INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
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Eric J. Holcomb
Governor
Brian C. Rockensuess
Commissioner

To:	Interested Parties
Date:	July 1, 2024
From:	Jenny Acker, Chief Permits Branch Office of Air Quality
Source Name:	Bunge North America East LLC
Permit Level:	TV Significant Source Modification (Minor PSD/EO)
Permit Number:	001-47589-00005
Source Location:	1200 N 2nd St, Decatur, IN 46733
Type of Action Taken:	Modification at an existing source

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, choose Search Option **by Permit Number**, then enter permit 47589. This search will also provide the application received date, **draft permit** public notice start and end date, and **final** permit issuance date.

The final decision is also available via IDEM's Virtual File Cabinet (VFC). Please go to: https://www.IN.gov/idem and enter VFC in the search box. You will then have the option to search for permit documents using a variety of criteria.

(continues on next page)

If you would like to request a paper copy of the permit document, please contact IDEM's Office of Records Management:

IDEM - Office of Records Management
Indiana Government Center North, Room 1207
100 North Senate Avenue
Indianapolis, IN 46204
Phone: (317) 232-8667
Fax: (317) 233-6647
Email: IDEMFILEROOM@idem.in.gov

Pursuant to IC 13-15-5-3, this permit is effective immediately, unless a petition for stay of effectiveness is filed and granted according to IC 13-15-6-3, and may be revoked or modified in accordance with the provisions of IC 13-15-7-1.

If you wish to challenge this decision, IC 4-21.5-3 and IC 13-15-6-1 require that you file a petition for administrative review. This petition may include a request for stay of effectiveness and must be submitted to the Indiana Office of Administrative Law Proceedings, 100 N. Senate Avenue Suite N802, Indianapolis, IN 46204, **within eighteen (18) calendar days of the mailing of this notice**. The filing of a petition for administrative review is complete on the earliest of the following dates that apply to the filing:

(1) the date the document is delivered to the Indiana Office of Administrative Law Proceedings (OALP) or;
(2) the date of the postmark on the envelope containing the document, if the document is mailed to OALP 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 OALP by private carrier.

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

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

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

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July 1, 2024

Mr. Adam Link
Bunge North America (East), LLC
1200 North 2nd Street
Decatur, IN 46733

Re: 001-47589-00005
Significant Source Modification

Dear Mr. Adam Link:

Bunge North America (East), LLC was issued Part 70 Operating Permit Renewal No. T001-39540-00005 on July 29, 2019 for a stationary grain handling, soybean meal production, and soybean extraction plant located at 1200 N 2nd Street, Decatur, Indiana 46733. An application to modify the source was received on October 27, 2023. Pursuant to the provisions of 326 IAC 2-7-10.5, a Significant Source Modification is hereby approved as described in the attached Technical Support Document.

Pursuant to 326 IAC 2-7-10.5, the following emission units are approved for construction at the source:

(a) One (1) Millfeed storage bin, identified as 22EX, with a maximum capacity of 156.3 tons/hr, using baghouse replaced in 2022 as control and exhausting to stack 22EX.

(b) The following soybean processing equipment together identified as “A” Flaking, 35EX1, approved in 2015 to install a dedicated baghouse (35EX) for PM control, exhausting to stack 35EX.

(1) One (1) flaking roll, #8, #9, #10, and #11, constructed in 2023, having a maximum throughput of 25.26 tons per hour.

(2) One flaking roll, #14, constructed in 1991, moved from “B” flaking to “A” flaking in 2023, having a maximum throughput of 12.5 tons per hour.

(3) One (1) “A” Flaking N/S drag conveyor constructed in 1993, having a maximum throughput of 78 tons per hour.

(4) One (1) “A” Flaking E/W drag conveyor constructed in 1993, having a maximum throughput of 95 tons per hour.

(5) One N/S Run Around drag conveyor constructed in 1984, having a maximum throughput of 120 tons per hour.

(c) Salt conveying, identified as 4SP1, constructed in 1981 and modified in 2023, with a maximum throughput of 25 tons per hour, using a baghouse as control, and exhausting to stack 4SP.

The following construction conditions are applicable to the proposed modification:

General Construction Conditions

1. The data and information supplied with the application shall be considered part of this source modification approval. Prior to any proposed change in construction which may

affect the potential to emit (PTE) of the proposed project, the change must be approved by the Office of Air Quality (OAQ).

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

Effective Date of the Permit

3. Pursuant to IC 13-15-5-3, this approval becomes effective upon its issuance.

Commenced Construction

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

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

Approval to Construct

6. Pursuant to 326 IAC 2-7-10.5(h)(2), this Significant Source Modification authorizes the construction of the new emission unit(s), when the Significant Source Modification has been issued.

Pursuant to 326 IAC 2-7-10.5(m), the emission units constructed under this approval shall not be placed into operation prior to revision of the source's Part 70 Operating Permit to incorporate the required operation conditions.

Pursuant to 326 IAC 2-7-12, operation of the new emission unit(s) is not approved until the Significant Permit Modification has been issued. Operating conditions shall be incorporated into the Part 70 Operating Permit as a Significant Permit Modification in accordance with 326 IAC 2-7-10.5(m)(2) and 326 IAC 2-7-12 (Permit Modification).

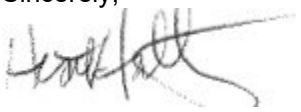
For the purposes of this permitting action, the Significant Permit Modification has been combined with the current Part 70 Operating Permit Renewal. Therefore, operation is not approved until the Part 70 Operating Permit Renewal has been issued.

A copy of the permit is available on the Internet at: http://www.in.gov/ai/appfiles/idem-caats/. A copy of the application and permit is also available via IDEM's Virtual File Cabinet (VFC). To access VFC, please go to: https://www.in.gov/idem/ and enter VFC in the search box. You will then have the option to search for permit documents using a variety of criteria. For additional information about air permits and how the public and interested parties can participate, refer to the IDEM Air Permits page on the Internet at: https://www.in.gov/idem/airpermit/public-participation/; and the Citizens' Guide to IDEM on the Internet at: https://www.in.gov/idem/resources/citizens-guide-to-idem/.

This decision is subject to the Indiana Administrative Orders and Procedures Act - IC 4-21.5-3-5.

If you have any questions regarding this matter, please contact Maddison Hite, 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) 233-4972 or (800) 451-6027, and ask for Maddison Hite or (317) 233-4972.

Sincerely,



Heath Hartley, Section Chief
Permits Branch
Office of Air Quality

Attachments: Significant Source Modification and Technical Support Document

cc: File - Adams County
Adams County Health Department
U.S. EPA, Region 5
Compliance and Enforcement Branch

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Significant Source Modification to a Part 70 Source

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 construct subject to the conditions contained herein, the source described in Section A (Source Summary) of this permit.

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

Significant Source Modification No.: 001-47589-00005 Master Agency Interest ID.: 14715	
Issued by: Heath Hartley, Section Chief Permits Branch Office of Air Quality	Issuance Date: July 1, 2024

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Attachment F: 40 CFR 63, Subpart ZZZZ
Attachment G: 40 CFR 63, Subpart DDDDD

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 extraction plant.

Source Address:	1200 N 2nd Street, Decatur, Indiana 46733
General Source Phone Number:	(260) 724-2101
SIC Code:	2075 (Soybean Oil Mills) 2079 (Shortening, Table Oils, Margarine, and Other Edible Fats and Oils, not Elsewhere Classified) 5153 (Grain and Field Beans)
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 (250,000,000) British Thermal units per hour heat input, is 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 and oil suppression as control, and exhausting to stack 1EL.

Under 40 CFR 60, Subpart DD, this unit is considered an affected facility.

(b) The following grain elevator cleaning/screening equipment, collectively identified as 2EL4, using a baghouse as control, and exhausting to stack 2EL4, consisting of:

(1) One (1) Megatex screener, constructed in 2013, with a maximum throughput of 300 tons per hour, using a baghouse as control, and exhausting to stack 2EL4.

(2) One (1) #1 scalperator, constructed in 2011 and modified in 2013, with a maximum throughput of 120 tons per hour, using a baghouse as control, and exhausting to stack 2EL4.

(3) One (1) #2 scalperator, constructed in 2011 and modified in 2013, with a maximum throughput of 120 tons per hour, using a baghouse as control, and exhausting to stack 2EL4.

Under 40 CFR 60, Subpart DD, these units are considered affected facilities.

(c) The following grain elevator East Work House Components, collectively identified as 2EL1, with a maximum throughput of 270 tons per hour (bottlenecked to 240 tons per hour), using a baghouse as control, and exhausting to stack 2EL, and consisting of:

(1) One (1) ext. screening bin, constructed prior to 1977;
(2) One (1) screening bin, constructed prior to 1977;
(3) One (1) solvent screening leg, constructed prior to 1977;
(4) One (1) #1 leg, constructed prior to 1977;
(5) One (1) #2 leg, constructed prior to 1977;
(6) One (1) #3 leg, constructed prior to 1977;
(7) One (1) west to east Hi-Roller, constructed prior to 1977;
(8) One (1) west to east belt loader, constructed prior to 1977;
(9) One (1) dry bean leg, constructed prior to 1977;
(10) One (1) #1 dryer Hi-Roller, constructed prior to 1977;
(11) One (1) weaver's belt, constructed prior to 1977; and
(12) One (1) 102 belt, constructed prior to 1977.

(d) One (1) hammermill, identified as 2EL2, constructed in 2010, with a maximum capacity of 5.6 tons per hour, using a baghouse as control, and exhausting to stack 2EL2.

(e) One (1) pneumatic conveying system, identified as 2EL3, constructed in 2010, with a maximum capacity of 5.6 tons per hour, using a baghouse as control, and exhausting to stack 22EX2.

(f) The following grain elevator components, collectively identified as 5EL1, with a maximum throughput of 900 tons per hour, each, using a baghouse and oil suppressant as control, exhausting to stack 5EL, and 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.

(g) 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 as control, with no aspiration.

(h) The following grain elevator components, collectively identified as 10EL1, with a maximum throughput of 720 tons per hour, each, using a baghouse (replaced in 2015) and using oil suppressant as control, and exhausting to stack 10EL, consisting of:

(1) One (1) rail loadout, constructed in 1984.

Under 40 CFR 60, Subpart DD, these units are considered affected facilities.

(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.

(i) The following grain elevator components, collectively identified as 14EL1, with a maximum throughput of 600 tons per hour, each, using a baghouse and oil suppressant as control, exhausting to stack 14EL, and 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;

(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 and oil suppression as control, and exhausting to stack 20EL.

Under 40 CFR 60, Subpart DD, this unit is considered an affected facility.

(k) Silo bin vents, identified as 3EL1, constructed prior to 1977, with a combined maximum throughput of 900 tons per hour, using soybean oil as a dust suppressant, and exhausting to vent 3EL.

(l) Silo direct loadout, identified as 4EL1, constructed prior to 1977, with a maximum throughput of 270 tons per hour, using soybean oil as a dust suppressant.

(m) One (1) south tripper buggy, one (1) south galley belt loader, and one (1) north south belt, collectively identified as 6EL1, constructed prior to 1977, with a maximum throughput of 900 tons per hour, each, using a baghouse and oil suppressant as 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 as 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 and oil suppression as 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 and oil suppressant as 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, collectively identified as 13EL1, all constructed prior to 1977, with a maximum throughput of 360 tons per hour, each, using a baghouse and oil suppressant as 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 and oil suppression as control, and exhausting to stack 15EL.

(s) One (1) Diesel Fuel-fired, VacBoss Portable Material Transfer System, identified as 21EL1, constructed in 2020, with a maximum capacity of 180 tons per hour, used to transfer grain and grain by-products from storage (railcars, silos, tanks, and buildings) into trucks, using no control, and exhausting to atmosphere.

Under 40 CFR 60, Subpart DD, this unit is considered an affected facility.

(t) Salt conveying, identified as 4SP1, constructed in 1981 and modified in 2023, with a maximum throughput of 25 tons per hour, using a baghouse as control, and exhausting to stack 4SP.

(u) The following soybean processing equipment together identified as “B” Flaking, 34EX1, approved in 2015 to replace baghouse (1EX) with a more efficient baghouse (34EX) for PM control, exhausting to stack 34EX.

(1) Six (6) flaking rolls, #1, #2, #3, #4, #5 and #6, constructed in 1991, each with a maximum throughput of 12.5 tons per hour (75 tons per hour total).
(2) One (1) "B" Flaking N/S drag conveyor constructed in 1991, with a maximum throughput of 78 tons per hour.
(3) One (1) "B" Flaking E/W drag conveyor constructed in 1980, with a maximum throughput of 95 tons per hour.

(v) The following soybean processing equipment together identified as "A" Flaking, 35EX1, approved in 2015 to install a dedicated baghouse (35EX) for PM control, exhausting to stack 35EX.

(1) Four (4) flaking rolls, #8, #9, #10, and #11, constructed in 2023, each with a maximum throughput of 25.26 tons per hour.
(2) One flaking roll, #14, constructed in 1991, moved from "B" flaking to "A" flaking in 2023, having a maximum throughput of 12.5 tons per hour.
(3) One (1) "A" Flaking N/S drag conveyor constructed in 1993, having a maximum throughput of 78 tons per hour.
(4) One (1) "A" Flaking E/W drag conveyor constructed in 1993, having a maximum throughput of 95 tons per hour.
(5) One N/S Run Around drag conveyor constructed in 1984, having a maximum throughput of 120 tons per hour.

(w) The following soybean processing equipment, together identified as 4EX1, with a maximum throughput of 156.3 tons per hour, each, sharing a baghouse with 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.

(x) 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 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.

(y) 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.

(z) Hot dehulling equipment, identified as 5EX2, constructed in 1991, with a maximum throughput of 156.3 tons per hour, approved in 2015 to replace existing wet scrubber with a baghouse (33EX) for PM control, and exhausting to stack 33EX.

(aa) 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.

(bb) 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.

(cc) 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.

(dd) 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.

(ee) 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.

(ff) 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.

(gg) 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.

(hh) 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 outdoors.

(ii) One (1) bean bowl truck loadout, identified as 16EX4, constructed in 1982, with a maximum capacity of 250 tons per hour, with no control, and exhausting outdoors.

(jj) 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.

(kk) 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.

(ll) 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, this unit is considered an existing affected source.

(mm) 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. 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.

(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.

(3) 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.

(4) One (1) wastewater system, identified as 24EX5, constructed prior to 1980, containing traces of hexane, exhausting to the extraction hot water separation pit.

(5) One (1) refined oil hot well, identified as 24EX6, constructed in 1975.

(6) One (1) sampling /hexane unloading port, identified as 24EX7.

(7) Oil tanks containing non-deodorized oil, identified as 24EX8, venting to the atmosphere.

Under 40 CFR 63, Subpart GGGG, these units are considered affected facilities.

(nn) 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.

(oo) One (1) totally enclosed conveyor, identified as 32EX2, approved in 2009 for construction, with a maximum rate of 10 tons per hour.

(pp) One (1) Millfeed storage bin, identified as 22EX, with a maximum capacity of 156.3 tons/hr, using baghouse replaced in 2022 as control and exhausting to stack 22EX.

(qq) 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, this unit is considered a new affected facility.
Under 40 CFR 63, Subpart DDDDD, this unit is considered a new affected facility.

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.

(b) Stationary fire pumps, as follows;

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

Under 40 CFR 63, Subpart ZZZZ, these fire pump engines are considered affected facilities.

(2) One (1) stationary diesel-fired emergency fire pump engine, permitted in 2019, with a maximum power output rate of 305 hp.

Under 40 CFR 60, Subpart IIII, this fire pump engine is considered an affected facility.
Under 40 CFR 63, Subpart ZZZZ, this fire pump engine is considered a new affected facility.

(3) One (1) stationary diesel-fired emergency fire pump engine constructed in 2019 and permitted in 2024, with a maximum power output rate of 305 hp.

Under 40 CFR 60, Subpart IIII, this fire pump engine is considered an affected facility.
Under 40 CFR 63, Subpart ZZZZ, this fire pump engine is considered a new affected facility.

(c) One (1) fire pump diesel fuel storage tank, permitted in 2019, with a capacity of 500 gallons.

(d) Two (2) fire pump diesel fuel storage tanks, permitted in 2024, with a capacity of 550 gallons, each.

(e) One (1) natural gas fired grain dryer #1, identified as 16EL1, constructed in 1986, with a maximum capacity of 75 tons per hour and a maximum heat input capacity of 7 MMBtu/hr, using self-cleaning screens for PM control, and exhausting to stack 16EL.

Under 40 CFR 60, Subpart DD, this unit is considered an affected facility.

(f) 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.

(g) 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, this unit is considered an affected facility.
Under 40 CFR 63, Subpart DDDDD, this unit is considered an existing affected source.

(h) 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, this unit is considered an affected facility.
Under 40 CFR 63, Subpart DDDDD, this unit is considered an existing affected source.

(i) 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.

(j) 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.

Under 40 CFR 60, Subpart DD, this unit is considered an affected facility.

(k) 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.

(l) 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.

(m) 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.

(n) 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.

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, as defined in 326 IAC 2-7-1(21):

(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 liquefied petroleum gas, or butane-fired combustion sources with heat input equal to or less than six million (6,000,000) British thermal units per hour.

(c) Combustion source flame safety purging on start-up.

(d) A gasoline fuel transfer and dispensing operation handling less than or equal to 1,300 gallons per day, such as filling of tanks, locomotives, automobiles, having a storage capacity less than or equal to 10,500 gallons.

(e) A petroleum fuel, other than gasoline, dispensing facility having a storage capacity less than or equal to 10,500 gallons, and dispensing less than or equal to 23,000 gallons per month.

(f) Vessels storing lubricating oils, hydraulic oils, machining oils, and machining fluids.

(g) Machining where an aqueous cutting coolant continuously floods the machining interface.

(h) Degreasing operations that do not exceed 145 gallons per 12 months, and not subject to 326 IAC 20-6.

(i) Cleaners and solvents characterized as follows:

(1) having a vapor pressure equal to or less than 2 kPa; 15 mmHg; or 0.3 psi measured at 38 degrees C (100°F); or

(2) having a vapor pressure equal to or less than 0.7 kPa; 5 mmHg; or 0.1 psi measured at 20 degrees C (68°F); the use of which for all cleaners and solvents combined does not exceed 145 gallons per 12 months.

(j) Closed loop heating and cooling systems.

(k) Activities associated with the treatment of wastewater streams with an oil and grease content less than or equal to 1% by volume.

(l) Water based adhesives that are less than or equal to 5% by volume of VOCs, excluding HAPs.

(m) Noncontact cooling tower systems with natural draft cooling towers not regulated under a NESHAP.

(n) Replacement or repair of electrostatic precipitators, bags in baghouses, and filters in other filtrations equipment.

(o) Heat exchanger cleaning and repair.

(p) Process vessel degreasing and cleaning to prepare for internal repairs.

(q) Underground conveyors.

(r) Coal bunker and coal scale exhausts and associated dust collector vents.

(s) Asbestos abatement projects regulated by 326 IAC 14-10.

(t) Purging of gas lines and vessels that is related to routine maintenance and repair of buildings, structures, or vehicles at the source where air emissions from those activities would not be associated with any production process.

(u) Equipment used to collect any material that might be released during a malfunction, process upset, or spill cleanup, including catch tanks, temporary liquid separators, tanks, and fluid handling equipment.

(v) Blowdown for any of the following: sight glass, boiler, compressors, pumps, and cooling tower.

(w) Purge double block and bleed valves.

(x) Filter or coalescer media changeout.

(y) Vents from ash transport systems not operated at positive pressure.

(z) A laboratory as defined in 326 IAC 2-7-1(21)(D).

(aa) Emission units with PM and PM10 emissions less than five (5) tons per year, SO2, NOx, and VOC emissions less than ten (10) tons per year, CO emissions less than twenty-five (25) tons per year, lead emissions less than two-tenths (0.2) tons per year, single HAP emissions less than one (1) ton per year, and combination of HAPs emissions less than two and a half (2.5) tons per year, 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, T001-47174-00005, 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 5
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 T001-47174-00005 and issued pursuant to permitting programs approved into the state implementation plan have been either:

(1) incorporated as originally stated,

(2) revised under 326 IAC 2-7-10.5, or

(3) deleted under 326 IAC 2-7-10.5.

(b) Provided that all terms and conditions are accurately reflected in this combined permit, all previous registrations and permits are superseded by this combined new source review and part 70 operating permit.

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

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

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

(a) This permit may be modified, reopened, revoked and reissued, or terminated for cause. The filing of a request by the Permittee for a Part 70 Operating Permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any condition of this permit. [326 IAC 2-7-5(6)(C)] The notification by the Permittee does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(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 5
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 317-233-8590 (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(c).

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

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 start-up.

(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(11)] [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 [40 CFR 64][326 IAC 3-8][326 IAC 2-7-5] [326 IAC 2-7-6]

(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 Quality Improvement Plan (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)(c) 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]

(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] [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:

(a) Truck Dump #2, identified as 1EL1, constructed in 1980, with a maximum capacity of 600 tons per hour, using a baghouse and oil suppression as control, and exhausting to stack 1EL.

Under 40 CFR 60, Subpart DD, this unit is considered an affected facility.

