 50, Low NO_x Burners/Flue gas recirculation = 32
 The N₂O Emission Factor for uncontrolled is 2.2. The N₂O Emission Factor for low NO_x burner is 0.64.
 Potential Throughput (MMCF) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1 MMCF/1,000 MMBtu
 Emission (tons/yr) = Throughput (MMCF/yr) x Emission Factor (lb/MMCF)/2,000 lb/ton
 The five highest organic and metal HAPs emission factors are provided above.
 Additional HAPs emission factors are available in AP-42, Chapter 1.4.
 Emission Factors are from AP 42, Table 1.4-2 SCC
 *The dryers are direct fired. The PM, PM10, and PM2.5 emissions are calculated with its respected grain elevator.

Appendix A: Emission Calculations**Storage Tanks**

Company Name: Bunge North America (East), LLC
 Location: 1200 N. 2nd Street, Decatur, Indiana 46733
 SSM No.: 001-35187-00005
 SPM No.: 001-35195-00005
 Permit Reviewer: Laura Spriggs Thompson

Distillate Fuel Oil No. 2 Storage Tanks:

Tank	Number of tanks	Volume (gal)	Throughput (gal)	Standing Losses (lb/yr)	Working Losses (lb/yr)	Total Losses (lb/year)	Tanks VOC/HAP Emissions (tons/yr)
Lagoon	1	200	786	1.04E-01	1.64E-02	1.20E-01	6.02E-05
Steam and Power	1	300	3170	0.00E+00	6.60E-02	6.60E-02	3.30E-05
Elevator	1	250	2636	1.04E-01	5.49E-02	1.59E-01	7.95E-05
EO South Tank Farm	1	500	6422	2.04E-01	1.34E-01	3.37E-01	1.69E-04
Fire Protection	1	500	302	2.11E-01	6.29E-03	2.17E-01	1.09E-04
Fire Protection	2	550	302	2.22E-01	6.25E-03	4.57E-01	2.28E-04
Total VOC/HAP Emissions from Diesel Tanks							6.78E-04

Gasoline Storage Tank:

Tank	Number of tanks	Volume (gal)	Standing Losses (lb/yr)	Working Losses (lb/yr)	Total Losses (lb/year)	Tanks VOC/HAP Emissions (tons/yr)
M&R	1	5564	2.30E+02	4.62E+01	276.2551549	1.38E-01
Total VOC/HAP Emissions from Gasoline Tank						1.38E-01

Total VOC/HAP Emissions:	0.14 ton/yr
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Hexane Storage Tank:

Tank	Number of tanks	Volume (gal)	Standing Losses (lb/yr)	Working Losses (lb/yr)	Total Losses (lb/year)	Tanks VOC/HAP Emissions (tons/yr)
WEST Hexane	1	17,094	5.15E+02	1.04E+03	1550.50	7.75E-01
EAST Hexane	1	22,950	6.28E+02	1.04E+03	1663.47	8.32E-01
Total VOC/HAP Emissions from Hexane Tanks						1.61E+00

The Hexane Emissions from the storage tanks are routed to the stack for the Hexane Extraction System (24EXA), and the emission factors for this Tank information was provided by the source

**Appendix A: Emission Calculations
Cooling Towers**

Company Name: Bunge North America (East), LLC
 Location: 1200 N. 2nd Street, Decatur, Indiana 46733
 SSM No.: 001-35187-00005
 SPM No.: 001-35195-00005
 Permit Reviewer: Laura Spriggs Thompson

	<u>Extraction</u>	<u>Edible Oil</u>	<u>Refined Oil</u>
Density (lbs/gal) =	0.005%	0.006%	0.007%
Total Dissolved Solids (ppm) =	8.35	8.35	8.35
Circulating Water Flow (gal/min) =	1800	1800	1200
	2,350	2,350	1,950

	Unrestricted PTE			
	<i>ton/yr</i>	<i>ton/yr</i>	<i>ton/yr</i>	<i>TOTAL</i>
PM	0.11	0.13	0.08	0.31
PM ₁₀	0.09	0.11	0.07	0.27
PM _{2.5}	0.09	0.11	0.07	0.27

Emission factor are based on the research paper, *Calculating Realistic PM₁₀ Emissions from Cooling Towers*.

PM₁₀ emissions are estimated based on the assumption that 85% of PM is PM₁₀.

PM_{2.5} emissions are estimated based on the assumption that 85% of PM is PM_{2.5}.

Appendix A: Emission Calculations**Vehicle Refueling Operations**

Company Name: Bunge North America (East), LLC
 Location: 1200 N. 2nd Street, Decatur, Indiana 46733
 SSM No.: 001-35187-00005
 SPM No.: 001-35195-00005
 Permit Reviewer: Laura Spriggs Thompson

Vehicle Refueling Operations (Gasoline)

Storage Capacity:	1,300	gallons
Maximum Daily Throughput Capacity:	1,300	gal/day
Maximum Monthly Throughput Capacity:	39,542	gal/month
Maximum Annual Throughput Capacity:	474,500	gal/yr
	30.42	turnovers/month
	365	turnovers/year

Emission Factors (AP 42 Section 5.2, "Transportation and Marketing of Petroleum Liquids", 6/08):

Displacement Losses (uncontrolled)	11.0	lb/ 1000 gal
Displacement Losses (controlled)	1.1	lb/ 1000 gal
Spillage	0.7	lb/ 1000 gal

VOC Emissions:

Displacement Losses (uncontrolled)	2.61	ton/yr
Spillage	0.17	ton/yr

Total Uncontrolled VOC: 2.78 ton/yr

Notes:

Emission Factors for VOC is also for total organic emissions because the methane and ethane content of gasoline evaporative emissions is negligible. This gasoline tank is not equipped with vapor recovery; therefore, all emissions are uncontrolled.