(b) The following grain elevator cleaning/screening equipment, collectively identified as 2EL4, using a baghouse as control, and exhausting to stack 2EL4, consisting of:

(1) One (1) Megatex screener, constructed in 2013, with a maximum throughput of 300 tons per hour, using a baghouse as control, and exhausting to stack 2EL4.
(2) One (1) #1 scalperator, constructed in 2011 and modified in 2013, with a maximum throughput of 120 tons per hour, using a baghouse as control, and exhausting to stack 2EL4.
(3) One (1) #2 scalperator, constructed in 2011 and modified in 2013, with a maximum throughput of 120 tons per hour, using a baghouse as control, and exhausting to stack 2EL4.

Under 40 CFR 60, Subpart DD, these units are considered affected facilities.

(c) The following grain elevator East Work House Components, collectively identified as 2EL1, with a maximum throughput of 270 tons per hour (bottlenecked to 240 tons per hour), using a baghouse as control, and exhausting to stack 2EL, and consisting of:

(1) One (1) ext. screening bin, constructed prior to 1977;
(2) One (1) screening bin, constructed prior to 1977;
(3) One (1) solvent screening leg, constructed prior to 1977;
(4) One (1) #1 leg, constructed prior to 1977;
(5) One (1) #2 leg, constructed prior to 1977;
(6) One (1) #3 leg, constructed prior to 1977;
(7) One (1) west to east Hi-Roller, constructed prior to 1977;
(8) One (1) west to east belt loader, constructed prior to 1977;
(9) One (1) dry bean leg, constructed prior to 1977;
(10) One (1) #1 dryer Hi-Roller, constructed prior to 1977;
(11) One (1) weaver's belt, constructed prior to 1977; and
(12) One (1) 102 belt, constructed prior to 1977.

(d) One (1) hammermill, identified as 2EL2, constructed in 2010, with a maximum capacity of 5.6 tons per hour, using a baghouse as control, and exhausting to stack 2EL2.

(e) One (1) pneumatic conveying system, identified as 2EL3, constructed in 2010, with a maximum capacity of 5.6 tons per hour, using a baghouse as control, and exhausting to stack 22EX2.

(f) The following grain elevator components, collectively identified as 5EL1, with a maximum throughput of 900 tons per hour, each, using a baghouse and oil suppressant as control, exhausting to stack 5EL, and 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.

(g) 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 as control, with no aspiration.

(h) The following grain elevator components, collectively identified as 10EL1, with a maximum throughput of 720 tons per hour, each, using a baghouse (replaced in 2015) and using oil suppressant as control, and exhausting to stack 10EL, consisting of:

(1) One (1) rail loadout, constructed in 1984.

Under 40 CFR 60, Subpart DD, these units are considered affected facilities.

(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.

(i) The following grain elevator components, collectively identified as 14EL1, with a maximum throughput of 600 tons per hour, each, using a baghouse and oil suppressant as control, exhausting to stack 14EL, and 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;

(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 as control, and exhausting to stack 20EL.

Under 40 CFR 60, Subpart DD, this unit is considered an affected facility.

(s) One (1) Diesel Fuel-fired, VacBoss Portable Material Transfer System, identified as 21EL1, constructed in 2020, with a maximum capacity of 180 tons per hour, used to transfer grain and grain by-products from storage (railcars, silos, tanks, and buildings) into trucks, using no control, and exhausting to atmosphere.

Under 40 CFR 60, Subpart DD, this unit is considered an affected facility.

(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) In order to render the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) not applicable, the Permittee shall comply with the following:

(1) The amount of soybean grains processed through extraction 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.

Compliance with these limits combined with the PM and PM10 limits in Condition D.2.1, shall limit the potential to emit from the grain elevator, 19EL1, 34EX1, 4EX1, 4EX3, 5EX1, 5EX3, 5EX2, 24EX1, 24EX2, 23EX1, and 6EX1, issued under permitting actions CP 001-4673-00005, issued May 10, 1996 and AA 001-9930-00005, issued September 17, 1998 of PM to less than twenty-five (25) tons per twelve (12) consecutive month period and PM_{10} to less than fifteen (15) tons per twelve (12) consecutive month period, each, and shall render the requirements of 326 IAC 2-2 (PSD) not applicable.

(b) In order to render the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) not applicable, the Permittee shall comply with the following:

(1) The PM/PM10 emissions from the hammermill plenum baghouse filter, Unit ID 2EL2, shall not exceed 0.17 pounds per hour.

(2) The PM/PM10 emissions from the screenings pneumatic conveyor baghouse filter, Unit ID 2EL3, shall not exceed 0.03 pounds per hour.

Compliance with these limits shall limit the potential to emit from PM and PM_{10}, issued under permitting action SSM No. 001-29347-00005, to less than twenty-five (25) tons per twelve (12) consecutive month period of PM and less than fifteen (15) tons per twelve (12) consecutive month period of PM_{10}, each, and shall render the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) not applicable.

(c) In order to render the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) not applicable, the Permittee shall comply with 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.

(3) The PM2.5 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 the Megatex screener, #1 scalperator, and #2 scalperator, issued under permitting action SSM No. 001-30622-00005, of PM to less than twenty-five (25) tons per twelve (12) consecutive month period, PM_{10} to less than fifteen (15) tons per twelve (12) consecutive month period, and $PM_{2.5}$ to less than ten (10) tons per twelve (12) consecutive month period, each, and shall render the requirements of 326 IAC 2-2 (PSD) not applicable.

(d) In order to render the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) not applicable, the Permittee shall comply with the following:

(1) The combined amount of grain processed by the VacBoss Portable Material Transfer System, 21EL1, (including the amount of grain loaded onto trucks), shall be limited to less than 270,000 tons per twelve (12) consecutive month period, with compliance determined at the end of each month, and

(2) The PM emissions from the VacBoss Portable Material Transfer System, 21EL1, shall not exceed 0.086 pounds per ton of grain processed.

(3) The PM10 emissions from the VacBoss Portable Material Transfer System, 21EL1, shall not exceed 0.029 pounds per ton of grain processed.

(4) The PM2.5 emissions from the VacBoss Portable Material Transfer System, 21EL1, shall not exceed 0.0049 pounds per ton of grain processed.

Compliance with these limits combined with the PM limits from the Condition D.1.1(a)(1), shall limit the potential to emit of the VacBoss Portable Material Transfer System, issued under permitting action SSM No. 001-42965-00005, of PM to less than twenty-five (25) tons per twelve (12) consecutive month period, PM10 to less than fifteen (15) tons per twelve (12) consecutive month period, PM2.5 to less than ten (10) tons per twelve (12) consecutive month period, each, and shall render the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) not applicable.

D.1.2 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:

Summary Process Weight Rate Limits			
Emission Unit ID	**Process / Emission Unit**	**P (ton/hr)**	**E (lb/hr)**
1EL1	Truck Dump #2	600	71.16
2EL4	Megatex Screener	300	63.00
	#1 Scalperator	120	53.13
	#2 Scalperator	120	53.13
2EL1	Ext. Screening Bin	240	60.50
	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	Hammermill (2EL2)	5.6	13.00
2EL3	Pneumatic conveying system (2EL3)	5.6	13.00
5EL1	North Tripper Buggy (5EL1)	900	76.23
	North Galley Belt Loader		
	East West Belt		
	Bin 102		
8EL1	North west receiving house enclosed conveyor	360	65.09
10EL1	Rail loadout	720	73.41
	Rail receiving		
	North Leg		
	South Leg		
14EL1	Jumbo silo east galley belt	600	71.16
	Jumbo silo west galley belt		
	Jumbo silo crossover galley belt		
20EL1	Truck Dump #7	450	67.70
21EL1	Diesel fuel-fired Vacboss portable transfer system	180	57.37

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:

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

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

D.1.3 Preventive Maintenance Plan [326 IAC 2-7-5(12)]

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

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

D.1.4 Particulate Control

(a) In order to assure compliance with Conditions D.1.1 and D.1.2 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 assure compliance with Conditions D.1.1 and D.1.2, dust control oil shall be applied to all grain received at the dump pits (1EL1, 20EL1) and north west receiving house conveyor (8EL1) and grain elevator components (10EL1).

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

D.1.5 Testing Requirements [326 IAC 2-1.1-11]

(a) In order to demonstrate compliance with Condition D.1.1(c)(1) and (c)(2), and D.1.2, the Permittee shall perform PM and PM10 testing of the baghouse exhaust, 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. PM10 includes filterable and condensable PM.

(b) In order to demonstrate compliance with Condition D.1.1(b), the Permittee shall perform PM and PM10 testing of the hammermill plenum baghouse filter, 2EL2, utilizing methods as approved by the Commissioner at least once every five (5) years from the date of the most recent valid compliance demonstration. PM10 includes filterable and condensable PM.

(c) 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.

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

D.1.6 Visible Emissions Notations

(a) Visible emission notations of grain handling (2EL, 2EL2, 2EL4, 22EX2, 5EL) stack exhausts 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 and 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.1.7 Visible Emissions Notations [40 CFR 64 (CAM)]

(a) Visible emission notations of grain handling (1EL, 10EL, 14EL, 20EL) stack exhausts 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 and 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 Broken or Failed Bag Detection

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

Bag failure 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 Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-19]

D.1.9 Record Keeping Requirements

(a) To document the compliance status with Condition D.1.1(a)(1), the Permittee shall maintain monthly records of the amount of soybean grains processed through extraction.

(b) To document the compliance status with Conditions D.1.1(d)(1), the Permittee shall maintain records of the combined amount of grain processed by the VacBoss Portable Material Transfer System, 21EL1, (including the amount of grain loaded onto trucks), each month and each compliance period.

(c) To document the compliance status with Condition D.1.6 and D.1.7, the Permittee shall maintain records of daily visible emission notations of the baghouse(s) 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).

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

D.1.10 Reporting Requirements

A quarterly report of the grain processed and a quarterly summary of the information to document the compliance status with D.1.1(a)(1) and D.1.1(d)(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:

(k) Silo bin vents, identified as 3EL1, constructed prior to 1977, with a combined maximum throughput of 900 tons per hour, using soybean oil as a dust suppressant, and exhausting to vent 3EL.

(l) Silo direct loadout, identified as 4EL1, constructed prior to 1977, with a maximum throughput of 270 tons per hour, using soybean oil as a dust suppressant.

(m) One (1) south tripper buggy, one (1) south galley belt loader, and one (1) north south belt, collectively identified as 6EL1, constructed prior to 1977, with a maximum throughput of 900 tons per hour, each, using a baghouse and oil suppressant as control, and exhausting to stack 6EL.

(n) One (1) southwest receiving house enclosed conveyor, identified as 7EL1, constructed prior to 1977, with a maximum throughput of 360 tons per hour, using oil suppressant as 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 as 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 and oil supressant as 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, collectively identified as 13EL1, all constructed prior to 1977, with a maximum throughput of 360 tons per hour, each, using a baghouse and oil suppressant as 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 as control, and exhausting to stack 15EL.

(t) Salt conveying, identified as 4SP1, constructed in 1981 and modified in 2023, with a maximum throughput of 25 tons per hour, using a baghouse as control, and exhausting to stack 4SP.

(u) The following soybean processing equipment together identified as “B” Flaking, 34EX1, approved in 2015 to replace baghouse (1EX) with a more efficient baghouse (34EX) for PM control, exhausting to stack 34EX.

(1) Six (6) flaking rolls, #1, #2, #3, #4, #5 and #6, constructed in 1991, each with a maximum throughput of 12.5 tons per hour (75 tons per hour total).
(2) One (1) “B” Flaking N/S drag conveyor constructed in 1991, with a maximum throughput of 78 tons per hour.
(3) One (1) “B” Flaking E/W drag conveyor constructed in 1980, with a maximum throughput of 95 tons per hour.

(v) The following soybean processing equipment together identified as “A” Flaking, 35EX1, approved in 2015 to install a dedicated baghouse (35EX) for PM control, exhausting to stack 35EX.

(1) Four (4) flaking rolls, #8, #9, #10, and #11, constructed in 2023, having a maximum throughput of 25.26 tons per hour.

(2) One flaking roll, #14, constructed in 1991, moved from "B" flaking to "A" flaking in 2023, having a maximum throughput of 12.5 tons per hour.
(3) One (1) "A" Flaking N/S drag conveyor constructed in 1993, having a maximum throughput of 78 tons per hour.
(4) One (1) "A" Flaking E/W drag conveyor constructed in 1993, having a maximum throughput of 95 tons per hour.
(5) One N/S Run Around drag conveyor constructed in 1984, having a maximum throughput of 120 tons per hour.

(w) The following soybean processing equipment, together identified as 4EX1, with a maximum throughput of 156.3 tons per hour, each, sharing a baghouse with 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.

(x) 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 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.

(y) 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.

(z) Hot dehulling equipment, identified as 5EX2, constructed in 1991, with a maximum throughput of 156.3 tons per hour, approved in 2015 to replace existing wet scrubber with a baghouse (33EX) for PM control.

(aa) 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.

(bb) 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.

(cc) 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.

(dd) 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.

(ee) 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.

(ff) 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.

(gg) 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.

(hh) 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 outdoors.

(ii) One (1) bean bowl truck loadout, identified as 16EX4, constructed in 1982, with a maximum capacity of 250 tons per hour, with no control, and exhausting outdoors.

(jj) 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.

(kk) 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.

(mm) 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. 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.

(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.

Under 40 CFR 63, Subpart GGGG, these units are considered affected facilities.

(nn) 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.

(oo) One (1) totally enclosed conveyor, identified as 32EX2, approved in 2009 for construction, with a maximum rate of 10 tons per hour.

(pp) One (1) Millfeed storage bin, identified as 22EX, with a maximum capacity of 156.3 tons/hr, using baghouse replaced in 2022 as control and exhausting to stack 22EX.

Insignificant Activities:

(d) 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.

Under 40 CFR 60, Subpart DD, this unit is considered an affected facility.

(e) 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.

(h) 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.

(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.

Under 40 CFR 60, Subpart DD, this unit is considered an affected facility.

(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]

(a) In order to render the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) not applicable, the Permittee shall comply with the following:

(1) The amount of soybean grains processed through extraction 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 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
34EX1	34EX	0.474	0.474
4EX1, 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
23EX1	23EX	0.021	0.021
6EX1	6EX	2.218	2.218

Compliance with these limits combined with the PM and PM10 limits in Condition D.1.1, shall limit the potential to emit from the grain elevator, 19EL1, 34EX1, 4EX1, 4EX3, 5EX1, 5EX3, 5EX2, 24EX1, 24EX2, 23EX1, and 6EX1, issued under permitting actions CP 001-4673-00005, issued May 10, 1996 and AA 001-9930-00005, issued September 17, 1998 of PM to less than twenty-five (25) tons per twelve (12) consecutive month period and PM_{10} to less than fifteen (15) tons per twelve (12) consecutive month period, each, and shall render the requirements of 326 IAC 2-2 (PSD) not applicable.

(b) In order to render the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) not applicable, the Permittee shall comply with the following:

(1) The PM and PM10 emissions shall be limited as follows:

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

Compliance with these limits shall limit the potential to emit from the soybean meal sizing and grinding operation, 7EX, issued under the SSM No. 001-29100-00005 of PM to less than twenty-five (25) tons per twelve (12) consecutive month period and PM10 to less than fifteen (15) tons per twelve (12) consecutive month period, each, and shall render the requirements of 326 IAC 2-2 (PSD) not applicable.

(c) In order to render the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) not applicable, the Permittee shall comply with the following:

(1) The PM, PM10, and PM2.5 emissions shall not exceed the following:

Emission Unit	EU ID	PM Limit (lb/hr)	PM10 Limit (lb/hr)	PM2.5 Limit (lb/hr)
Millfeed Storage Bin	22EX	0.05	0.05	0.05
Flaking Rolls 'A'	35EX1	0.31	0.31	.31
Salt Conveying	4SP1	0.03	0.03	0.03

Compliance with these limits shall limit the potential to emit from the Millfeed storage bin (22EX), flaking rolls 'A' (35EX1) and salt conveying (4SP1) issued under the SSM No. 001-47589-00005 of PM to less than twenty-five (25) tons per twelve (12) consecutive month period and PM10 to less than fifteen (15) tons per twelve (12) consecutive month period, each, and shall render the requirements of 326 IAC 2-2 (PSD) not applicable.

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:

Summary Process Weight Rate Limits			
Emission Unit ID	Process / Emission Unit	P (ton/hr)	E (lb/hr)
3EL1	Silo Bin Vents	900	76.23
4EL1	Silo Direct Loadout	270	61.82
6EL1	South Tripper Buggy	900	76.3
	South Galley Belt Loader		
	North South Belt		
7EL1	South West receiving house enclosed conveyor	360	65.09
9EL1	Truck Dump #3	900	76.23
12EL1	Truck Dump #5	600	71.16
13EL1	Jumbo Silo east tunnel belt	360	65.09
	Jumbo silo west tunnel belt		
	Jumbo silo crossover tunnel belt		
15EL1	Truck Dump #6	360	65.09
4SP1	Salt Conveying	25	35.43
“B” Flaking, 34EX1	Flaking Rolls (#1-#6)	95	50.76
	“B" Flaking N/S drag Conveyor		
	“B” Flaking E/W		
“A’ Flaking 35EX1	Flaking Roll #8-#11	120	53.12
	Flaking Rolls #14		
	“A” Flaking N/S drag conveyor		
	“A” Flaking E/W drag conveyor		
	N/S Run Around drag conveyor		
4EX1	Whole bean scale	156.3	55.87
	‘A’ whole bean leg		
	‘A’ Surge Bin		
	Whole Bean drag		
	‘B’ surge bin		
4EX3	Hull refining screw conveyor	156.3	55.87
	Hull refining process		
	Hull grinding process		
5EX1	Dehulling equipment	156.3	55.87
5EX2	Hot hulling equipment	156.3	55.87
5EX3	Screening aspiration	156.3	55.87
6EX1	Truck meal loadout and rail meal loadout	150	55.44
7EX1	Meal screener	176	57.13
7EX2 – 7EX5	Four (4) Meal grinders	45, each	43.60, each
9EX1	Leg No. 2	125	53.55
	Mixing Conveyor		
	Bin Drag		
10EX1	Leg No.3	333	64.19
	Tunnel drag		
	Meal loadout drag		
11EX1	Kaolin bin	15	25.16
12EX1	Meal loadout bin	540	69.88
16EX1	Belt to storage bowls	93	50.55
16EX2	Large storage bowl	93	50.55
16EX3	Small storage bowl	93	50.55

16EX4	Bean bowl truck loadout	250	60.96
18EX1	Whole bean bins	156.3	55.87
23EX1	Meal Storage Silos	125	53.55
24EX1	'A' unit	109.4	52.18
24EX2	'B' unit	109.4	52.18
32EX1	Pelletizer/pellet cooler	10	19.18
32EX2	Total enclosed conveyor	10	19.18
22EX	Millfeed storage bin	156.3	55.87
29EX1	Loadout Bin	10	19.18
16EL1	Natural gas-fired grain dryer #1	75	48.43
17EL1	Natural gas-fired grain dryer #4 and #5	150	55.44
19EL1	Natural gas-fired grain dryer #2	60	46.29

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:

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

$E = 55.0 P^{0.11} - 40$ where E = rate of emission in pounds per hour; and
P = 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 - Preventive Maintenance Plan contains the Permittee's obligation with regard to the preventive maintenance plan required by this condition.

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

D.2.4 Particulate Control

(a) In order to assure compliance with Conditions D.2.1 and D.2.2, the baghouses and filters for particulate control shall be in operation and control emissions from the following facilities at all times the associated facility is in operation:

Emission Unit ID	Process / Emission Unit
9EL1	Truck Dump #3
12EL1	Truck Dump #5
13EL1	Jumbo Silo east tunnel belot
	Jumbo silo west tunnel belt
	Jumbo silo crossover tunnel belt
15EL1	Truck Dump #6
4SP1	Salt Conveying
"B" Flaking, 34EX1	Flaking Rolls (#1-#6)
	"B Flaking N/S drag Conveyor
	"B" Flaking E/W
"A' Flaking 35EX1	Flaking Rolls #8, #9, #10, #11
	Flaking Roll #14
	"A" Flaking N/S drag conveyor

	"A" Flaking E/W drag conveyor
	N/S Run Around drag conveyor
4EX1	Whole bean scale
	'A' whole bean leg
	'A' Surge Bin
	Whole Bean drag
	'B' surge bin
4EX3	Hull refining screw conveyor
	Hull refining process
	Hull grinding process
5EX1	Dehulling equipment
5EX2	Hot hulling equipment
5EX3	Screening aspiration
6EX1	Truck meal loadout and rail meal loadout
7EX1	Meal screener
7EX2 – 7EX5	Four (4) Meal grinders
9EX1	Leg No. 2
	Mixing Conveyor
	Bin Drag
10EX1	Leg No.3
	Tunnel drag
	Meal loadout drag
11EX1	Kaolin bin
12EX1	Meal loadout bin
23EX1	Meal Storage Silos
24EX1	'A' unit
24EX2	'B' unit
22EX	Millfeed storage bin

(b) In order to assure compliance with Conditions D.2.1 and D.2.2, dust control oil shall be applied to all grain received at the dump pits (9EL1, 12EL1, 15EL1), silo bin vents (3EL1), silo direct loadout (4EL1) , and south west receiving house enclosed conveyor (7EL1).

(c) In order to assure compliance with Conditions D.2.1 and D.2.2, the self-cleaning screens for particulate control shall be in operation and control emissions from the grain dryers #1, #2, #4, and #5 (16EL1, 19EL1, and 17EL1) at all times that these facilities are in operation.

(d) In order to assure compliance with Condition D.2.2, the cyclone for particulate control shall be in operation at all times and control emissions from the pelletizer/pellet cooler (32EX1) at all times the pelletizer/pellet cooler is in operation.

(e) 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.2.5 Testing Requirements [326 IAC 2-1.1-11]

(a) In order to demonstrate compliance with Condition D.2.1(a)(2), the Permittee shall perform PM and PM10 testing of the hot dehulling equipment, 5EX2, utilizing methods as

approved by the Commissioner at least once every five (5) years from the date of the most recent valid compliance demonstration. PM10 includes filterable and condensable PM.

(b) In order to demonstrate compliance with Condition D.2.1(b)(1), the Permittee shall perform PM and PM10 testing of the meal sizing and grinding operation, 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. PM10 includes filterable and condensable PM.

(c) In order to demonstrate compliance with Condition D.2.1(c)(2), not later than 180 days after the issuance of this Significant Source Modification (001-47589-00005), the Permittee shall perform PM, PM10, and PM2.5 testing of the Flaking Rolls 'A', 35EX1, utilizing methods approved by the commissioner at least once every 5 years from the date of the most recent valid compliance demonstration. PM_{10} and $PM_{2.5}$ includes filterable and condensable PM.

(d) 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.

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

D.2.6 Visible Emissions Notations

(a) Visible emission notations of the following grain handling and grain drying stack exhausts shall be performed once per day during normal daylight operations. A trained employee shall record whether emissions are normal or abnormal:

Stack Exhaust ID	Emission Unit ID	Process / Emission Unit
4SP	4SP1	Salt Conveying
34EX	"B" Flaking, 34EX1	Flaking Rolls (#1-#6)
		"B Flaking N/S drag Conveyor
		"B" Flaking E/W
35EX	"A' Flaking 35EX1	Flaking Roll #8, #9, #10, #11
		Flaking Rolls #14
		"A" Flaking N/S drag conveyor
		"A" Flaking E/W drag conveyor
		N/S Run Around drag conveyor
4EX	4EX1	Whole bean scale
		'A' whole bean leg
		'A' Surge Bin
		Whole Bean drag
		'B' surge bin
	4EX3	Hull refining screw conveyor
		Hull refining process
		Hull grinding process
33EX	5EX2	Hot hulling equipment
5EX	5EX3	Screening aspiration
9EX	9EX1	Leg No. 2
		Mixing Conveyor
		Bin Drag
10EX	10EX1	Leg No.3
		Tunnel drag

		Meal loadout drag
11EX	11EX1	Kaolin bin
12EX	12EX1	Meal loadout bin
23EX	23EX1	Meal Storage Silos
24EX1	24EX1	'A' unit
24EX2	24EX2	'B' unit
22EX	22EX	Millfeed storage bin
29EX	29EX1	Loadout Bin
16EL	16EL1	Natural gas-fired grain dryer #1
17EL	17EL1	Natural gas-fired grain dryer #4 and #5
19EL	19EL1	Natural gas-fired grain dryer #2

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

(a) Visible emission notations of grain handling stack exhausts (9EL, 12EL, 13EL, 15EL, 5EX, 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 and 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 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 has been repaired or replaced. The emissions unit shall be shut down no later than the completion of the processing of the material in the line. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).

Bag failure 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.2.9 Cyclone Failure Detection

In the event that a cyclone malfunction 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 Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-19]

D.2.10 Record Keeping Requirements

(a) To document the compliance status with Condition D.2.1(a)(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.2.6 and D.2.7, the Permittee shall maintain records of daily visible emission notations of the baghouse and cyclone(s) 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).

Section C – General Record Keeping Requirements contains the Permittee’s obligations with regard to the records required by this condition.

D.2.11 Reporting Requirements

A quarterly report of the grain processed and a quarterly summary of the information to document the compliance status with 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:

(ll) 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, this unit is considered an existing affected facility.

(qq) 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, this unit is considered a new affected facility.
Under 40 CFR 63, Subpart DDDDD, this unit is considered a new affected facility.

Insignificant Activities:

(f) 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, this unit is considered an affected facility.
Under 40 CFR 63, Subpart DDDDD, this unit is considered an existing affected source.

(g) 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, this unit is considered an affected facility.
Under 40 CFR 63, Subpart DDDDD, this unit is considered an existing 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 PSD Minor Limits [326 IAC 2-2]

In order to render the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) not applicable, the Permittee shall comply with the following:

(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.3.2(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.

Compliance with these limits shall limit the potential to emit from the boiler, 10SP1, issued under permitting action SSM No. 001-35187-00005, issued March 26, 2015, of NOx to less than forty (40) tons per twelve (12) consecutive month period and shall render the requirements of 326 IAC 2-2 (PSD) not applicable.

D.3.2 Particulate Matter (PM) [326 IAC 6-2-3][326 IAC 6-2-4]

(a) Pursuant to 326 IAC 6-2-3 (Particulate Emissions Limitations for Sources of Indirect Heating) the PM emissions from boiler 3SP1 shall be limited to 0.8 pounds per MMBtu heat input.

(b) Pursuant to 326 IAC 6-2-4 (Particulate Emission Limitations for Sources of Indirect

Heating), the PM emissions from the following units shall be limited to the PM emission limit (Pt) in pounds per MMBtu heat input as specified in the following table:

Emission Unit	Unit ID	Pt (lb/MMBtu)
B & W natural gas-fired boiler	10SP1	0.24
natural gas-fired steam generator	110EO1	0.24
natural gas-fired steam generator #3	108EO1	0.25

D.3.3 Preventive Maintenance Plan [326 IAC 2-7-5(12)]

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

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

D.3.4 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 and 40 CFR 60, Subpart Db.

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

D.3.5 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 Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-19]

D.3.6 Record Keeping Requirements

(a) To document the compliance status with Condition D.3.1(a), the Permittee shall maintain records in accordance with 40 CFR 60.49b(g), as listed in Condition E.1.2(9).

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

D.3.7 Record Keeping Requirements for CEMS [326 IAC 2-7-5(3)(B)] [326 IAC 3-5]

(a) The Permittee shall record the output of the continuous monitoring system(s) lb/MMBtu 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 systems (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.3.8 Reporting Requirements

Pursuant to 40 CFR 60.49b(w), as listed in Condition E.1.2(9), and in order to document the compliance status with Condition D.3.1 for boiler 10SP1, reports specified in 40 CFR 60.49b(h) and (i), as listed in Condition E.1.2(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.3.9 Reporting Requirements for CEMS [326 IAC 2-7-5(3)(A)(iii)] [326 IAC 3-5]

(a) Pursuant to 326 IAC 3-5-5(f)(1), the Permittee shall prepare and submit to IDEM, OAQ a written report for performance audits as follows:

(1) Owners or operators of emissions units required to conduct a:

(A) cylinder gas audit;
(B) relative accuracy test audit; or

on continuous emission monitors shall prepare a written report of the results of the performance audit for each calendar quarter, or for other periods required by the department. The owner or operator shall submit quarterly reports to the department within thirty (30) 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.

(2) The report must contain the information required by 326 IAC 3-5-5(f)(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(c)(4), 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).

SECTION D.4 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

(mm) 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. 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.

(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.

(3) 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.

(4) One (1) wastewater system, identified as 24EX5, constructed prior to 1980, containing traces of hexane, exhausting to the extraction hot water separation pit.

(5) One (1) refined oil hot well, identified as 24EX6, constructed in 1975.

(6) One (1) sampling /hexane unloading port, identified as 24EX7.

(7) Oil tanks containing non deodorized oil, identified as 24EX8, venting to the atmosphere.

(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 Limits [326 IAC 2-2]

In order to render the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) not applicable, the Permittee shall comply with the following:

(a) The hexane usage of all 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.

Compliance with these limits shall limit the potential to emit from the hexane extraction system, issued CP No. (002) 2005 issued on August 23, 1991, of VOC to less than forty (40) tons per twelve (12) consecutive month period, each, and shall render the requirements of 326 IAC 2-2 (PSD) not applicable.

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 - Preventive Maintenance Plan contains the Permittee's obligation with regard to the preventive maintenance plan required by this condition.

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

D.4.3 Record Keeping Requirements

(a) To document the compliance status with Condition D.4.1, the Permittee shall maintain records of the gallons of 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.4.4 Reporting Requirements

A quarterly report of gallons of hexane usage for all of the oil extraction facilities and a quarterly summary of the information to document the compliance status with 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.4.5 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:

Compliance Ratio = Actual Solvent Loss (gal) / 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) To document the compliance status with D.4.5(c), 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, in gallons, for each month.
(3) The solvent loss ratio.

SECTION E.1 NSPS

Emissions Unit Description:

(qq) 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, this unit is considered a new affected facility.
Under 40 CFR 63, Subpart DDDDD, this unit is considered a new affected facility.

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

New Source Performance Standards (NSPS) Requirements [326 IAC 2-7-5(1)]

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

(a) Pursuant to 40 CFR 60.1, the Permittee shall comply with the provisions of 40 CFR Part 60, Subpart A – General Provisions, which are incorporated by reference as 326 IAC 12-1, for the emission unit(s) listed above, except as otherwise specified in 40 CFR Part 60, Subpart Db.

(b) Pursuant to 40 CFR 60.4, 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

E.1.2 Industrial-Commercial-Institutional Steam Generating Units NSPS [326 IAC 12] [40 CFR Part 60, Subpart Db]

The Permittee shall comply with the following provisions of 40 CFR Part 60, Subpart Db (included as Attachment A to the operating permit), which are incorporated by reference as 326 IAC 12, for the emission unit(s) listed above:

(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.2 NSPS

Emissions Unit Description:

(f) 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, this unit is considered an affected facility.
Under 40 CFR 63, Subpart DDDDD, this unit is considered an existing affected source.

(g) 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, this unit is considered an affected facility.
Under 40 CFR 63, Subpart DDDDD, this unit is considered an existing affected source.

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

New Source Performance Standards (NSPS) Requirements [326 IAC 2-7-5(1)]

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

(a) Pursuant to 40 CFR 60.1, the Permittee shall comply with the provisions of 40 CFR Part 60, Subpart A – General Provisions, which are incorporated by reference as 326 IAC 12-1, for the emission unit(s) listed above, except as otherwise specified in 40 CFR Part 60, Subpart Dc.

(b) Pursuant to 40 CFR 60.4, 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

E.2.2 Small Industrial-Commercial-Institutional Steam Generating Units NSPS [326 IAC 12] [40 CFR Part 60, Subpart Dc]

The Permittee shall comply with the following provisions of 40 CFR Part 60, Subpart Dc (included as Attachment B to the operating permit), which are incorporated by reference as 326 IAC 12, for the emission unit(s) listed above:

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

SECTION E.3 NSPS

Emissions Unit Description:

(a) Truck Dump #2, identified as 1EL1, constructed in 1980, with a maximum capacity of 600 tons per hour, using a baghouse as control, and exhausting to stack 1EL.

Under 40 CFR 60, Subpart DD, this unit is considered an affected facility.

(b) The following grain elevator cleaning/screening equipment, collectively identified as 2EL4, using a baghouse as control, and exhausting to stack 2EL4, consisting of:

(1) One (1) Megatex screener, constructed in 2013, with a maximum throughput of 300 tons per hour, using a baghouse as control, and exhausting to stack 2EL4.
(2) One (1) #1 scalperator, constructed in 2011 and modified in 2013, with a maximum throughput of 120 tons per hour, using a baghouse as control, and exhausting to stack 2EL4.
(3) One (1) #2 scalperator, constructed in 2011 and modified in 2013, with a maximum throughput of 120 tons per hour, using a baghouse as control, and exhausting to stack 2EL4.

Under 40 CFR 60, Subpart DD, these units are considered affected facilities.

(h) The following grain elevator components, collectively identified as 10EL1, with a maximum throughput of 720 tons per hour, each, using a baghouse (replaced in 2015) and using oil suppressant as control, and exhausting to stack 10EL, consisting of:

(1) One (1) rail loadout, constructed in 1984.

Under 40 CFR 60, Subpart DD, these units are considered affected facilities.

(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 as control, and exhausting to stack 20EL.

Under 40 CFR 60, Subpart DD, this unit is considered an affected facility.

(s) One (1) Diesel Fuel-fired, VacBoss Portable Material Transfer System, identified as 21EL1, constructed in 2020, with a maximum capacity of 180 tons per hour, used to transfer grain and grain by-products from storage (railcars, silos, tanks, and buildings) into trucks, using no control, and exhausting to atmosphere.

Under 40 CFR 60, Subpart DD, this unit is considered an affected facility.

Insignificant Activities:

(d) 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.

Under 40 CFR 60, Subpart DD, this unit is considered an affected facility.

(i) 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.

Under 40 CFR 60, Subpart DD, this unit is an affected facility.

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

New Source Performance Standards (NSPS) Requirements [326 IAC 2-7-5(1)]

E.3.1 General Provisions Relating to New Source Performance Standards [326 IAC 12-1] [40 CFR Part 60, Subpart A]

(a) Pursuant to 40 CFR 60.1, the Permittee shall comply with the provisions of 40 CFR Part 60, Subpart A – General Provisions, which are incorporated by reference as 326 IAC 12-1, for the emission unit(s) listed above, except as otherwise specified in 40 CFR Part 60, Subpart DD.

(b) Pursuant to 40 CFR 60.4, 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

E.3.2 Grain Elevators NSPS [326 IAC 12] [40 CFR Part 60, Subpart DD]

The Permittee shall comply with the following provisions of 40 CFR Part 60, Subpart DD (included as Attachment C to the operating permit), which are incorporated by reference as 326 IAC 12.

(a) Grain Elevator (1EL1, 2EL4, 10EL1 rail loadout, 20EL1, 19EL1, 16EL1):
(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

(b) Vacboss Portable Transfer System (21EL1):
(1) 40 CFR 60.300(a), (b)
(2) 40 CFR 60.301
(3) 40 CFR 60.302(c)(1), (c)(2), (c)(3)
(4) 40 CFR 60.303
(5) 40 CFR 60.304

SECTION E.4 NSPS

Emissions Unit Description:

(b) Stationary fire pumps, as follows;

(2) One (1) stationary diesel-fired emergency fire pump engine, permitted in 2019, with a maximum power output rate of 305 hp.

Under 40 CFR 60, Subpart IIII, this fire pump engine is considered an affected facility. Under 40 CFR 63, Subpart ZZZZ, this fire pump engine is considered a new affected facility.

(3) One (1) stationary diesel-fired emergency fire pump engine, constructed in 2019 and permitted in 2024, with a maximum power output rate of 305 hp.

Under 40 CFR 60, Subpart IIII, this fire pump engine is considered an affected facility. Under 40 CFR 63, Subpart ZZZZ, this fire pump engine is considered a new affected facility.

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

New Source Performance Standards (NSPS) Requirements [326 IAC 2-7-5(1)]

E.4.1 General Provisions Relating to New Source Performance Standards [326 IAC 12-1] [40 CFR Part 60, Subpart A]

(a) Pursuant to 40 CFR 60.1, the Permittee shall comply with the provisions of 40 CFR Part 60, Subpart A – General Provisions, which are incorporated by reference as 326 IAC 12-1, for the emission unit(s) listed above, except as otherwise specified in 40 CFR Part 60, Subpart IIII.

(b) Pursuant to 40 CFR 60.4, 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

E.4.2 Stationary Compression Ignition Internal Combustion Engines NSPS [326 IAC 12] [40 CFR Part 60, Subpart IIII]

The Permittee shall comply with the following provisions of 40 CFR Part 60, Subpart IIII (included as Attachment D to the operating permit), which are incorporated by reference as 326 IAC 12, for the emission unit(s) listed above:

(1) 40 CFR 60.4200(a)(2)(ii)
(2) 40 CFR 60.4205(c)
(3) 40 CFR 60.4206
(4) 40 CFR 60.4207(a) and (b)
(5) 40 CFR 60.4208
(6) 40 CFR 60.4209(a)
(7) 40 CFR 60.4211(a), (c), (f)(1), (2)(i) and (3)
(8) 40 CFR 60.4214(b)

(9) 40 CFR 60.4218
(10) 40 CFR 60.4219
(11) Table 4 to 40 CFR 60, Subpart IIII
(12) Table 5 to 40 CFR 60, Subpart IIII

SECTION E.5 NESHAP

Emissions Unit Description:

(mm) 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. 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.

(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.

(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.

(5) One (1) wastewater system, identified as 24EX5, constructed prior to 1980, containing traces of hexane, exhausting to the extraction hot water separation pit.

(6) One (1) refined oil hot well, identified as 24EX6, constructed in 1975.

(7) One (1) sampling /hexane unloading port, identified as 24EX7.

(8) Oil tanks containing non-deodorized oil, identified as 24EX8, venting to the atmosphere.

Under 40 CFR 63, Subpart GGGG, these units are considered affected facilities.

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

National Emission Standards for Hazardous Air Pollutants (NESHAP) Requirements [326 IAC 2-7-5(1)]

E.5.1 General Provisions Relating to National Emission Standards for Hazardous Air Pollutants under 40 CFR Part 63 [326 IAC 20-1] [40 CFR Part 63, Subpart A]

(a) Pursuant to 40 CFR 63.1 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, for the emission unit(s) listed above, except as otherwise specified in 40 CFR Part 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

E.5.2 Solvent Extractions for Vegetable Oil Production NESHAP [40 CFR Part 63, Subpart GGGG] [326 IAC 20-60]

The Permittee shall comply with the following provisions of 40 CFR Part 63, Subpart GGGG (included as Attachment E to the operating permit), which are incorporated by reference as 326 IAC 20-60, for the emission unit(s) listed above:

(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.6 NESHAP

Emissions Unit Description:

(b) Stationary fire pumps, as follows;

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

Under 40 CFR 63, Subpart ZZZZ, these fire pump engines are considered affected facilities.

(2) One (1) stationary diesel-fired emergency fire pump engine, permitted in 2019, with a maximum power output rate of 305 hp.

Under 40 CFR 60, Subpart IIII, this fire pump engine is considered an affected facility. Under 40 CFR 63, Subpart ZZZZ, this fire pump engine is considered a new affected facility.

(3) One (1) stationary diesel-fired emergency fire pump engine constructed in 2019 and permitted in 2024, with a maximum power output rate of 305 hp.

Under 40 CFR 60, Subpart IIII, this fire pump engine is considered an affected facility. Under 40 CFR 63, Subpart ZZZZ, this fire pump engine is considered a new affected facility.

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

National Emission Standards for Hazardous Air Pollutants (NESHAP) Requirements [326 IAC 2-7-5(1)]

E.6.1 General Provisions Relating to National Emission Standards for Hazardous Air Pollutants under 40 CFR Part 63 [326 IAC 20-1] [40 CFR Part 63, Subpart A]

(a) Pursuant to 40 CFR 63.1 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, for the emission unit(s) listed above, except as otherwise specified in 40 CFR Part 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

E.6.2 Stationary Reciprocating Internal Combustion Engines NESHAP [40 CFR Part 63, Subpart ZZZZ] [326 IAC 20-82]

The Permittee shall comply with the following provisions of 40 CFR Part 63, Subpart ZZZZ (included as Attachment F to the operating permit). which are incorporated by reference as 326 IAC 20-82,

(a) One (1) Stationary diesel-fired emergency fire pump constructed in 1980:

(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), (2)(i), (3);
(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), (f)(1);
(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;
(22) Table 7 to 40 CFR 63 Subpart ZZZZ; and
(23) Table 8 to 40 CFR 63 Subpart ZZZZ.

(b) Two (2) stationary diesel-fired emergency fire pumps, constructed in 2019:
(1) 40 CFR 63.6580;
(2) 40 CFR 63.6585(a), (b);
(3) 40 CFR 63.6590(c)(6);
(4) 40 CFR 63.6595(a)(5), (c);
(5) 40 CFR 63.6665;
(6) 40 CFR 63.6670, and
(7) 40 CFR 63.6675

SECTION E.7 NESHAP

Emissions Unit Description:

(ll) 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, this unit is considered an existing affected source

(pp) 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, this unit is considered a new affected facility.
Under 40 CFR 63, Subpart DDDDD, this unit is considered a new affected source.

Insignificant Activities:

(f) 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, this unit is considered an affected facility.
Under 40 CFR 63, Subpart DDDDD, this unit is considered an existing affected source.

(g) 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, this unit is considered an affected facility.
Under 40 CFR 63, Subpart DDDDD, this unit is considered an existing affected source.