Methodology:

VOC Emissions (ton/yr) = Emission Factor (lb/1000 gal) x Annual Throughput (gal/yr) / 1000 / 2000 lb/ton

Vehicle Refueling Operations (NonGasoline)

Storage Capacity:	10,500	gallons
Maximum Daily Throughput Capacity:	10,500	gal/day
Maximum Monthly Throughput Capacity:	23,000	gal/month
Maximum Annual Throughput Capacity:	276,000	gal/yr
Maximum No. of Turnovers	2.19	turnovers/month
	26	turnovers/year

Emission Factors (AP 42 Section 5.2, "Transportation and Marketing of Petroleum Liquids", 6/08):

Displacement Losses (uncontrolled)	11.0	lb/ 1000 gal
Displacement Losses (controlled)	1.1	lb/ 1000 gal
Spillage	0.7	lb/ 1000 gal

VOC Emissions:

Displacement Losses (uncontrolled)	1.52	ton/yr
Spillage	0.10	ton/yr

Total Uncontrolled VOC: 1.61 ton/yr

Notes:

Emission Factors for VOC is also for total organic emissions because the methane and ethane content is negligible. This tank is not equipped with vapor recovery; therefore, all emissions are uncontrolled.

Methodology:

VOC Emissions (ton/yr) = Emission Factor (lb/1000 gal) x Annual Throughput (gal/yr) / 1000 / 2000 lb/ton

Total Uncontrolled V

4.39 ton/yr

**Appendix A: Emission Calculations
Degreasing Operations**

Company Name: Bunge North America (East), LLC
 Location: 1200 N. 2nd Street, Decatur, Indiana 46733
 SSM No.: 001-35187-00005
 SPM No.: 001-35195-00005
 Permit Reviewer: Laura Spriggs Thompson

145 gal/yr, total no control

Material	Density lbs/gal	Vapor Pressure	Weight Organic %	Potential VOC tons/yr
Crystal Clean 142+ Mineral Spirits	6.7	< 1.0 mmHg @ 20 C; <0.1 psia @ 38 C	100%	0.49

Composition of Material: 100% aliphatic petroleum distillates (CAS No. 64742-47-8)
 There are No HAP emissions from this material.
 Potential VOC Before Controls (tons/yr) = Density (lbs/gal) x % VOC x Material Usage (gal/yr) x (1 ton/2000 lbs)



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

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Michael R. Pence
Governor

Thomas W. Easterly
Commissioner

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

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

DATE: April 14, 2015

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

SUBJECT: Final Decision
Title V – Significant Permit Modification
001-35195-00005

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

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

A copy of the final decision and supporting materials has also been sent via standard mail to:
Keith Sanders, Facility Manager / Bunge North America (East) LLC
OAQ Permits Branch Interested Parties List

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

Final Applicant Cover letter.dot 6/13/2013



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Michael R. Pence
Governor

Thomas W. Easterly
Commissioner

April 14, 2015

TO: Decatur Public Library

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

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

Applicant Name: Bunge North America (East) LLC
Permit Number: 001-35195-00005

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

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

Enclosures
Final Library.dot 6/13/2013

Mail Code 61-53

IDEM Staff	AWELLS 4/14/2015 Bunge North America (East), LLC 001-35195-00005		Type of Mail: CERTIFICATE OF MAILING ONLY	AFFIX STAMP HERE IF USED AS CERTIFICATE OF MAILING
Name and address of Sender		Indiana Department of Environmental Management Office of Air Quality – Permits Branch 100 N. Senate Indianapolis, IN 46204		

Line	Article Number	Name, Address, Street and Post Office Address	Postage	Handing Charges	Act. Value (If Registered)	Insured Value	Due Send if COD	R.R. Fee	S.D. Fee	S.H. Fee	Rest. Del. Fee	Remarks
1		Mike Sorg Bunge North America (East), LLC 1200 N 2nd Street Decatur IN 46733-1160 (Source CAATS) VIA CERTIFIED MAIL USPS										
2		Keith Sanders Facility Manager Bunge North America (East), LLC 1200 N 2nd Street Decatur IN 46733-1160 (RO CAATS)										
3		Adams County Commissioners 313 West Jefferson Street Decatur IN 46733 (Local Official)										
4		Adams County Health Department County Svcs Complex, 313 W. Jefferson # 314 Decatur IN 46733-1673 (Health Department)										
5		Decatur Public Library 128 S 3rd St Decatur IN 46733-1691 (Library)										
6		Decatur City Council and Mayors Office 225 W. Monroe St. Decatur IN 46733 (Local Official)										
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