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

National Emission Standards for Hazardous Air Pollutants (NESHAP) Requirements [326 IAC 2-7-5(1)]

E.7.1 General Provisions Relating to National Emission Standards for Hazardous Air Pollutants under 40 CFR Part 63 [326 IAC 20-1] [40 CFR Part 63, Subpart A]

(a) Pursuant to 40 CFR 63.1 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, for the emission unit(s) listed above, except as otherwise 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

E.7.2 Industrial for Institutional, Commercial, and Industrial Boilers and Process Heaters NESHAP [40 CFR Part 63, Subpart DDDDD] [326 IAC 20-95]

The Permittee shall comply with the following provisions of 40 CFR Part 63, Subpart DDDDD (included as Attachment G to the operating permit). which are incorporated by reference as 326 IAC 20-95,

(a) Two (2) natural gas-fired steam generators (110E01 and 108E01) and natural gas-fired boiler (3SP1):
(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) One (1) natural gas-fired boiler 10SP1
(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
(21) Table 9 to Subpart DDDDD of Part 63
(22) Table 10 to Subpart DDDDD of Part 63

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 N 2nd Street, Decatur, Indiana 46733
Part 70 Permit No.: T001-47174-00005

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 N 2nd Street, Decatur, Indiana 46733
Part 70 Permit No.: T001-47174-00005

This form consists of 2 pages **Page 1 of 2**

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

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

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

If any of the following are not applicable, mark N/A **Page 2 of 2**

Date/Time Emergency started:
Date/Time Emergency was corrected:
Was the facility being properly operated at the time of the emergency? Y N
Type of Pollutants Emitted: TSP, PM-10, SO_2, VOC, NO_X, CO, Pb, other:
Estimated amount of pollutant(s) emitted during emergency:
Describe the steps taken to mitigate the problem:
Describe the corrective actions/response steps taken:
Describe the measures taken to minimize emissions:
If applicable, describe the reasons why continued operation of the facilities are necessary to prevent imminent injury to persons, severe damage to equipment, substantial loss of capital investment, or loss of product or raw materials of substantial economic value:

Form Completed by: _____

Title / Position: _____

Date: _____

Phone: _____

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

Part 70 Quarterly Report

Source Name: Bunge North America (East), LLC
Source Address: 1200 N 2nd Street, Decatur, Indiana 46733
Part 70 Permit No.: T001-47174-00005
Facility: Oil Extraction Facilities
Parameter: Hexane Usage
Limit: Less than 330,000 gallons per twelve (12) consecutive month period

QUARTER:_____ YEAR:_____

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

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

Submitted by:_____

Title / Position: _____

Signature: _____

Date: _____

Phone: _____

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

Part 70 Quarterly Report

Source Name: Bunge North America (East), LLC
Source Address: 1200 N 2nd Street, Decatur, Indiana 46733
Part 70 Permit No.: T001-47174-00005
Facility: Grain Processing Facilities
Parameter: Soybean grain processed through extraction
Limit: Less than 1,368,750 tons per twelve (12) consecutive month period

QUARTER:_____ YEAR:_____

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

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

Submitted by:_____

Title / Position: _____

Signature: _____

Date: _____

Phone: _____

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

Part 70 Quarterly Report

Source Name: Bunge North America (East), LLC
Source Address: 1200 N 2nd Street, Decatur, Indiana 46733
Part 70 Permit No.: T001-47174-00005
Facility: VacBoss Portable Material Transfer System, 21EL1
Parameter: Combined Annual Amount of Grain Processed (including amount of grain loaded into trucks)
Limit: Less than 270,000 tons per twelve (12) consecutive month period

QUARTER:_____ YEAR:_____

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

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

Submitted by:_____

Title / Position: _____

Signature: _____

Date: _____

Phone: _____

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

Source Name: Bunge North America (East), LLC
Source Address: 1200 N 2nd Street, Decatur, Indiana 46733
Part 70 Permit No.: T001-47174-00005

Months: _____ to _____ Year: _____

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 Operating Permit Renewal and Significant Source Modification

Source Description and Location

Source Name:	**Bunge North America (East), LLC**
Source Location:	**1200 N. 2nd Street, Decatur, Indiana 46733**
County:	**Adams**
SIC Code:	**2075 (Soybean Oil Mills); 2079 (Shortening, Table Oils, Margarine, and Other Edible Fats and Oils, Not Elsewhere Classified); 5153 (Grain and Field Beans)**
Permit Renewal No.:	**T001-47174-00005**
Significant Modification No.:	**SSM 001-47589-00005**
Permit Reviewer:	**Maddison Hite**

On October 27, 2023, Bunge North America (East), LLC submitted an application to the Office of Air Quality (OAQ) requesting to renew its operating permit. OAQ has reviewed the operating permit renewal application from Bunge North America (East), LLC relating to the operation of a stationary grain handling, soybean meal production, and soybean oil extraction plant. Bunge North America (East), LLC was issued its third Part 70 Operating Permit Renewal (T001-39540-00005) on July 29, 2019.

Existing Approvals

The source was issued Part 70 Operating Permit Renewal No. T001-39540-00005 on July 29, 2019. The source has since received the following approval:

(a) Significant Source Modification No. 001-42965-00005, issued on September 25, 2020; and
(b) Significant Permit Modification No. 001-43019-00005, issued on October 14, 2020.

All terms and conditions of previous permits issued pursuant to permitting programs approved into the State Implementation Plan have been either incorporated as originally stated, revised, or deleted by this permit. All previous registrations and permits are superseded by this permit.

Emission Units and Pollution Control Equipment

The source consists of the following permitted emission units:

(a) Truck Dump #2, identified as 1EL1, constructed in 1980, with a maximum capacity of 600 tons per hour, using a baghouse and oil suppression as control, and exhausting to stack 1EL.

(b) The following grain elevator cleaning/screening equipment, collectively identified as 2EL4, using a baghouse as control, and exhausting to stack 2EL4, consisting of:

(1) One (1) Megatex screener, constructed in 2013, with a maximum throughput of 300 tons per hour, using a baghouse as control, and exhausting to stack 2EL4.

(2) One (1) #1 scalperator, constructed in 2011 and modified in 2013, with a maximum throughput of 120 tons per hour, using a baghouse as control, and exhausting to stack 2EL4.

(3) One (1) #2 scalperator, constructed in 2011 and modified in 2013, with a maximum throughput of 120 tons per hour, using a baghouse as control, and exhausting to stack 2EL4.

(c) The following grain elevator East Work House Components, collectively identified as 2EL1, with a maximum throughput of 270 tons per hour (bottlenecked to 240 tons per hour), using a baghouse as control, and exhausting to stack 2EL, and consisting of:

(1) One (1) ext. screening bin, constructed prior to 1977;
(2) One (1) screening bin, constructed prior to 1977;
(3) One (1) solvent screening leg, constructed prior to 1977;
(4) One (1) #1 leg, constructed prior to 1977;
(5) One (1) #2 leg, constructed prior to 1977;
(6) One (1) #3 leg, constructed prior to 1977;
(7) One (1) west to east Hi-Roller, constructed prior to 1977;
(8) One (1) west to east belt loader, constructed prior to 1977;
(9) One (1) dry bean leg, constructed prior to 1977;
(10) One (1) #1 dryer Hi-Roller, constructed prior to 1977;
(11) One (1) weaver's belt, constructed prior to 1977; and
(12) One (1) 102 belt, constructed prior to 1977.

(d) One (1) hammermill, identified as 2EL2, constructed in 2010, with a maximum capacity of 5.6 tons per hour, using a baghouse as control, and exhausting to stack 2EL2.

(e) One (1) pneumatic conveying system, identified as 2EL3, constructed in 2010, with a maximum capacity of 5.6 tons per hour, using a baghouse as control, and exhausting to stack 22EX2.

(f) The following grain elevator components, collectively identified as 5EL1, with a maximum throughput of 900 tons per hour, each, using a baghouse and oil suppressant as control, exhausting to stack 5EL, and 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.

(g) 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 as control, with no aspiration.

(h) The following grain elevator components, collectively identified as 10EL1, with a maximum throughput of 720 tons per hour, each, using a baghouse (replaced in 2015) and using oil suppressant as control, and exhausting to stack 10EL, consisting of:

(1) One (1) rail loadout, constructed in 1984.
(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.

(i) The following grain elevator components, collectively identified as 14EL1, with a maximum throughput of 600 tons per hour, each, using a baghouse and oil suppressant as control, exhausting to stack 14EL, and 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;

(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 as control, and exhausting to stack 20EL.

(k) Silo bin vents, identified as 3EL1, constructed prior to 1977, with a combined maximum throughput of 900 tons per hour, using soybean oil as a dust suppressant, and exhausting to vent 3EL.

(l) Silo direct loadout, identified as 4EL1, constructed prior to 1977, with a maximum throughput of 270 tons per hour, using soybean oil as a dust suppressant.

(m) One (1) south tripper buggy, one (1) south galley belt loader, and one (1) north south belt, collectively identified as 6EL1, constructed prior to 1977, with a maximum throughput of 900 tons per hour, each, using a baghouse and oil suppressant as 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 as 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 and oil suppression as 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 and oil suppressant as 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, collectively identified as 13EL1, all constructed prior to 1977, with a maximum throughput of 360 tons per hour, each, using a baghouse and oil suppressant as 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 and oil suppression as control, and exhausting to stack 15EL.

(s) One (1) Diesel Fuel-fired, VacBoss Portable Material Transfer System, identified as 21EL1, constructed in 2020, with a maximum capacity of 180 tons per hour, used to transfer grain and grain by-products from storage (railcars, silos, tanks, and buildings) into trucks, using no control, and exhausting to atmosphere.

(t) Salt conveying, identified as 4SP1, constructed in 1981, with a maximum throughput of 21 tons per hour, using a baghouse as control, and exhausting to stack 4SP.

(u) The following soybean processing equipment together identified as “B” Flaking, 34EX1, approved in 2015 to replace baghouse (1EX) with a more efficient baghouse (34EX) for PM control, exhausting to stack 34EX.

(1) Six (6) flaking rolls, #1, #2, #3, #4, #5 and #6, constructed in 1991, each with a maximum throughput of 12.5 tons per hour (75 tons per hour total).

(2) One (1) “B” Flaking N/S drag conveyor constructed in 1991, with a maximum throughput of 78 tons per hour.

(3) One (1) "B" Flaking E/W drag conveyor constructed in 1980, with a maximum throughput of 95 tons per hour.

(v) The following soybean processing equipment together identified as "A" Flaking, 35EX1, approved in 2015 to install a dedicated baghouse (35EX) for PM control, exhausting to stack 35EX.

(1) One flaking roll, #14, constructed in 1991, moved from "B" Flaking to "A" Flaking, with a maximum throughput of 12.5 tons per hour.

(2) One (1) "A" Flaking N/S drag conveyor constructed in 1993, having a maximum throughput of 78 tons per hour.

(3) One (1) "A" Flaking E/W drag conveyor constructed in 1993, having a maximum throughput of 95 tons per hour.

(4) One N/S Run Around drag conveyor constructed in 1984, having a maximum throughput of 120 tons per hour.

(w) The following soybean processing equipment, together identified as 4EX1, with a maximum throughput of 156.3 tons per hour, each, sharing a baghouse with 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.

(x) 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 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.

(y) 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.

(z) Hot dehulling equipment, identified as 5EX2, constructed in 1991, with a maximum throughput of 156.3 tons per hour, approved in 2015 to replace existing wet scrubber with a baghouse (33EX) for PM control, and exhausting to stack 33EX.

(aa) 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.

(bb) 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.

(cc) 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.

(dd) 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.

(ee) 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.

(ff) 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.

(gg) 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.

(hh) 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 outdoors.

(ii) One (1) bean bowl truck loadout, identified as 16EX4, constructed in 1982, with a maximum capacity of 250 tons per hour, with no control, and exhausting outdoors.

(jj) 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.

(kk) 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.

(ll) 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 60, Subpart Db, this unit is considered a new affected facility.
Under 40 CFR 63, Subpart DDDDD, this unit is considered a new affected facility.

(mm) 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. 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.

(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.

(3) 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.

(4) One (1) wastewater system, identified as 24EX5, constructed prior to 1980, containing traces of hexane, exhausting to the extraction hot water separation pit.

(5) One (1) refined oil hot well, identified as 24EX6, constructed in 1975.

(6) One (1) sampling /hexane unloading port, identified as 24EX7.

(7) Oil tanks containing non-deodorized oil, identified as 24EX8, venting to the atmosphere.

Under 40 CFR 63, Subpart GGGG, this is considered an affected facility.

(nn) 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.

(oo) One (1) totally enclosed conveyor, identified as 32EX2, approved in 2009 for construction, with a maximum rate of 10 tons per hour.

(qq) 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 63, Subpart DDDDD, this unit is considered an existing affected facility.

Emission Units and Pollution Control Equipment Removed From the Source

The source has removed the following emission units:

(a) The following soybean processing equipment together identified as "A" Flaking, 35EX1, approved in 2015 to install a dedicated baghouse (35EX) for PM control, exhausting to stack 35EX.

(1) One (1) flaking roll, #8, constructed in 1981, having a maximum throughput of 16.67 tons per hour.

(2) Four flaking rolls, #9, #10, #11, #12, constructed in 1978, each having a maximum throughput of 10.41 tons per hour (41.64 tons per hour total).

(3) One (1) flaking roll, #13, constructed in 1985, having a maximum throughput of 16.67 tons per hour.

(b) 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.

(c) Stationary fire pump, as follows;

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

Under 40 CFR 63, Subpart ZZZZ, these fire pump engines are considered affected facilities.

Insignificant Activities

The source also consists of the following insignificant activities:

(a) Paved and unpaved roads and parking lots with public access.

(b) Stationary fire pumps, as follows;

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

Under 40 CFR 63, Subpart ZZZZ, these fire pump engines are considered affected facilities.

(2) One (1) stationary diesel-fired emergency fire pump engine, permitted in 2019, with a maximum power output rate of 305 hp.

Under 40 CFR 60, Subpart IIII, this fire pump engine is considered an affected facility.
Under 40 CFR 63, Subpart ZZZZ, this fire pump engine is considered a new affected facility.

(c) One (1) fire pump diesel fuel storage tank, permitted in 2019, with a capacity of 500 gallons.

(d) Two (2) fire pump diesel fuel storage tanks, permitted in 2024, with a capacity of 550 gallons, each.

(e) One (1) natural gas fired grain dryer #1, identified as 16EL1, constructed in 1986, with a maximum capacity of 75 tons per hour and a maximum heat input capacity of 7 MMBtu/hr, using self-cleaning screens for PM control, and exhausting to stack 16EL.

Under 40 CFR 60, Subpart DD, this unit is considered an affected facility.

(f) 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.

(g) 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.

(h) 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.

(i) 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.

(j) 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.

Under 40 CFR 60, Subpart DD, this unit is considered an affected facility.

(k) 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.

(l) 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.

(m) 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.

(n) 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.

(o) Natural gas-fired combustion sources with heat input equal to or less than ten million (10,000,000) British thermal units per hour.

(p) Propane or liquefied 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.

(q) Combustion source flame safety purging on start-up.

(r) 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.

(s) 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.

(t) Vessels storing lubricating oils, hydraulic oils, machining oils, and machining fluids.

(u) Machining where an aqueous cutting coolant continuously floods the machining interface.

(v) Degreasing operations that do not exceed 145 gallons per 12 months, and not subject to 326 IAC 20-6.

(w) 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.

(x) Closed loop heating and cooling systems.

(y) Activities associated with the treatment of wastewater streams with an oil and grease content less than or equal to 1% by volume.

(z) Water based adhesives that are less than or equal to 5% by volume of VOCs, excluding HAPs.

(aa) Noncontact cooling tower systems with natural draft cooling towers not regulated under a NESHAP.

(bb) Replacement or repair of electrostatic precipitators, bags in baghouses, and filters in other filtrations equipment.

(cc) Heat exchanger cleaning and repair.

(dd) Process vessel degreasing and cleaning to prepare for internal repairs.

(ee) Underground conveyors.

(ff) Coal bunker and coal scale exhausts and associated dust collector vents.

(gg) Asbestos abatement projects regulated by 326 IAC 14-10.

(hh) 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.

(ii) 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.

(jj) Blowdown for any of the following: sight glass, boiler, compressors, pumps, and cooling tower.

(kk) Purge double block and bleed valves.

(ll) Filter or coalescer media changeout.

(mm) Vents from ash transport systems not operated at positive pressure.

(nn) A laboratory as defined in 326 IAC 2-7-1(21)(D).

(oo) Emission units with PM and PM10 emissions less than five (5) tons per year, SO2, NOx, and VOC emissions less than ten (10) tons per year, CO emissions less than twenty-five (25) tons per year, lead emissions less than two-tenths (0.2) tons per year, single HAP emissions less than one (1) ton per year, and combination of HAPs emissions less than two and a half (2.5) tons per year, 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.

Emission Units and Pollution Control Equipment Constructed Under the Provisions of 326 IAC 2-1.1-3 (Exemptions)

The following existing emissions unit(s), constructed under the provisions of 326 IAC 2-1.1-3 (Exemptions), are being incorporated in the permit as part of this permitting action:

Project #1 (2019)

(a) One (1) stationary diesel-fired emergency fire pump engine constructed in 2019 and permitted in 2024, with a maximum power output rate of 305 hp.

Under 40 CFR 60, Subpart IIII, this fire pump engine is considered an affected facility.
Under 40 CFR 63, Subpart ZZZZ, this fire pump engine is considered a new affected facility.

The total potential to emit of each project is less than levels specified at 326 IAC 2-1.1-3(e)(1)(A) through (G) and the addition of the emission units did not require the source to transition to a higher operation

permit level. Therefore, pursuant to 326 IAC 2-1.1-3(e), the modification approval requirements under 326 IAC 2-7-10.5 , including the requirement to submit an application, do not apply to these emission units. See Appendix A of this Technical Support Document for detailed emission calculations.

Enforcement Issue

IDEM is aware that equipment has been constructed and operated prior to receipt of the proper permit. IDEM is reviewing this matter and will take the appropriate action. This proposed approval is intended to satisfy the requirements of the construction permit and operating rules.

Emission Calculations

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

County Attainment Status

The source is located in Adams County.

Pursuant to amendments to Indiana Code IC 13-17-3-14, effective July 1, 2023, a federal regulation that classifies or amends a designation of attainment, nonattainment, or unclassifiable for any area in Indiana under the federal Clean Air Act is effective and enforceable in Indiana on the effective date of the federal regulation.

Pollutant	Designation
SO_2	Better than national standards.
CO	Unclassifiable or attainment effective November 15, 1990.
O_3	Unclassifiable or attainment effective January 16, 2018, for the 2015 8-hour ozone standard.
$PM_{2.5}$	Unclassifiable or attainment effective April 15, 2015, for the 2012 annual $PM_{2.5}$ standard.
$PM_{2.5}$	Unclassifiable or attainment effective December 13, 2009, for the 2006 24-hour $PM_{2.5}$ standard.
PM_{10}	Unclassifiable effective November 15, 1990.
NO_2	Unclassifiable or attainment effective January 29, 2012, for the 2010 NO_2 standard.
Pb	Unclassifiable or attainment effective December 31, 2011, for the 2008 lead standard.

(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 of 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 $PM_{2.5}$, SO_2, and NOx emissions were reviewed pursuant to the requirements of Prevention of Significant Deterioration (PSD), 326 IAC 2-2.

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

Fugitive Emissions

(a) This type of operation is not one (1) of the twenty-eight (28) listed source categories under 326 IAC 2-2-1(ff)(1), 326 IAC 2-3-2(g), or 326 IAC 2-7-1(22)(B). However, there is an applicable New Source Performance Standard or National Emission Standard for Hazardous Air Pollutants that was in effect on August 7, 1980 (NSPS Subpart DD, Standards of Performance for Grain Elevators); therefore, fugitive emissions are counted toward the determination of PSD, Emission Offset, and Part 70 Permit applicability.

(b) The source includes fossil fuel fired boilers that support the grain elevator, soybean meal and soybean oil extraction plant. The fossil fuel boilers with a total heat input rating of greater than 250 MMBtu/hr are considered one (1) of the twenty-eight (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.

Boiler	Heat Input Capacity (MMMBtu/hr)
Murray Natural Gas Boiler	110.2
B&W Natural Gas Boiler	178.41
Natural Gas Steam Generator 110EO1	14
Natural Gas Steam Generator 108EO1	14
Total	316.61

The fugitive emissions of hazardous air pollutants (HAP) are counted toward the determination of Part 70 Permit applicability and source status under Section 112 of the Clean Air Act (CAA).

Greenhouse Gas (GHG) Emissions

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.

Unrestricted Potential Emissions

This table reflects the unrestricted potential emissions of the nested source.

	Unrestricted Potential Emissions (ton/year)								
	PM[1]	**PM_{10}[1]**	**$PM_{2.5}$[1, 2]**	**SO_2**	**NO_X**	**VOC**	**CO**	**Single HAP[3]**	**Total HAPs**
Total PTE of Nested Source	**1.15**	**4.58**	**4.58**	**0.36**	**60.29**	**3.32**	**50.64**	**2.49**	**2.61**

	Unrestricted Potential Emissions (ton/year)								
	PM[1]	**PM_{10}[1]**	**$PM_{2.5}$[1, 2]**	**SO_2**	**NO_X**	**VOC**	**CO**	**Single HAP[3]**	**Total HAPs**
Title V Major Source Thresholds	NA	100	100	100	100	100	100	10	25
PSD Major Source Thresholds	100	100	100	100	100	100	100	--	--

[1]Under the Part 70 Permit program (40 CFR 70), PM_{10} and $PM_{2.5}$, not particulate matter (PM), are each considered as a "regulated air pollutant."
[2]$PM_{2.5}$ listed is direct $PM_{2.5}$.
[3]Single highest source-wide HAP
*Fugitive HAP emissions are always included in the source-wide emissions.

This table reflects the unrestricted potential emissions of the entire source.

	Unrestricted Potential Emissions (ton/year)								
	PM[1]	**PM_{10}[1]**	**$PM_{2.5}$[1, 2]**	**SO_2**	**NO_X**	**VOC**	**CO**	**Single HAP[3]**	**Total HAPs**
Total PTE of Entire Source Excluding Fugitives*	>250	>250	>250	<250	<250	>250	<250	>10	>25
Fugitives from NSPS/NESHAP Source Category (NSPS Subpart DD)	209.28	58.10	9.45	0.00	0.00	0.00	0.00	0.00	0.00
Total PTE of Entire Source	>250	>250	>250	1.14	82.93	>250	63.03	>10	>25
Title V Major Source Thresholds	NA	100	100	100	100	100	100	10	25
PSD Major Source Thresholds	250	250	250	250	250	250	250	--	--

[1]Under the Part 70 Permit program (40 CFR 70), PM_{10} and $PM_{2.5}$, not particulate matter (PM), are each considered as a "regulated air pollutant."
[2]$PM_{2.5}$ listed is direct $PM_{2.5}$.
[3]Single highest source-wide HAP
*Fugitive HAP emissions are always included in the source-wide emissions.

Appendix A of this TSD reflects the detailed unrestricted potential emissions of the source.

(a) The potential to emit (as defined in 326 IAC 2-7-1(30)) of PM10, PM2.5, NOx, VOC, and CO is equal to or greater than one hundred (100) tons per year. Therefore, the source is subject to the provisions of 326 IAC 2-7 and will be issued a Part 70 Operating Permit Renewal.

(b) The potential to emit (as defined in 326 IAC 2-7-1(30)) of any single HAP is equal to or greater than ten (10) tons per year and/or the potential to emit (as defined in 326 IAC 2-7-1(30)) of a combination of HAPs is equal to or greater than twenty-five (25) tons per year. The source will be issued a Part 70 Operating Permit Renewal.

Part 70 Permit Conditions

This source is subject to the requirements of 326 IAC 2-7, because the source met the following:

(a) Emission limitations and standards, including those operational requirements and limitations that assure compliance with all applicable requirements at the time of issuance of Part 70 permits.

(b) Monitoring and related record keeping requirements which assume that all reasonable information is provided to evaluate continuous compliance with the applicable requirements.

Description of Proposed Modification to an Existing Source

The Office of Air Quality (OAQ) has reviewed an application, submitted by Bunge North America (East), LLC on October 27, 2023, relating to the following:

1. Replace the millfeed storage bin fabric filter with a filter with a higher fan speed,
2. Replace existing flaking rolls in 'A' Flaking with larger rolls,
3. Replace salt storage bins under salt conveying, and
4. Add an existing emergency fire pump constructed in 2019 to the permit.

The following is a list of the new and modified emission units and pollution control device(s):

(a) One (1) Millfeed storage bin, identified as 22EX, with a maximum capacity of 156.3 tons/hr, using baghouse replaced in 2022 as control and exhausting to stack 22EX.

(b) The following soybean processing equipment together identified as "A" Flaking, 35EX1, approved in 2015 to install a dedicated baghouse (35EX) for PM control, exhausting to stack 35EX.

(1) One (1) flaking roll, #8, #9, #10, and #11, constructed in 2023, each with a maximum throughput of 25.26 tons per hour.

(2) One flaking roll, #14, constructed in 1991, moved from "B" flaking to "A" flaking in 2023, having a maximum throughput of 12.5 tons per hour.

(3) One (1) "A" Flaking N/S drag conveyor constructed in 1993, having a maximum throughput of 78 tons per hour.

(4) One (1) "A" Flaking E/W drag conveyor constructed in 1993, having a maximum throughput of 95 tons per hour.

(5) One N/S Run Around drag conveyor constructed in 1984, having a maximum throughput of 120 tons per hour.

(c) Salt conveying, identified as 4SP1, constructed in 1981 and modified in 2023, with a maximum throughput of 25 tons per hour, using a baghouse as control, and exhausting to stack 4SP.

Permit Level Determination – Part 70 Modification to an Existing Source

Pursuant to 326 IAC 2-1.1-1(12), 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. If the control equipment has been determined to be integral, the table reflects the potential to emit (PTE) after consideration of the integral control device.

	PTE Before Controls of the New Emission Units (ton/year)								
Process / Emission Unit	**PM**	**PM_{10}**	**$PM_{2.5}$[1]**	**SO_2**	**NO_X**	**VOC**	**CO**	**Single HAP[2]**	**Total HAPs**
Flaking Roll #8	10.95	5.48	5.48	--	--	--	--	--	--
Flaking Roll #9	10.95	5.48	5.48	--	--	--	--	--	--
Flaking Roll #10	10.95	5.48	5.48	--	--	--	--	--	--

	PTE Before Controls of the New Emission Units (ton/year)								
Process / Emission Unit	**PM**	**PM_{10}**	**$PM_{2.5}$[1]**	**SO_2**	**NO_X**	**VOC**	**CO**	**Single HAP[2]**	**Total HAPs**
Flaking Roll #11	10.95	5.48	5.48	--	--	--	--	--	--
Salt Conveying 4SP1	13.14	13.14	13.14	--	--	--	--	--	--
Total PTE Before Controls of the New Emission Units:	56.95	35.04	35.04	**--**	**--**	**--**	**--**	**--**	**--**

[1]$PM_{2.5}$ listed is direct $PM_{2.5}$.
[2]Single highest HAP.

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

	PTE Increase of the Modified Emission Unit(s)/Process(es) (ton/year)								
Process / Emission Unit	**PM**	**PM_{10}**	**$PM_{2.5}$[1]**	**SO_2**	**NO_X**	**VOC**	**CO**	**Single HAP[2]**	**Total HAPs**
PTE Before Modification (22EX)	5.63	5.63	5.63	--	--	--	--	--	--
PTE After Modification (22EX)	22.53	22.53	22.53	--	--	--	--	--	--
PTE Increase (22EX)	*16.90*	*16.90*	*16.90*	--	--	--	--	--	--
Total PTE Increase of the Modified Emission Unit(s)/Process	**16.90**	**16.90**	**16.90**	**--**	**--**	**--**	**--**	**--**	**--**

[1]$PM_{2.5}$ listed is direct $PM_{2.5}$.
[2]Single highest HAP.

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

	PTE Increases Due to the Modification (ton/year)								
	PM	**PM_{10}**	**$PM_{2.5}$[1]**	**SO_2**	**NO_X**	**VOC**	**CO**	**Single HAP[2]**	**Total HAPs**
Total PTE Before Controls of the New Emission Units	56.95	35.04	35.04	--	--	--	--	--	--
Total PTE Increase of the Modified Emission Unit(s)/Process	16.90	16.90	16.90	--	--	--	--	--	--
Total PTE of the Modification	**73.84**	**51.94**	**51.94**	**--**	**--**	**--**	**--**	**--**	**--**

[1]$PM_{2.5}$ listed is direct $PM_{2.5}$.
[2]Single highest HAP.

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

(a) Approval to Construct

Pursuant to 326 IAC 2-7-10.5(g)(4), a Significant Source Modification is required because this modification has the potential to emit PM/PM10/direct PM2.5 at equal to or greater than twenty-five (25) tons per year.

(b) Approval to Operate

Pursuant to 326 IAC 2-7-12(d)(1), this change to the permit is being made through a Significant Permit Modification because this modification does not qualify as a Minor Permit Modification or as an Administrative Amendment.

Permit Level Determination – PSD Emissions Increase

The source began actual construction of the project 2022 prior to determining the Project Emissions Increase for the project. Since the Project Emissions Increase must be determined prior to the start of actual construction, the following evaluation has been conducted based on the status of each emission unit just prior to the date that actual construction began, with the baseline emissions determined from the five (5) period immediately preceding the date that actual construction began.

(a) Actual to Projected Actual (ATPA) Applicability Test
Since this project only involves existing emissions units, an Actual to Projected Actual (ATPA) test, specified in 326 IAC 2-2-2(d)(3), is used to determine if the project results in a Significant Emissions Increase.

The source began actual construction of the modifcation prior to determining Projected Actual Emissions. Since Projected Actual Emissions must be determined prior to the start of actual construction, the source must use the potential to emit (PTE) of each emissions unit in lieu of the Projected Actual Emissions.

The source has provided information and emission calculations as part of the application for this ATPA test. IDEM, OAQ reviewed the emission calculations provided by the source to verify the emissions factors and methodology used, but has not made any determination regarding the validity and accuracy of certain information such as actual throughput, actual usage and actual hours of operation.

(b) Existing Emissions Units Affected by the Modification
This project only involves existing emissions units affected by the modification. The following emissions units will be considered existing for the purpose of this ATPA test:

(2) Modified emissions units.

(b) New Emissions Units and Existing Emissions Units Affected by the Modification
This project involves both new emissions units and existing emissions units affected by the modification.

(1) New Emissions Unit
Pursuant to 326 IAC 2-2-1(t)(1), a new emissions unit is any emissions unit that is, or will be, newly constructed and that has existed for less than two (2) years from the date the emissions unit first operated.

(2) Existing Emissions Unit Affected by the Modification
The following emissions units will be considered existing for the purpose of this ATPA test:
(B) Modified emissions units.

The following emissions unit(s) will be considered as modified existing emissions units for this evaluation.

(1) One (1) Millfeed storage bin, identified as 22EX, with a maximum capacity of 156.3 tons/hr, using baghouse replaced in 2022 as control and exhausting to stack 22EX.

(2) The following soybean processing equipment together identified as “A” Flaking, 35EX1, approved in 2015 to install a dedicated baghouse (35EX) for PM control, exhausting to stack 35EX.

(A) One (1) flaking roll, #8, #9, #10, and #11, constructed in 2023, having a maximum throughput of 25.26 tons per hour.

(B) One flaking roll, #14, constructed in 1991, moved from "B" flaking to "A" flaking in 2023, having a maximum throughput of 12.5 tons per hour.

(C) One (1) "A" Flaking N/S drag conveyor constructed in 1993, having a maximum throughput of 78 tons per hour.

(D) One (1) "A" Flaking E/W drag conveyor constructed in 1993, having a maximum throughput of 95 tons per hour.

(E) One N/S Run Around drag conveyor constructed in 1984, having a maximum throughput of 120 tons per hour.

Note: Four flaking rolls were replaced under "A" flaking with larger units, since other equipment in the line is still used, IDEM has determined this a modified unit for PSD purposes.

(3) Salt conveying, identified as 4SP1, constructed in 1981 and modified in 2023, with a maximum throughput of 25 tons per hour, using a baghouse as control, and exhausting to stack 4SP.

Note: The salt tanks used in salt conveying were replaced with larger units, since other equipment in the line are still used, IDEM has determined this a modified unit for PSD purposes.

(c) Baseline Actual Emissions
The baseline actual emissions from the existing emissions units involved in this ATPA applicability test are based on their emissions from July 2017 through June 2019.

(d) Actual to Projected Actual (ATPA) Summary
The Emissions Increase of the project is the sum of the difference between the Projected Actual Emissions and the baseline emissions for **each existing emissions unit.**

$ATPA_{(existing\ unit)}$ = Projected Actual Emissions - Baseline Emissions

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

Existing Emissions Unit ATPA (tons/year)								
Process/Emissions Unit	**PM**	**PM_{10}**	**$PM_{2.5}$**	**SO_2**	**NO_X**	**VOC**	**CO**	**GHGs**
Millfeed Storage Bin								
PTE	0.23	0.23	0.11	-	-	-	-	-
Baseline Actual Emissions	0.04	0.04	0.02	-	-	-	-	-
ATPA	**0.19**	**0.19**	**0.09**	**-**	**-**	**-**	**-**	**-**
Flaking Roll A (ATPA)								
PTE	1.35	1.35	0.68	-	-	-	-	-
Baseline Actual Emissions	1.28	1.28	0.64	-	-	-	-	-
ATPA	**0.07**	**0.07**	**0.03**	**-**	**-**	**-**	**-**	**-**
Salt Conveying								
PTE	0.13	0.13	0.13	-	-	-	-	-
Baseline Actual Emissions	0.13	0.13	0.13	-	-	-	-	-
ATPA	**0.00**	**0.00**	**0.00**	**-**	**-**	**-**	**-**	**-**

Project Emissions Increase (tons/year) "Hybrid Test"								
Process/Emissions Unit	**PM**	**PM_{10}**	**$PM_{2.5}$***	**SO_2**	**NO_X**	**VOC**	**CO**	**GHGs**
Millfeed Storage Bin (ATPA)	0.19	0.19	0.09	-	-	-	-	-
Flaking Roll A (ATPA)	0.07	0.07	0.03	-	-	-	-	-
Brine System (ATPA)	0.00	0.00	0.00	-	-	-	-	-
Project Emissions Increase	**0.26**	**0.26**	**0.13**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Significant Levels	25	15	10	40	40	40	100	75,000 CO_2e
*PM2.5 listed is direct PM2.5.								

The source has opted to take limits in order to render the requirements of 326 IAC 2-2 not applicable to this modification.

See Technical Support Document (TSD) State Rule Applicability - Entire Source section, 326 IAC 2-2 (PSD) and 326 IAC 2-3 (Emission Offset) applicability determination for more information regarding the limits.

(g) Conclusion

The Permittee has provided information as part of the application for this approval that based on Hybrid test in 326 IAC 2-2-2 that this modification to an existing major PSD stationary source will not be major because the Emissions Increase of each PSD regulated pollutant is less than the PSD significant levels levels (i.e., the modification does not cause a Significant Emissions Increase). The applicant will be required to keep records and report in accordance with 326 IAC 2-2-8 (Prevention of Significant Deterioration (PSD) Requirements: Source Obligation).

The source assures that no other units have experienced debottlenecking or increased utilization as a result of this project.

Potential to Emit After Issuance

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

PTE from Source Boilers (Nested source):

	Potential To Emit of the Nested Source After Issuance of Renewal (tons/year)								
	PM[1]	**PM_{10}[1]**	**$PM_{2.5}$[1, 2]**	**SO_2**	**NO_X**	**VOC**	**CO**	**Single HAP[3]**	**Total HAPs**
Total PTE of Nested Source Including Fugitives	1.15	4.58	4.58	0.36	60.29	3.32	50.64	2.49	2.61
Title V Major Source Thresholds	NA	100	100	100	100	100	100	10	25
PSD Major Source Thresholds	100	100	100	100	100	100	100	NA	NA

[1]Under the Part 70 Permit program (40 CFR 70), PM_{10} and $PM_{2.5}$, not particulate matter (PM), are each considered as a "regulated air pollutant."

[2]$PM_{2.5}$ listed is direct $PM_{2.5}$.

[3]Single highest source-wide HAP.

*Fugitive HAP emissions are always included in the source-wide emissions.

(a) This existing nested source is not a major stationary source, under PSD (326 IAC 2-2), because no PSD regulated pollutant is emitted at a rate of one hundred (100) tons per year or more and it is one of the twenty-eight (28) listed source categories, as specified in 326 IAC 2-2-1(ff)(1).

PTE from Entire Source:

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

	Potential To Emit of the Entire Source After Issuance of Renewal (tons/year)								
	PM[1]	**PM_{10}[1]**	**$PM_{2.5}$[1, 2]**	**SO_2**	**NO_X**	**VOC**	**CO**	**Single HAP[3]**	**Total HAPs**
Total PTE of Entire Source Excluding Fugitives*	>250	>250	>250	<250	<250	<250	<250	>10	>25
Fugitives from NSPS/NESHAP Source Category (NSPS Subpart DD)	209.28	58.10	9.45	-	-	-	-	--	-
Total PTE of Entire Source	>250	>250	>250	<250	<250	<250	<250	>10	>25
Title V Major Source Thresholds	NA	100	100	100	100	100	100	10	25
PSD Major Source Thresholds	250	250	250	250	250	250	250	NA	NA

[1]Under the Part 70 Permit program (40 CFR 70), PM_{10} and $PM_{2.5}$, not particulate matter (PM), are each considered as a "regulated air pollutant."

[2]$PM_{2.5}$ listed is direct $PM_{2.5}$.

[3]Single highest source-wide HAP.

*Fugitive HAP emissions are always included in the source-wide emissions.

Appendix A of this TSD reflects the detailed potential to emit of the entire source after issuance.

(a) This existing source is a major stationary source, under PSD (326 IAC 2-2), because a PSD regulated pollutant, PM, PM10, and PM2.5, 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 source is a major source of HAP, as defined in 40 CFR 63.2, because HAP emissions are equal to or greater than ten (10) tons per year for a single HAP and equal to or greater than twenty-five (25) tons per year for a combination of HAPs. Therefore, this source is a major source under Section 112 of the Clean Air Act (CAA).

Federal Rule Applicability

Federal rule applicability for this source has been reviewed as follows:

New Source Performance Standards (NSPS):

(a) The requirements of the New Source Performance Standard for Fossil-fuel-fired Steam Generators, 40 CFR 60, Subpart D and 326 IAC 12, are not included in the permit for any of the boilers, because they each have a heat input capacity of less than 250 MMBtu per hour.

(b) The requirements of the New Source Performance Standard for Industrial-Commercial-Institutional Steam Generating Units, 40 CFR 60, Subpart Db and 326 IAC 12, are not included in the permit for Boiler 3SP1, because the boiler was constructed prior to the rule applicability date, June 19, 1984. This boiler was constructed in 1968.

(c) The Boiler 10SP1 is subject to the New Source Performance Standards for Industrial-Commercial-Institutional Steam Generating Units, 40 CFR 60, Subpart Db and 326 IAC 12, because it is a steam generating unit and has a heat input capacity greater than 100 MMBtu per hour. The boiler subject to this rule includes the following:

(A) 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.

The natural gas-fired boiler is subject to the following portions of Subpart Db.

(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)

The requirements of 40 CFR Part 60, Subpart A – General Provisions, which are incorporated as 326 IAC 12-1, apply to the natural gas-fired boiler except as otherwise specified in 40 CFR 60, Subpart Db.

(d) The natural gas-fired steam generators (110EO1 and 108EO1) is subject to the New Source Performance Standards for Small Industrial-Commercial-Institutional Steam Generating Units, 40 CFR 60, Subpart Dc and 326 IAC 12, because these units are a steam generating units that have a heat input capacity greater than 10 MMBtu per hour and less than 100 MMBtu per hour. The steam generators subject to this rule includes the following:

(A) 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.

(B) 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.

The natural gas-fired steam generators is subject to the following portions of Subpart Dc.

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

Note: These are different that the previous citations as the previously cited requirements were for steam generators fueled by coal and other fuels. Since these steam generators only combust natural gas, the requirements were not necessary.

The requirements of 40 CFR Part 60, Subpart A – General Provisions, which are incorporated as 326 IAC 12-1, apply to the natural gas-fired steam generators except as otherwise specified in 40 CFR 60, Subpart Dc.

(e) This grain elevator is subject to the New Source Performance Standards for Grain Elevators, 40 CFR 60, Subpart DD and 326 IAC 12, because this source is a plant where grain is unloaded,

handled, cleaned, dried, stored, or loaded, that was constructed after August 3, 1978, and has a grain terminal elevator with a permanent storage capacity greater than 1 million bushels. The soybean meal and hull do not meet the definition of grain under 40 CFR 60.301(a). Therefore, the grain elevator subject to this rule includes the following operations:

(A) Truck Dump #2, identified as 1EL1, constructed in 1980, with a maximum capacity of 600 tons per hour, using a baghouse as control, and exhausting to stack 1EL.

(B) The following grain elevator cleaning/screening equipment, collectively identified as 2EL4, using a baghouse as control, and exhausting to stack 2EL4, consisting of:

(1) One (1) Megatex screener, constructed in 2013, with a maximum throughput of 300 tons per hour, using a baghouse as control, and exhausting to stack 2EL4.

(2) One (1) #1 scalperator, constructed in 2011 and modified in 2013, with a maximum throughput of 120 tons per hour, using a baghouse as control, and exhausting to stack 2EL4.

(3) One (1) #2 scalperator, constructed in 2011 and modified in 2013, with a maximum throughput of 120 tons per hour, using a baghouse as control, and exhausting to stack 2EL4.

(C) The following grain elevator components, collectively identified as 10EL1, with a maximum throughput of 720 tons per hour, each, using a baghouse (replaced in 2015) and using oil suppressant as control, and exhausting to stack 10EL, consisting of:

(1) One (1) rail loadout, constructed in 1984.

(D) One (1) truck dump #7, identified as 20EL1, constructed in 1997, with a maximum throughput of 450 tons per hour, consisting of one (1) weigh scale truck unloading pit, and two (2) enclosed bucket elevator legs, using two (2) baghouses in parallel as control, and exhausting to stack 20EL.

(E) One (1) Diesel Fuel-fired, VacBoss Portable Material Transfer System, identified as 21EL1, constructed in 2020, with a maximum capacity of 180 tons per hour, used to transfer grain and grain by-products from storage (railcars, silos, tanks, and buildings) into trucks, using no control, and exhausting to atmosphere.

(F) 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.

(G) 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.

The grain elevator is subject to the following portions of Subpart DD.

(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

The VacBoss Portable Material Transfer System is subject to the following portions of Subpart DD:

(1) 40 CFR 60.300(a), (b)

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

The requirements of 40 CFR Part 60, Subpart A – General Provisions, which are incorporated as 326 IAC 12-1, apply to the grain elevator and Vacboss portable material transfer system except as otherwise specified in 40 CFR 60, Subpart DD.

(f) The requirements of the New Source Performance Standard for Compression Ignition Internal Combustion Engines, 40 CFR 60, Subpart IIII and 326 IAC 12, are not included in the permit for the 380 hp diesel-fired fire pump engines, because these compression ignition internal combustion engines were constructed prior to July 11, 2005.

(g) The 305 hp diesel-fired fire pump engine is subject to the New Source Performance Standards for Compression Ignition Internal Combustion Engines, 40 CFR 60, Subpart IIII and 326 IAC 12, because 305 hp diesel-fired fire pump engine is a compression ignition internal combustion engine constructed after July 11, 2005. The 305 hp diesel-fired fire pump engine subject to this rule includes the following:

(A) One (1) stationary diesel-fired emergency fire pump engine, permitted in 2019, with a maximum power output rate of 305 hp.

(B) One (1) stationary diesel-fired emergency fire pump engine, constructed in 2019 and permitted in 2024, with a maximum power output rate of 305 hp.

The 305 hp diesel-fired fire pump engines are subject to the following portions of Subpart IIII.

(1) 40 CFR 60.4200(a)(2)(ii)
(2) 40 CFR 60.4205(c)
(3) 40 CFR 60.4206
(4) 40 CFR 60.4207(a) and (b)
(5) 40 CFR 60.4208
(6) 40 CFR 60.4209(a)
(7) 40 CFR 60.4211(a), (c), (f)(1), (2)(i) and (3)
(8) 40 CFR 60.4214(b)
(9) 40 CFR 60.4218
(10) 40 CFR 60.4219
(11) Table 4 to 40 CFR 60, Subpart IIII
(12) Table 5 to 40 CFR 60, Subpart IIII
(13) Table 8 to 40 CFR 60, Subpart IIII

The requirements of 40 CFR Part 60, Subpart A – General Provisions, which are incorporated as 326 IAC 12-1, apply to the 305 hp diesel-fired fire pump engine except as otherwise specified in 40 CFR 60, Subpart IIII.

(h) The requirements of the New Source Performance Standard for Stationary Spark Ignition Internal Combustion Engines, 40 CFR 60, Subpart JJJJ and 326 IAC 12, are not included in the permit for the diesel-fired fire pump engines, because these units are not spark ignition internal combustion engines. They are compression internal combustion engines.

(i) There are no other New Source Performance Standards (40 CFR Part 60) and 326 IAC 12 included in the permit.

National Emission Standards for Hazardous Air Pollutants (NESHAP):

(a) The requirements of the National Emission Standards for Hazardous Air Pollutants (NESHAPs) for Halogenated Solvent Cleaning, 40 CFR 63, Subpart T and 326 IAC 20-6 are not included in

the permit for the degreasing operations, since for the degreasing operations do not contain any halogenated HAP as defined in 40 CFR 63.461.

(b) This source is still subject to the National Emission Standards for Hazardous Air Pollutants for Solvent Extractions for Vegetable il Production, 40 CFR 63, Subpart GGGG, which is incorporated by reference as 326 IAC 20-60, because this source is a vegetable oil production process that is also a major source of HAP emissions. The units subject to this rule include the following:

(A) One (1) hexane extraction system, identified collectively as 24EX, modified prior to 1980, with hexane emissions from the vent system controlled by a mineral oil absorber, and exhausting to stack 24EXA. 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.

(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.

(3) 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.

(4) One (1) wastewater system, identified as 24EX5, constructed prior to 1980, containing traces of hexane, exhausting to the extraction hot water separation pit.

(5) One (1) refined oil hot well, identified as 24EX6, constructed in 1975.

(6) One (1) sampling /hexane unloading port, identified as 24EX7.

(7) Oil tanks containing non-deodorized oil, identified as 24EX8, venting to the atmosphere.

This source is subject to the following portions of Subpart GGGG:

(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

The requirements of 40 CFR Part 63, Subpart A – General Provisions, which are incorporated as 326 IAC 20-1, apply to the source except as otherwise specified in 40 CFR 63, Subpart GGGG.

(c) The diesel-fire fire pump engines are subject to the National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines, 40 CFR 63, Subpart ZZZZ, which is incorporated by reference as 326 IAC 20-82, because the diesel-fired fire pump engines are station reciprocating internal combustion engines. The diesel-fired fire pumps subject to this rule include the following:

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

(2) One (1) stationary diesel-fired emergency fire pump engine, permitted in 2019, with a maximum power output rate of 305 hp.

(3) One (1) stationary diesel-fired emergency fire pump engine constructed in 2019 and permitted in 2024, with a maximum power output rate of 305 hp.

The 380 hp diesel-fire fire pump engines is subject to the following portions of Subpart ZZZZ:

(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), (2)(i), (3);
(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), (f)(1);
(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;
(22) Table 7 to 40 CFR 63 Subpart ZZZZ; and
(23) Table 8 to 40 CFR 63 Subpart ZZZZ.

The 305 hp diesel-fire fire pump engines is subject to the following portions of Subpart ZZZZ:

(1) 40 CFR 63.6580;
(2) 40 CFR 63.6585(a), (b);
(3) 40 CFR 63.6590(c)(6);
(4) 40 CFR 63.6595(a)(5), (c);

(5) 40 CFR 63.6665;
(6) 40 CFR 63.6670, and
(7) 40 CFR 63.6675

The requirements of 40 CFR Part 63, Subpart A – General Provisions, which are incorporated as 326 IAC 20-1, apply to the diesel-fired fire pump engines except as otherwise specified in 40 CFR 63, Subpart ZZZZ.

(d) The requirements of the National Emission Standards for Hazardous Air Pollutants (NESHAPs) for Industrial, Commercial, and Institutional Boilers and Process Heaters, 40 CFR 63, Subpart DDDDD and 326 IAC 20-95 are not included in the permit for the natural gas-fired grain dryers, since the grain dryers do not meet the definition of a boiler or process heater under 40 CFR 63.7575.

(e) The natural gas-fired steam generators and boilers are subject to the National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers and Process Heaters, 40 CFR 63, Subpart DDDDD, which is incorporated by reference as 326 IAC 2-95, because e the source operates at least one industrial, commercial, or institutional boiler or process heater as defined in 40 CFR 63.7575 that is located at, or is part of, a major source of HAP. The units subject to this rule include the following:

(A) 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.

(B) 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.

(C) 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.

(D) 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.

The natural gas steam generators and boiler 3SP1 is subject to the following portions of Subpart DDDDD:

(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

The natural gas-fired boiler 10SP1 is subject to the following portions of 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
(21) Table 9 to Subpart DDDDD of Part 63
(22) Table 10 to Subpart DDDDD of Part 63

The requirements of 40 CFR Part 63, Subpart A – General Provisions, which are incorporated as 326 IAC 20-1, apply to the natural gas-fired steam generators and boilers except as otherwise specified in 40 CFR 63, Subpart DDDDD.

(f) The requirements of the National Emission Standards for Hazardous Air Pollutants (NESHAPs) for Source Category: Gasoline Dispensing Facilities, 40 CFR 63, Subpart CCCCCC are not included in the permit for this source, since this source is major for HAPs. This subpart only applies to area sources.

(g) There are no other National Emission Standards for Hazardous Air Pollutants under 40 CFR 63, 326 IAC 14 and 326 IAC 20 included in the permit.

Compliance Assurance Monitoring (CAM):

(a) Pursuant to 40 CFR 64.2, Compliance Assurance Monitoring (CAM) is applicable to each existing pollutant-specific emission unit that meets the following criteria:

(1) has a potential to emit before controls equal to or greater than the major source threshold for the regulated pollutant involved;

(2) is subject to an emission limitation or standard for that pollutant (or a surrogate thereof); and

(3) uses a control device, as defined in 40 CFR 64.1, to comply with that emission limitation or standard.

(b) Pursuant to 40 CFR 64.2(b)(1)(i), emission limitations or standards proposed after November 15, 1990 pursuant to a NSPS or NESHAP under Section 111 or 112 of the Clean Air Act are exempt from the requirements of CAM. Therefore, an evaluation was not conducted for any emission limitations or standards proposed after November 15, 1990 pursuant to a NSPS or NESHAP under Section 111 or 112 of the Clean Air Act.

The following table is used to identify the applicability of CAM to each emission unit and each emission limitation or standard for a specified pollutant based on the criteria specified under 40 CFR 64.2:

Emission Unit/Pollutant	Control Device	Applicable Emission Limitation	Uncontrolled PTE (tons/year)	Controlled PTE (tons/year)	CAM Applicable (Y/N)	Large Unit (Y/N)
1EL1 / PM*	BH	326 IAC 6-3-2	>100	<100	Y	N
1EL1 / PM10	BH	None	--	--	N [1]	N
1EL1 / PM2.5	BH	None	--	--	N [1]	N
2EL4 / PM	BH	326 IAC 2-2	<100	<100	N [3]	N
2EL4 / PM*	BH	326 IAC 6-3-2	<100	<100	N [2]	N
2EL4 / PM10	BH	326 IAC 2-2	<100	<100	N [2]	N
2EL4 / PM2.5	BH	None	--	--	N [1]	N
2EL1 / PM*	BH	326 IAC 6-3-2	<100	<100	N [2]	N
2EL1 / PM10	BH	None	--	--	N [1]	N
2EL1 / PM2.5	BH	None	--	--	N [1]	N
2EL2 / PM	BH	326 IAC 2-2	<100	<100	N [3]	N
2EL2 / PM*	BH	326 IAC 6-3-2	<100	<100	N [2]	N
2EL2 / PM10	BH	326 IAC 2-2	<100	<100	N [2]	N
2EL2 / PM2.5	BH	None	--	--	N [1]	N
2EL3 / PM	BH	326 IAC 2-2	<100	<100	N [3]	N
2EL3 / PM*	BH	326 IAC 6-3-2	<100	<100	N [2]	N
2EL3 / PM10	BH	326 IAC 2-2	<100	<100	N [2]	N
2EL3 / PM2.5	BH	None	--	--	N [1]	N
5EL1 / PM*	BH/OS	326 IAC 6-3-2	<100	<100	N [2]	N
5EL1 / PM10	BH/OS	None	--	--	N [1]	N
5EL1 / PM2.5	BH/OS	None	--	--	N [1]	N
8EL1 / PM*	OS	326 IAC 6-3-2	<100	<100	N [2]	N
8EL1 / PM10	OS	None	--	--	N [1]	--
8EL1 / PM2.5	OS	None	--	--	N [1]	--
10EL1 / PM*	OS	326 IAC 6-3-2	>100	<100	Y	N
10EL1 / PM10	OS	None	--	--	N [1]	N
10EL1 / PM2.5	OS	None	--	--	N [1]	N
14EL1 / PM*	BH/OS	326 IAC 6-3-2	>100	<100	Y	N
14EL1 / PM10	BH/OS	None	--	--	N [1]	N
14EL1 / PM2.5	BH/OS	None	--	--	N [1]	N
20EL1 / PM*	BH	326 IAC 6-3-2	>100	<100	Y	N
20EL1 / PM10	BH	None	--	--	N [1]	N
20EL1 / PM2.5	BH	None	--	--	N [1]	N
3EL1 / PM*	OS	326 IAC 6-3-2	<100	<100	N [2]	N
3EL1 / PM10	OS	None	--	--	N [1]	N
3EL1 / PM2.5	OS	None	--	--	N [1]	N
4EL1 / PM*	OS	326 IAC 6-3-2	<100	<100	N [2]	N
4EL1 / PM10	OS	None	--	--	N [1]	N
4EL1 / PM2.5	OS	None	--	--	N [1]	N
6EL1 / PM*	BH/OS	326 IAC 6-3-2	<100	<100	N [2]	N
6EL1 / PM10	BH/OS	None	--	--	N [1]	N
6EL1 / PM2.5	BH/OS	None	--	--	N [1]	N
7EL1 / PM*	OS	326 IAC 6-3-2	<100	<100	N [2]	N
7EL1 / PM10	OS	None	--	--	N [1]	N

Emission Unit/Pollutant	Control Device	Applicable Emission Limitation	Uncontrolled PTE (tons/year)	Controlled PTE (tons/year)	CAM Applicable (Y/N)	Large Unit (Y/N)
7EL1 / PM2.5	OS	None	--	--	N [1]	N
9EL1 / PM	BH	326 IAC 2-2	>100	<100	N [3]	N
9EL1 / PM*	BH	326 IAC 6-3-2	>100	<100	Y	N
9EL1 / PM10	BH	326 IAC 2-2	>100	<100	Y	N
9EL1 / PM2.5	BH	None	--	--	N [1]	N
12EL1 / PM*	BH/OS	326 IAC 6-3-2	>100	<100	Y	N
12EL1 / PM10	BH/OS	None	--	--	N [1]	N
12EL1 / PM2.5	BH/OS	None	--	--	N [1]	N
13EL1 / PM*	BH/OS	326 IAC 6-3-2	>100	<100	Y	N
13EL1 / PM10	BH/OS	None	--	--	N [1]	N
13EL1 / PM2.5	BH/OS	None	--	--	N [1]	N
15EL1 / PM*	BH	326 IAC 6-3-2	>100	<100	Y	N
15EL1 / PM10	BH	None	--	--	N [1]	N
15EL1 / PM2.5	BH	None	--	--	N [1]	N
21EL1 / PM	BH	326 IAC 2-2	<100	<100	N [3]	N
21EL1 / PM*	BH	326 IAC 6-3-2	<100	<100	N	N
21EL1 / PM10	BH	326 IAC 2-2	<100	<100	N	N
21EL1 / PM2.5	BH	326 IAC 2-2	<100	<100	N	N
4SP1 / PM	BH	326 IAC 2-2	<100	<100	N [3]	N
4SP1 / PM*	BH	326 IAC 6-3-2	<100	<100	N	N
4SP1 / PM10	BH	326 IAC 2-2	<100	<100	N	N
4SP1 / PM2.5	BH	326 IAC 2-2	<100	<100	N	N
34EX1 / PM	BH	326 IAC 2-2	<100	<100	N [3]	N
34EX1 / PM*	BH	326 IAC 6-3-2	<100	<100	N [2]	N
34EX1 / PM10	BH	326 IAC 2-2	<100	<100	N [2]	N
34EX1 / PM2.5	BH	None	--	--	N [1]	N
35EX1 / PM	BH	326 IAC 2-2	<100	<100	N [3]	N
35EX1 / PM*	BH	326 IAC 6-3-2	<100	<100	N [2]	N
35EX1 / PM10	BH	326 IAC 2-2	<100	<100	N [2]	N
35EX1 / PM2.5	BH	326 IAC 2-2	<100	<100	N [2]	N
4EX1 / PM	BH	326 IAC 2-2	<100	<100	N [3]	N
4EX1 / PM*	BH	326 IAC 6-3-2	<100	<100	N [2]	N
4EX1 / PM10	BH	326 IAC 2-2	<100	<100	N [2]	N
4EX1 / PM2.5	BH	None	--	--	N [1]	N
4EX3 / PM	BH	326 IAC 2-2	<100	<100	N [3]	N
4EX3 / PM*	BH	326 IAC 6-3-2	<100	<100	N [2]	N
4EX3 / PM10	BH	326 IAC 2-2	<100	<100	N [2]	N
4EX3 / PM2.5	BH	None	--	--	N [1]	N
5EX1 / PM	BH	326 IAC 2-2	>100	<100	N [3]	N
5EX1 / PM*	BH	326 IAC 6-3-2	>100	<100	Y	N
5EX1 / PM10	BH	326 IAC 2-2	>100	<100	Y	N
5EX1 / PM2.5	BH	None	--	--	N [1]	N
5EX2 / PM	WS/BH	326 IAC 2-2	>100	<100	N [3]	
5EX2 / PM*	WS/BH	326 IAC 6-3-2	<100	<100	N [2]	N
5EX2 / PM10	WS/BH	326 IAC 2-2	<100	<100	N [2]	N
5EX2 / PM2.5	WS/BH	None	--	--	N [1]	N
5EX3 / PM	BH	326 IAC 2-2	>100	<100	N [3]	N
5EX3 / PM*	BH	326 IAC 6-3-2	>100	<100	Y	N

Emission Unit/Pollutant	Control Device	Applicable Emission Limitation	Uncontrolled PTE (tons/year)	Controlled PTE (tons/year)	CAM Applicable (Y/N)	Large Unit (Y/N)
5EX3 / PM10	BH	326 IAC 2-2	>100	<100	Y	N
5EX3 / PM2.5	BH	None	--	--	N [1]	N
6EX1 / PM	BH	326 IAC 2-2	>100	<100	N [3]	N
6EX1 / PM*	BH	326 IAC 6-3-2	>100	<100	Y	N
6EX1 / PM10	BH	326 IAC 2-2	>100	<100	Y	N
6EX1 / PM2.5	BH	None	--	--	N [1]	N
7EX / PM	BH	326 IAC 2-2	>100	<100	N [3]	N
7EX / PM*	BH	326 IAC 6-3-2	>100	<100	Y	N
7EX / PM10	BH	326 IAC 2-2	>100	<100	Y	N
7EX / PM2.5	BH	None	--	--	N [1]	N
9EX1 / PM*	BH	326 IAC 6-3-2	<100	<100	N	N
9EX1 / PM10	BH	None	--	--	N [1]	N
9EX1 / PM2.5	BH	None	--	--	N [1]	N
10EX1 / PM*	BH	326 IAC 6-3-2	<100	<100	N [2]	N
10EX1 / PM10	BH	None	--	--	N [1]	N
10EX1 / PM2.5	BH	None	--	--	N [1]	N
11EX1 / PM*	BH	326 IAC 6-3-2	<100	<100	N [2]	N
11EX1 / PM10	BH	None	--	--	N [1]	N
11EX1 / PM2.5	BH	None	--	--	N [1]	N
12EX1 / PM*	BH	326 IAC 6-3-2	<100	<100	N [2]	N
12EX1 / PM10	BH	None	--	--	N [1]	N
12EX1 / PM2.5	BH	None	--	--	N [1]	N
16EX1 / PM*	NONE	326 IAC 6-3-2	<100	<100	N [2]	N
16EX1 / PM10	NONE	None	--	--	N [1]	N
16EX1 / PM2.5	NONE	None	--	--	N [1]	N
16EX2 / PM*	NONE	326 IAC 6-3-2	<100	<100	N [2]	N
16EX2 / PM10	NONE	None	--	--	N [1]	N
16EX2 / PM2.5	NONE	None	--	--	N [1]	N
16EX3 / PM*	NONE	326 IAC 6-3-2	<100	<100	N [2]	N
16EX3 / PM10	NONE	None	--	--	N [1]	N
16EX3 / PM2.5	NONE	None	--	--	N [1]	N
16EX4 / PM*	NONE	326 IAC 6-3-2	<100	<100	N [2]	N
16EX4 / PM10	NONE	None	--	--	N [1]	N
16EX4 / PM2.5	NONE	None	--	--	N [1]	N
18EX1 / PM*	NONE	326 IAC 6-3-2	<100	<100	N [2]	N
18EX1 / PM10	NONE	None	--	--	N [1]	N
18EX1 / PM2.5	NONE	None	--	--	N [1]	N
23EX1 / PM	BV	326 IAC 2-2	<100	<100	N [3]	N
23EX1 / PM*	BV	326 IAC 6-3-2	<100	<100	N [2]	N
23EX1 / PM10	BV	326 IAC 2-2	<100	<100	N [2]	N
23EX1 / PM2.5	BV	None	--	--	N [1]	N
3SP1 / PM*	NONE	326 IAC 6-3-2	--	--	N [1]	N
3SP1 / PM10	NONE	None	--	--	N [1]	N
3SP1 / PM2.5	NONE	None	--	--	N [1]	N
24EX / VOC	MOA	326 IAC 2-2	>100	<100	Y	N
24EX / Hexane	MOA	None	--	--	N [1]	N
24EX1 / PM	C	326 IAC 2-2	>100	<100	N [3]	N
24EX1 / PM*	C	326 IAC 6-3-2	>100	<100	Y	N

Emission Unit/Pollutant	Control Device	Applicable Emission Limitation	Uncontrolled PTE (tons/year)	Controlled PTE (tons/year)	CAM Applicable (Y/N)	Large Unit (Y/N)
24EX1 / PM10	C	326 IAC 2-2	>100	<100	Y	N
24EX1 / PM2.5	C	None	--	--	N [1]	N
24EX2 / PM	C	326 IAC 2-2	>100	<100	N [3]	N
24EX2 / PM*	C	326 IAC 6-3-2	>100	<100	Y	N
24EX2 / PM10	C	326 IAC 2-2	>100	<100	Y	N
24EX2 / PM2.5	C	None	--	--	N [1]	N
24EX4A / VOC	MOA	326 IAC 2-2	<100	<100	N	N
24EX4B / VOC	MOA	326 IAC 2-2	<100	<100	N	N
24EX5 / VOC	-	326 IAC 2-2	<100	<100	N	N
24EX6 / VOC	-	326 IAC 2-2	<100	<100	N	N
24EX7 / VOC	-	326 IAC 2-2	>100	<100	N	N
24EX8 / VOC	-	326 IAC 2-2	<100	<100	N	N
32EX1 / PM*	C	326 IAC 6-3-2	<100	<100	N [2]	N
32EX1 / PM10	C	None	--	--	N [1]	N
32EX1 / PM2.5	C	None	--	--	N [1]	N
32EX2 / PM*	-	326 IAC 6-3-2	<100	<100	N [2]	N
32EX2 / PM10	-	None	--	--	N [1]	N
32EX2 / PM2.5	-	None	--	--	N [1]	N
22EX / PM	BH	326 IAC 2-2	<100	<100	N [3]	N
22EX / PM*	BH	326 IAC 6-3-2	<100	<100	N [2]	N
22EX / PM10	BH	326 IAC 2-2	<100	<100	N [2]	N
22EX / PM2.5	BH	326 IAC 2-2	<100	<100	N [2]	N
10SP1 / NOx	-	326 IAC 2-2	<100	<100	N [3]	N

Under the Part 70 Permit program (40 CFR 70), PM is not a regulated air pollutant.

Uncontrolled PTE (tpy) and controlled PTE (tpy) are evaluated against the Major Source Threshold for each pollutant. Major Source Threshold for regulated air pollutants (PM10, PM2.5, SO2, NOx, VOC and CO) is 100 tpy, for a single HAP ten (10) tpy, and for total HAPs twenty-five (25) tpy.

PM* For limitations under 326 IAC 6-3-2, 326 IAC 6.5, and 326 IAC 6.8, IDEM OAQ uses PM as a surrogate for the regulated air pollutant PM10. Therefore, uncontrolled PTE and controlled PTE reflect the emissions of the regulated air pollutant PM10.

N [1] CAM does not apply for particulate because there is not an applicable emission limit or standard for this pollutant.

N [2] CAM does not apply for particulate (PM/PM10/PM2.5) because the uncontrolled PTE of particulate (PM/PM10/PM2.5) is less than the major source threshold.

N [3] Under 326 IAC 2-2, PM is not a surrogate for a regulated air pollutant. Therefore, CAM does not apply to these emission units for the 326 IAC 2-2 PM limitation.

N [4] The control device is not required to comply with the applicable emission limitation or standard. Therefore, based on this evaluation, the requirements of 40 CFR Part 64, CAM, are not applicable.

N [5] A continuous compliance determination method, which provides data either in units of the standard or correlated directly to the compliance limit, is already specified in the Part 70 permit. Therefore, the emission limitation or standard is exempt from the requirements of 40 CFR Part 64, CAM.

Controls: BH = Baghouse, C = Cyclone, DC = Dust Collection System, RTO = Regenerative or Recuperative Thermal Oxidizer, WS = Wet Scrubber, ESP = Electrostatic Precipitator

Emission units without air pollution controls are not subject to CAM. Therefore, they are not listed.

Inherent Process Equipment

Pursuant to 40 CFR Part 64.1, the definition of inherent process equipment is "equipment that is necessary for the proper or safe functioning of the process, or material recovery equipment that the owner or operator documents is installed and operated primarily for purposes other than compliance with air pollution regulations. Equipment that must be operated at an efficiency higher than that achieved

during normal process operations in order to comply with the applicable emission limitation or standard is not inherent process equipment. For the purposes of this part, inherent process equipment is not considered subject to CAM."

Based on this evaluation, the requirements of 40 CFR Part 64, CAM, are not applicable to any of the new units as part of this modification.

Based on this evaluation, the requirements of 40 CFR Part 64, CAM, are applicable to 1EL1, 10EL1, 14EL1, 20EL1, 9EL1, 12EL1, 13EL1, 15EL1, 5EX1, 5EX3, 6EX1, 7EX, 24EX1, and 24EX2, for PM10. A CAM plan was submitted as part of a previous permit application and the Compliance Determination and Monitoring Requirements section includes a detailed description of the CAM requirements.

Based on this evaluation, the requirements of 40 CFR Part 64, CAM, are applicable to 24EX for VOC. A CAM plan was submitted as part of a previous permit application and the Compliance Determination and Monitoring Requirements section includes a detailed description of the CAM requirements.

State Rule Applicability - Entire Source

State rule applicability for this source has been reviewed as follows:

326 IAC 1-6-3 (Preventive Maintenance Plan)
The source is subject to 326 IAC 1-6-3.

326 IAC 2-2 (PSD) and 326 IAC 2-3 (Emission Offset)
PSD and Emission Offset applicability is discussed under the Potential to Emit After Issuance section of this document.

1991 Modification

In order to render the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) not applicable to the 1991 Modification permitted under CP No. (002) 2005, the Permittee shall comply with the following:

(a) The hexane usage of all 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.

Compliance with these limits, shall limit the potential to emit of VOC to less than forty (40) tons per twelve (12) consecutive month period, and shall render the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) not applicable to the 1991 Modification permitted under CP No. (002) 2005.

1996/1998 Modification

In order to render the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) not applicable to the 1996 modification permitted under CP 001-4673-00005 and 1998 modification permitted under AA No. 001-9930-00005, the Permittee shall comply with the following:

(a) The amount of soybean grains processed through extraction 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) 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.

(c) The PM and PM10 emissions shall be limited as follows:

EU ID	Stack ID	PM Limit (lb/hr)	PM10 Limit (lb/hr)
19EL1	19EL	1.36	0.283
34EX1	34EX	0.474	0.474
4EX1, 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
23EX1	23EX	0.021	0.021
6EX1	6EX	2.218	2.218

Compliance with these limits, shall limit the potential to emit of PM and PM10 to less than twenty-five (25) tons per twelve (12) consecutive month period of PM and fifteen (15) tons per twelve (12) consecutive month period, each, and shall render the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) not applicable to the 1996 modification permitted under CP 001-4673-00005 and 1998 modification permitted under AA No. 001-9930-00005.

July 8, 2010 Modification

In order to render the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) not applicable to the 2010 Modification permitted under SSM No. 001-29100-00005, the Permittee shall comply with the following:

(a) The PM and PM10 emissions shall be limited as follows:

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

Compliance with these limits, shall limit the potential to emit of PM to less than twenty-five (25) tons per twelve (12) consecutive month period and PM10 to less than fifteen (15) tons per twelve (12) consecutive month period, each, and shall render the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) not applicable to the 2010 Modification permitted under SSM No. 001-29100-00005.

August 17, 2010 Modification

In order to render the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) not applicable to the 2010 Modification permitted under SSM No. 001-29347-00005, the Permittee shall comply with the following:

(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 of PM and PM10 to less than twenty-five (25) tons per twelve (12) consecutive month period of PM and less than fifteen (15) tons per twelve (12) consecutive month period of PM10, each, and shall render the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) not applicable to the 2010 Modification permitted under SSM No. 001-2934700005.

2011 Modification

In order to render the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) not applicable to the 2013 Modification permitted under SSM No. 001-30622-00005, 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 PM2.5 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 of PM, PM10, and PM2.5 to less than to less than twenty-five (25) tons of PM, less than fifteen (15) tons of PM10 and less than ten (10) tons of PM2.5 tons per twelve (12) consecutive month period, each, and shall render the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) not applicable to the 2013 Modification permitted under SSM No. 001-30622-00005.

2015 Modification

In order to render the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) not applicable to the 2015 Modification permitted under SSM No. 001-35187-00005, the Permittee shall comply with the following:

(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.3.2(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.

Compliance with these limits, shall limit the potential to emit of NOx to less than forty (40) tons per twelve (12) consecutive month period, and shall render the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) not applicable to the 2015 Modification permitted under SSM No. 00-35187-00005.

2020 Modification

In order to render the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) not applicable to the 2020 Modification permitted under SSM No. 001-42965-00005, the Permittee shall comply with the following:

(a) The combined amount of grain processed by the VacBoss Portable Material Transfer System, 21EL1, (including the amount of grain loaded onto trucks), shall be limited to less than 270,000 tons per twelve (12) consecutive month period, with compliance determined at the end of each month, and

(b) The PM emissions from the VacBoss Portable Material Transfer System, 21EL1, shall not exceed 0.086 pounds per ton of grain processed.

(c) The PM10 emissions from the VacBoss Portable Material Transfer System, 21EL1, shall not exceed 0.029 pounds per ton of grain processed.

(d) The PM2.5 emissions from the VacBoss Portable Material Transfer System, 21EL1, shall not exceed 0.0049 pounds per ton of grain processed.

Compliance with these limits combined with the PM limits from the 1991 modification, shall limit the potential to emit of PM, PM10, and PM2.5 to less than twenty-five (25) tons of PM, less than fifteen (15) tons of PM10 and less than ten (10) tons of PM2.5 tons per twelve (12) consecutive month period, each, and shall render the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) not applicable to the 2020 Modification permitted under SSM No. 001-42965-00005.

2024 Modification

In order to render the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) not applicable to the 2024 Modification permitted under SSM No. 001-47589-00005, the Permittee shall comply with the following:

(1) The PM, PM10, and PM2.5 emissions shall not exceed the following:

Emission Unit	EU ID	PM Limit (lb/hr)	PM10 Limit (lb/hr)	PM2.5 Limit (lb/hr)
Millfeed Storage Bin	22EX	0.05	0.05	0.05
Flaking Rolls 'A'	35EX1	0.31	0.31	0.31
Salt Conveying	4SP1	0.03	0.03	0.03

Compliance with these limits combined shall limit the potential to emit of PM, PM10, and PM2.5 to less than twenty-five (25) tons of PM, less than fifteen (15) tons of PM10 and less than ten (10) tons of PM2.5 tons per twelve (12) consecutive month period, each, and shall render the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) not applicable to the 2020 Modification permitted under SSM No. 001-47589-00005.

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

The provisions of 326 IAC 2-4.1 apply to any owner or operator who constructs or reconstructs a major source of hazardous air pollutants (HAP), as defined in 40 CFR 63.41, after July 27, 1997, unless the major source has been specifically regulated under or exempted from regulation under a NESHAP that was issued pursuant to Section 112(d), 112(h), or 112(j) of the Clean Air Act (CAA) and incorporated under 40 CFR 63. On and after June 29, 1998, 326 IAC 2-4.1 is intended to implement the requirements of Section 112(g)(2)(B) of the Clean Air Act (CAA).

The operation of all equipment installed after July 27, 1997 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 the requirements of 326 IAC 2-6 (Emission Reporting), since it has the potential to emit PM10/VOC equal to or greater than two hundred fifty (250) tons per year. Pursuant to 326 IAC 2-6-3(a)(1), the Permittee shall submit annually, by July 1, an emission statement covering the previous calendar year. The emission statement shall contain, at a minimum, the information specified in 326 IAC 2-6-4.

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 certifications 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 (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.

326 IAC 5-1 (Opacity Limitations)
This source is subject to the opacity limitations specified in 326 IAC 5-1-2(1).

326 IAC 6-4 (Fugitive Dust Emissions Limitations)
Pursuant to 326 IAC 6-4 (Fugitive Dust Emissions Limitations), the source 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.

326 IAC 6-5 (Fugitive Particulate Matter Emission Limitations)
This source is not subject to the requirements of 326 IAC 6-5, because this source is not located in a county listed in 236 IAC 6-5-1(a) and has not added a facility with the potential to emit fugitive particulate matter greater than 25 tons per year, which requires a permit as set forth in 326 IAC 2, after December 13, 1985. Therefore, pursuant to 326 IAC 6-5-1, this source is not subject to the requirements of 326 IAC 6-5.

326 IAC 6.5 (Particulate Matter Limitations Except Lake County)
Pursuant to 326 IAC 6.5-1-1(a), this source (located in Adams County) is not subject to the requirements of 326 IAC 6.5 because it is not located in one of the following counties: Clark, Dearborn, Dubois, Howard, Marion, St. Joseph, Vanderburgh, Vigo or Wayne.

326 IAC 6.8 (Particulate Matter Limitations for Lake County)
Pursuant to 326 IAC 6.8-1-1(a), this source (located in Adams County) is not subject to the requirements of 326 IAC 6.8 because it is not located in Lake County.

State Rule Applicability – Individual Facilities

State rule applicability has been reviewed as follows:

Grain Unloading, Processing, and Conveying (Grain Elevator)

326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes)
(a) Pursuant to 326 IAC 6-3-1(a), the requirements of 326 IAC 6-3-2 are applicable to the grain unloading, processing, and conveying equipment, since it is a manufacturing process not exempted from this rule under 326 IAC 6-3-1(b) and is not subject to a particulate matter limitation that is as stringent as or more stringent than the particulate limitation established in this rule as specified in 326 IAC 6-3-1(c).

Pursuant to 326 IAC 6-3-2, the particulate matter (PM) from the grain unloading, processing, and conveying equipment shall not exceed the following pounds per hour when operating at a process weight rate in tons per hour below. The pound per hour limitation was calculated with the following equation:

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

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

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

Summary Process Weight Rate Limits			
Emission Unit ID	**Process / Emission Unit**	**P (ton/hr)**	**E (lb/hr)**
1EL1	Truck Dump #2	600	71.16
2EL4	Megatex Screener	300	63.00
	#1 Scalperator	120	53.13
	#2 Scalperator	120	53.13
2EL1	Ext. Screening Bin	240	60.50
	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	Hammermill (2EL2)	5.6	13.00
2EL3	Pneumatic conveying system (2EL3)	5.6	13.00
5EL1	North Tripper Buggy (5EL1)	900	76.23
	North Galley Belt Loader		
	East West Belt		
	Bin 102		
8EL1	North west receiving house enclosed conveyor	360	65.09
10EL1	Rail loadout	720	73.41
	Rail receiving		
	North Leg		
	South Leg		
14EL1	Jumbo silo east galley belt	600	71.16
	Jumbo silo west galley belt		
	Jumbo silo crossover galley belt		
20EL1	Truck Dump #7	450	67.70
21EL1	Diesel fuel-fired Vacboss portable transfer system	180	57.37
3EL1	Silo Bin Vents	900	76.23
4EL1	Silo Direct Loadout	270	61.82
6EL1	South Tripper Buggy	900	76.3
	South Galley Belt Loader		
	North South Belt		
7EL1	South West receiving house enclosed conveyor	360	65.09
9EL1	Truck Dump #3	900	76.23
12EL1	Truck Dump #5	600	71.16
13EL1	Jumbo Silo east tunnel belt	360	65.09
	Jumbo silo west tunnel belt		

	Jumbo silo crossover tunnel belt		
15EL1	Truck Dump #6	360	65.09
4SP1	Salt Conveying	25	35.43
“B” Flaking, 34EX1	Flaking Rolls (#1-#6)	95	50.76
	“B" Flaking N/S drag Conveyor		
	“B” Flaking E/W		
“A’ Flaking 35EX1	Flaking Roll #8-#11	120	53.12
	Flaking Rolls #14		
	“A” Flaking N/S drag conveyor		
	“A” Flaking E/W drag conveyor		
	N/S Run Around drag conveyor		
4EX1	Whole bean scale	156.3	55.87
	‘A’ whole bean leg		
	‘A’ Surge Bin		
	Whole Bean drag		
	‘B’ surge bin		
4EX3	Hull refining screw conveyor	156.3	55.87
	Hull refining process		
	Hull grinding process		
5EX1	Dehulling equipment	156.3	55.87
5EX2	Hot hulling equipment	156.3	55.87
5EX3	Screening aspiration	156.3	55.87
6EX1	Truck meal loadout and rail meal loadout	150	55.44
7EX1	Meal screener	176	57.13
7EX2 – 7EX5	Four (4) Meal grinders	45, each	43.60, each
9EX1	Leg No. 2	125	53.55
	Mixing Conveyor		
	Bin Drag		
10EX1	Leg No.3	333	64.19
	Tunnel drag		
	Meal loadout drag		
11EX1	Kaolin bin	15	25.16
12EX1	Meal loadout bin	540	69.88
16EX1	Belt to storage bowls	93	50.55
16EX2	Large storage bowl	93	50.55
16EX3	Small storage bowl	93	50.55
16EX4	Bean bowl truck loadout	250	60.96
18EX1	Whole bean bins	156.3	55.87
23EX1	Meal Storage Silos	125	53.55
24EX1	‘A’ unit	109.4	52.18
24EX2	'B' unit	109.4	52.18
32EX1	Pelletizer/pellet cooler	10	19.18
32EX2	Total enclosed conveyor	10	19.18
22EX	Millfeed storage bin	156.3	55.87
29EX1	Loadout Bin	10	19.18
16EL1	Natural gas-fired grain dryer #1	75	48.43
17EL1	Natural gas-fired grain dryer #4 and #5	150	55.44
19EL1	Natural gas-fired grain dryer #2	60	46.29

The baghouses, filters, cyclones, dust control oil, and self-cleaning screens shall be in operation at all times their respective facilities are in operation, in order to comply with this limit.

(b) Pursuant to 326 IAC 6-3-1(b)(14), the Lec. Dept. filter aid unit (204RO1), daily use bins (102EO1), filter aid silos (103EO1), and batch enzyme bag unloader (112EO) are not subject to

the requirements of 326 IAC 6-3, since these units have potential emissions less than five hundred fifty-one thousandths (0.551) pounds per hour, each.

Natural Gas Combustion

326 IAC 6-2-1 (Particulate Emission Limitations for Sources of Indirect Heating)

(a) Pursuant to 326 IAC 6-2-1(c), for indirect heating facilities existing and in operation, or received permit to construct, prior to September 21, 1983 and not located in Lake, Porter, Marion, Boone, Hamilton, Hendricks, Johnson, Morgan, Shelby, or Hancock Counties are subject to the requirements of 326 IAC 6-2-3.

The particulate matter emissions (Pt) shall be limited by the following equation:

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

Where:

Pt = Pounds of particulate matter emitted per million British thermal units (lb/MMBtu).

Q = Total source maximum operating capacity rating in 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.

C = Maximum ground level concentration with respect to distance from the point source at the "critical" wind speed for level terrain. This shall equal fifty (50) micrograms per cubic meter for a period not to exceed a sixty (60) minute time period.

a = Plume rise factor which is used to make allowance for less than theoretical plume rise. The value sixty-seven tenths (0.67) shall be used for Q less than or equal to one thousand (1,000) million British thermal units per hour heat input.

N = Number of stacks in fuel burning operation.

h = Stack height in feet. If a number of stacks of different heights exist, the average stack height to represent stacks shall be calculated by weighing each stack height with its particulate matter emission rate as follows:

$$h = \frac{\sum_{i=1}^{N} H_i \times pa_i \times Q}{\sum_{I=1}^{N} pa_i \times Q}$$

Where:

H_i = height of facility i stack, ft.

pa_i = actual controlled emission rate of facility i, (lb/MMBtu), using an emission factor from AP-42 or stack test data. Stacks constructed after January 1, 1971, shall be credited with GEP stack height only. GEP stack height shall be calculated as specified in 326 IAC 1-7.

Q = Heat input capacity of facility i, MMBtu/hr

Pursuant to 326 IAC 6-2-3(d), units which were existing and in operation on or before June 8, 1972, Pt shall not exceed 0.8 lb/MMBtu.

Indirect Heating Units Which Were Existing and in Operation On or Before June 8, 1972						
Facility	Construction Date	Operating Capacity (MMBtu/hr)	Q (MMBtu/hr)	Calculated Pt (lb/MMBtu)	Particulate Limitation, (Pt) (lb/MMBtu)	PM PTE based on AP-42 (lb/MMBtu)
~~1SP1~~	~~1950~~	~~108~~	--	--	--	Removed in 2015
~~2SP1~~	~~1963~~	~~52.75~~	--	--	--	Removed in 2015
3SP1	1968	110.2	270.95	1.21	0.8	0.002
The calculated values for Pt are based on technical support document to TV Renewal 001-39540-00005. Where: Q = The total source capacity rating (MMBtu/hr) of all units existing at the source on June 8, 1972. Note: Emissions units shown in strikethrough were subsequently removed from the source.						

(c) Pursuant to 326 IAC 6-2-1(d), indirect heating facilities which received permit to construct after September 21, 1983 are subject to the requirements of 326 IAC 6-2-4.

The particulate matter emissions (Pt) shall be limited by the following equation:

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

Where:

Pt = Pounds of particulate matter emitted per million British thermal units (lb/MMBtu).

Q = Total source maximum operating capacity rating in 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.

Indirect Heating Units Which Began Operation After September 21, 1983						
Facility	Construction Date (Removal Date)	Operating Capacity (MMBtu/hr)	Q (MMBtu/hr)	Calculated Pt (lb/MMBtu)	Particulate Limitation, (Pt) (lb/MMBtu)	PM PTE based on AP-42 (lb/MMBtu)
Units Operating Prior to 9/21/1983			270.95	--	--	--
~~107EO1~~	~~1992~~	~~25.2~~	--	--	--	Removed in 2018
108EO1	1994	14	310.15	0.24	0.24	0.002
110EO1	2002	14	324.15	0.24	0.24	0.002
~~9SP1~~	~~2013~~	~~99~~	--	--	--	Removed in 2015

Indirect Heating Units Which Began Operation After September 21, 1983						
Facility	Construction Date (Removal Date)	Operating Capacity (MMBtu/hr)	Q (MMBtu/hr)	Calculated Pt (lb/MMBtu)	Particulate Limitation, (Pt) (lb/MMBtu)	PM PTE based on AP-42 (lb/MMBtu)
~~1SP1~~	~~(2015)~~	~~108~~	--	--	--	Constructed in 1950
~~2SP1~~	~~(2015)~~	~~52.75~~	--	--	--	Constructed in 1963
~~9SP1~~	~~(2015)~~	~~99~~	--	--	--	Constructed in 2013
10SP1	2015	178.41	341.81	0.24	0.24	0.002
~~107E01~~	~~(2018)~~	~~25.2~~	--	--	--	Constructed in 1992
Where: Q = Includes the capacity (MMBtu/hr) of the new unit(s) and the capacities for those unit(s) which were in operation at the source at the time the new unit(s) was constructed.						
Note: Emission units shown in strikethrough were subsequently removed from the source. The effect of removing these units on "Q" is shown in the year the boiler was removed.						

(b) The emergency fire pumps, grain dryers, and miscellanous natural gas units are not subject to the requirements of 326 IAC 6-2 because they are not sources of indirect heating.

326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes)
Pursuant to 326 IAC 6-3-1.5(2), the natural gas combustion units are not subject to the requirements of 326 IAC 6-3, since these units do not meet the definition of a manufacturing process and pursuant to 326 IAC 1-2-59, liquid and gaseous fuels and combustion air are not considered as part of the process weight.

326 IAC 7-1.1 Sulfur Dioxide Emission Limitations
This emission unit is not subject to 326 IAC 326 IAC 7-1.1 because it has a potential to emit (or limited potential to emit) sulfur dioxide (SO2) of less than 25 tons per year or 10 pounds per hour.

326 IAC 8-1-6 (VOC Rules: General Reduction Requirements for New Facilities)
Even though, this natural gas combustion units was constructed after January 1, 1980, it is not subject to the requirements of 326 IAC 8-1-6 because its unlimited VOC potential emissions are less than twenty-five (25) tons per year.

326 IAC 9-1 (Carbon Monoxide Emission Limits)
The requirements of 326 IAC 9-1 do not apply to the boilers, because this source does not operate a catalyst regeneration petroleum cracking system or a petroleum fluid coker, grey iron cupola, blast furnace, basic oxygen steel furnace, or other ferrous metal smelting equipment.

326 IAC 10-3 (Nitrogen Oxide Reduction Program for Specific Source Categories)
The requirements of 326 IAC 10-3 do not apply to the boilers, since this unit is not a blast furnace gas-fired boiler, a Portland cement kiln, or a facility specifically listed under 326 IAC 10-3-1(a)(2).

Hexane Extraction System

326 IAC 8-1-6 (VOC Rules: General Reduction Requirements for New Facilities)
The hexane extraction system (24EX) is not subject to the requirements of 326 IAC 8-1-6 because it was constructed before January 1, 1980.

326 IAC 8-6 (Organic Solvent Emission Limitations)

This source is not subject to 326 IAC 8-6 (Organic Solvent Emission Limitations) because it is located in Adams County and was constructed after January 1, 1980.

Consent Decree
Pursuant to 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, the hexane extraction system must comply with the following:

(a) 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:

Compliance Ratio = Actual Solvent Loss (gal) / 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

(b) Solvent losses and quantities of oilseed processed during startup and shutdown periods shall not be excluded in determining solvent losses.

(c) To document the compliance status, 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, in gallons, for each month.
(3) The solvent loss ratio.

Degreasing

326 IAC 8-3-2 (Cold Cleaner Operations)
The cold cleaner degreasing operations are not subject to the requirements of 326 IAC 8-3-2 (Cold Cleaner Operations) because this unit was constructed prior to January 1, 1980, and not located in Clark, Elkhary, Floyd, Lake, Marion, Porter, or St. Joseph Counties.

Compliance Determination and Monitoring Requirements

Permits issued under 326 IAC 2-7 are required to assure 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.

(a) The Compliance Determination Requirements applicable to this source are as follows:

Testing Requirements:

Summary of Testing Requirements					
Emission Unit	**Control Device**	**Timeframe for Testing or Date of Initial Valid Demonstration)**	**Pollutant/ Parameter**	**Frequency of Testing**	**Authority**
Megatex Screener, #1 Scalperator, #2 Scalperator 2EL4	Baghouse	March 5, 2019	PM, PM10	Every 5 years	326 IAC 2-7-5(1) 326 IAC 2-2
Hammermill 2EL2	Baghouse	March 2, 2021	PM,PM10	Every 5 years	326 IAC 2-7-5(1) 326 IAC 2-2
Meal Sizing and Grinding Operation 7EX	Baghouse	March 3, 2021	PM, PM10	Every 5 years	326 IAC 2-7-5(1) 326 IAC 2-2
Hot Dehulling Equipment 5EX2	Baghouse	December 10, 2020	PM, PM10	Every 5 years	326 IAC 2-7-5(1) 326 IAC 2-2
Flaking Rolls 'A', 35EX1	Baghouse	180**	PM, PM10, PM2.5	Every 5 years	326 IAC 2-2
** No later than 180 days after the issuance of this modification.					

(1) IDEM OAQ has determined that testing of the oil suppressants are not required at this time to determine compliance with the PM, PM10 and/or PM2.5 emission limits. IDEM has the authority to require testing at a later time if necessary to demonstrate compliance with any applicable requirement.

(2) IDEM OAQ has determined that testing of the mist oil absorber is not required at this time to determine compliance with the VOC emission limits. IDEM has the authority to require testing at a later time if necessary to demonstrate compliance with any applicable requirement.

(3) IDEM OAQ has determined that testing of the fabric filter and the baghouse are not required at this time to determine compliance with the PM, PM10 and/or PM2.5 emission limits for the Millfeed storage bin and salt conveying operation. IDEM has the authority to require testing at a later time if necessary to demonstrate compliance with any applicable requirement.

Continuous Emissions Monitoring System (CEMS) and Continuous Opacity Monitoring (COM) Requirements:

Emission Unit	**Type of Continuous Monitor (Pollutant Monitored)**	**Applicable Rule or Authority**
B&W Boiler (10SP1)	CEMS (NOx)	326 IAC 3-5 326 IAC 2-7-6(1),(6) 326 IAC 60, Subpart Db

(b) The Compliance Monitoring Requirements applicable to this source are as follows:

Emission Unit / Control Device	Type of Parametric Monitoring	Frequency	Range or Specification
1EL1 / Baghouse	Visible emission notations	Daily	Verify whether emissions are normal or abnormal
2EL4 / Baghouse	Visible emission notations	Daily	Verify whether emissions are normal or abnormal
2EL1 / Baghouse	Visible emission notations	Daily	Verify whether emissions are normal or abnormal
2EL2 / Baghouse	Visible emission notations	Daily	Verify whether emissions are normal or abnormal
2EL3 / Baghouse	Visible emission notations	Daily	Verify whether emissions are normal or abnormal
5EL1 / Baghouse	Visible emission notations	Daily	Verify whether emissions are normal or abnormal
10EL1 / Baghouse	Visible Emission notations	Daily	Verify whether emissions are normal or abnormal
14EL1 / Baghouse and oil suppressant	Visible emission notations	Daily	Verify whether emissions are normal or abnormal
20EL1 / Baghouses	Visible emission notations	Daily	Verify whether emissions are normal or abnormal
6EL1 / Baghouses	Visible emission notations	Daily	Verify whether emissions are normal or abnormal
7EL1 / Baghouses	Visible emission notations	Daily	Verify whether emissions are normal or abnormal
9EL1 / Baghouses	Visible emission notations	Daily	Verify whether emissions are normal or abnormal
12EL1 / Baghouses	Visible emission notations	Daily	Verify whether emissions are normal or abnormal
13EL1 / Baghouses	Visible emission notations	Daily	Verify whether emissions are normal or abnormal
15EL1 / Baghouses	Visible emission notations	Daily	Verify whether emissions are normal or abnormal
4SP1 / Baghouses	Visible emission notations	Daily	Verify whether emissions are normal or abnormal
34EX1 / Baghouses	Visible emission notations	Daily	Verify whether emissions are normal or abnormal
35EX1 / Baghouses	Visible emission notations	Daily	Verify whether emissions are normal or abnormal
4EX1 / Baghouses	Visible emission notations	Daily	Verify whether emissions are normal or abnormal
4EX3 / Baghouses	Visible emission notations	Daily	Verify whether emissions are normal or abnormal
5EX1 / Baghouses	Visible emission notations	Daily	Verify whether emissions are normal or abnormal
5EX2 / Baghouses	Visible emission notations	Daily	Verify whether emissions are normal or abnormal

Emission Unit / Control Device	Type of Parametric Monitoring	Frequency	Range or Specification
5EX3 / Baghouses	Visible emission notations	Daily	Verify whether emissions are normal or abnormal
6EX1 / Baghouses	Visible emission notations	Daily	Verify whether emissions are normal or abnormal
7EX1-5 / Baghouses	Visible emission notations	Daily	Verify whether emissions are normal or abnormal
9EX1 / Baghouses	Visible emission notations	Daily	Verify whether emissions are normal or abnormal
10EX1 / Baghouses	Visible emission notations	Daily	Verify whether emissions are normal or abnormal
11EX1 / Baghouses	Visible emission notations	Daily	Verify whether emissions are normal or abnormal
12EX1 / Baghouses	Visible emission notations	Daily	Verify whether emissions are normal or abnormal
23EX1 / Bin Vent Filter	Visible emission notations	Daily	Verify whether emissions are normal or abnormal
32EX1 / Cyclone	Visible emission notations	Daily	Verify whether emissions are normal or abnormal
22EX / Baghouse	Visible emission notations	Daily	Verify whether emissions are normal or abnormal
24EX1 / Cyclone	Visible emission notations	Daily	Verify whether emissions are normal or abnormal
24EX2 / Cyclone	Visible emission notations	Daily	Verify whether emissions are normal or abnormal
24EX4a and 24EX4b / Mineral oil absorber inlet	Visible emission notations	Daily	Verify whether emissions are normal or abnormal
Hexane Extraction System (24EX), Mineral Oil Absorber	Mineral Oil Flow Rate	Daily	Within normal range until stack test results are available, then within the normal range established in the most recent compliant stack test*
	Temperature	Continuous	At or above 180 °F from startup (or permit issuance) until stack test results are available, then at or above the value established in the most recent compliant stack test*

These monitoring conditions are necessary because the baghouses, mineral oil absorber and the cyclones for their respective units must operate properly to assure compliance with 326 IAC 2-2 and 326 IAC 6-3-2 and some units to comply with 40 CFR 64 (CAM).

Proposed Changes

As part of this permit approval, the permit may contain new or different permit conditions and some conditions from previously issued permits/approvals may have been corrected, changed, or removed. These corrections, changes, and removals may include Title I changes.

The following changes were made to conditions contained previously issued permits/approvals (these changes may include Title I changes):

(1) In Section A.2, the new unit descriptions for the millfeed storage bin filter (22EX), new flaking rolls (#8 through #11), and salt conveying (4SP1) throughput have been added to the permit and flaking roll #14 has been moved from flaking 'B' to flaking 'A'.

(2) In Section A.3, the exempt fire pump has been added to the permit.

(3) Sections D.5 and D.6 have been incorporated into sections D.1 and D.2.

(4) Section D.1 has been modified to include the revised limits for 326 IAC 6-3-2.

(5) Section D.2.1 has been modified to add in the new PSD limits for the millfeed storage bin (22EX), flaking rolls 'A' (35EX1), and salt conveying (4SP1).

(6) Section D.2.5 has been modified to add testing requirements for flaking rolls 'A' (35EX1).

(7) Section E.2 was modified to update the federal rule citations since the previous citations were for steam generators fueled by coal and other fuels and not generators that are only fueled by natural gas.

(8) The new exempt fire pump has been added to the emission unit descriptions of Sections E.4 and E.6 since this unit is subject to the requirements of 40 CFR 60, Subpart IIII and 40 CFR 63, Subpart ZZZZ.

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:

***

(t) Salt conveying, identified as 4SP1, constructed in 1981 **and modified in 2023**, with a maximum throughput of ~~21~~ **25** tons per hour, using a baghouse for PM control, and exhausting to stack 4SP.

(u) The following soybean processing equipment together identified as “B” Flaking, 34EX1, approved in 2015 to replace baghouse (1EX) with a more efficient baghouse (34EX) for PM control, exhausting to stack 34EX.

(1) Six (6) flaking rolls, #1, #2, #3, #4, #5 and #6, constructed in 1991, each having a maximum throughput of 12.5 tons per hour (75 tons per hour total).

(~~3~~**2**) One (1) “B” Flaking N/S drag conveyor constructed in 1991, having a maximum throughput of 78 tons per hour.

(4**3**) One (1) “B” Flaking E/W drag conveyor constructed in 1980, having a maximum throughput of 95 tons per hour.

(v) The following soybean processing equipment together identified as “A” Flaking, 35EX1, approved in 2015 to install a dedicated baghouse (35EX) for PM control, exhausting to stack 35EX.

~~(1) One (1) flaking roll, #8, constructed in 1981, having a maximum throughput of 16.67 tons per hour.~~

~~(2) Four flaking rolls, #9, #10, #11, #12, constructed in 1978, each having a maximum throughput of 10.41 tons per hour (41.64 tons per hour total).~~

~~(3) One (1) flaking roll, #13, constructed in 1985, having a maximum throughput of 16.67 tons per hour.~~

(1) Four (4) flaking rolls, #8, #9, #10, and #11, constructed in 2023, having a maximum throughput of 25.26 tons per hour.

(2) One flaking roll, #14, constructed in 1991, having a maximum throughput of 12.5 tons per hour.

(~~4~~**3**) One (1) "A" Flaking N/S drag conveyor constructed in 1993, having a maximum throughput of 78 tons per hour.

(~~5~~**4**) One (1) "A" Flaking E/W drag conveyor constructed in 1993, having a maximum throughput of 95 tons per hour.

(~~6~~**5**) One N/S Run Around drag conveyor constructed in 1984, having a maximum throughput of 120 tons per hour.

***

(pp) One (1) Millfeed storage bin, identified as 22EX, with a maximum capacity of 156.3 tons/hr, using a ~~fabric filter~~ **baghouse replaced in 2022** as control, and exhausting to stack 22EX.

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):

***

(b) Stationary fire pumps, as follows;

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

Under 40 CFR 63, Subpart ZZZZ, these fire pump engines are considered affected facilities.

(2) One (1) stationary diesel-fired emergency fire pump engine, permitted in 2019, with a maximum power output rate of 305 hp.

Under 40 CFR 60, Subpart IIII, this fire pump engine is considered an affected facility.
Under 40 CFR 63, Subpart ZZZZ, this fire pump engine is considered a new affected facility.

(3) One (1) stationary diesel-fired emergency fire pump engine constructed in 2019 and permitted in 2024, with a maximum power output rate of 305 hp.

Under 40 CFR 60, Subpart IIII, this fire pump engine is considered an affected facility.
Under 40 CFR 63, Subpart ZZZZ, this fire pump engine is considered a new affected facility.

***

SECTION D.2 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

(t) Salt conveying, identified as 4SP1, constructed in 1981 **and modified in 2023**, with a maximum throughput of ~~21~~ **25** tons per hour, using a baghouse for PM control, and exhausting to stack 4SP.

(u) The following soybean processing equipment together identified as "B" Flaking, 34EX1, approved in 2015 to replace baghouse (1EX) with a more efficient baghouse (34EX) for PM control, exhausting to stack 34EX.

(1) Six (6) flaking rolls, #1, #2, #3, #4, #5 and #6, constructed in 1991, each having a maximum throughput of 12.5 tons per hour (75 tons per hour total).

~~(2) One flaking roll, #14, constructed in 1991, having a maximum throughput of 12.5 tons per hour.~~

(~~3~~**2**) One (1) "B" Flaking N/S drag conveyor constructed in 1991, having a maximum throughput of 78 tons per hour.

(~~4~~**3**) One (1) "B" Flaking E/W drag conveyor constructed in 1980, having a maximum throughput of 95 tons per hour.

(v) The following soybean processing equipment together identified as "A" Flaking, 35EX1, approved in 2015 to install a dedicated baghouse (35EX) for PM control, exhausting to stack 35EX.

~~(1) One (1) flaking roll, #8, constructed in 1981, having a maximum throughput of 16.67 tons per hour.~~

~~(2) Four flaking rolls, #9, #10, #11, #12, constructed in 1978, each having a maximum throughput of 10.41 tons per hour (41.64 tons per hour total).~~

~~(3) One (1) flaking roll, #13, constructed in 1985, having a maximum throughput of 16.67 tons per hour.~~

(1) Four (4) flaking rolls, #8, #9, #10, and #11, constructed in 2023, having a maximum throughput of 16.67 tons per hour.

(2) One flaking roll, #14, constructed in 1991, having a maximum throughput of 12.5 tons per hour.

(~~4~~**3**) One (1) "A" Flaking N/S drag conveyor constructed in 1993, having a maximum throughput of 78 tons per hour.

(~~5~~**4**) One (1) "A" Flaking E/W drag conveyor constructed in 1993, having a maximum throughput of 95 tons per hour.

(~~6~~**5**) One N/S Run Around drag conveyor constructed in 1984, having a maximum throughput of 120 tons per hour.

***

(pp) One (1) Millfeed storage bin, identified as 22EX, with a maximum capacity of 156.3 tons/hr, using fabric filter replaced in 2022 as control, and exhausting to stack 22EX.

***

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

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

***

(c) In order to render the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) not applicable, the Permittee shall comply with the following:

(1) The PM, PM10, and PM2.5 emissions shall not exceed the following:

Emission Unit	EU ID	PM Limit (lb/hr)	PM10 Limit (lb/hr)	PM2.5 Limit (lb/hr)
Millfeed Storage Bin	**22EX**	**0.05**	**0.05**	**0.05**
Flaking Rolls 'A'	**35EX1**	**0.31**	**0.31**	**.31**
Salt Conveying	**4SP1**	**0.03**	**0.03**	**0.03**

Compliance with these limits shall limit the potential to emit from the Millfeed storage bin (22EX), flaking rolls 'A' (35EX1) and salt conveying (4SP1) issued under the SSM No. 001-47589-00005 of PM to less than twenty-five (25) tons per twelve (12) consecutive month period and PM10 to less than fifteen (15) tons per twelve (12) consecutive month period, each, and shall render the requirements of 326 IAC 2-2 (PSD) not applicable.

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:

Summary Process Weight Rate Limits			
Emission Unit ID	Process / Emission Unit	P (ton/hr)	E (lb/hr)
3EL1	Silo Bin Vents	900	76.23
4EL1	Silo Direct Loadout	270	61.82
6EL1	South Tripper Buggy	900	76.3
	South Galley Belt Loader		
	North South Belt		
7EL1	South West receiving house enclosed conveyor	360	65.09
9EL1	Truck Dump #3	900	76.23
12EL1	Truck Dump #5	600	71.16
13EL1	Jumbo Silo east tunnel belot	360	65.09
	Jumbo silo west tunnel belt		
	Jumbo silo crossover tunnel belt		
15EL1	Truck Dump #6	360	65.09
4SP1	Salt Conveying	~~21~~**25**	~~31.53~~**35.43**
"B" Flaking, 34EX1	Flaking Rolls (#1-#6)	95	50.76
	"B Flaking N/S drag Conveyor		
	"B" Flaking E/W		
"A' Flaking 35EX1	Flaking Roll #8-#11	~~75~~**120**	~~48.43~~**53.12**
	Flaking Rolls #14		
	"A" Flaking N/S drag conveyor		
	"A" Flaking E/W drag conveyor		
	N/S Run Around drag conveyor		
4EX1	Whole bean scale	156.3	55.87
	'A' whole bean leg		
	'A' Surge Bin		
	Whole Bean drag		
	'B' surge bin		

4EX3	Hull refining screw conveyor	156.3	55.87
	Hull refining process		
	Hull grinding process		
5EX1	Dehulling equipment	156.3	55.87
5EX2	Hot hulling equipment	156.3	55.87
5EX3	Screening aspiration	156.3	55.87
6EX1	Truck meal loadout and rail meal loadout	150	76.23
7EX1	Meal screener	176	57.13
7EX2 – 7EX5	Four (4) Meal grinders	45, each	43.60
9EX1	Leg No. 2	125	53.55
	Mixing Conveyor		
	Bin Drag		
10EX1	Leg No.3	333	64.19
	Tunnel drag		
	Meal loadout drag		
11EX1	Kaolin bin	15	25.16
12EX1	Meal loadout bin	540	69.88
16EX1	Belt to storage bowls	93	50.55
16EX2	Large storage bowl	93	50.55
16EX3	Small storage bowl	93	50.55
16EX4	Bean bowl truck loadout	250	60.96
18EX1	Whole bean bins	156.3	55.87
23EX1	Meal Storage Silos	125	53.55
24EX1	'A' unit	109.4	52.18
24EX2	'B' unit	109.4	52.18
32EX1	Pelletizer/pellet cooler	10	19.18
32EX2	Total enclosed conveyor	10	19.18
22EX	Millfeed storage bin	156.3	55.87
29EX1	Loadout Bin	10	19.18
16EL1	Natural gas-fired grain dryer #1	75	48.43
17EL1	Natural gas-fired grain dryer #4 and #5	150	55.44
19EL1	Natural gas-fired grain dryer #2	60	46.29

***

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

D.2.4 Particulate Control

(a) In order to assure compliance with Conditions D.2.1 and D.2.2, the baghouses and filters for particulate control shall be in operation and control emissions from the following facilities at all times the associated facility is in operation:

Emission Unit ID	Process / Emission Unit
9EL1	Truck Dump #3
12EL1	Truck Dump #5
13EL1	Jumbo Silo east tunnel belot
	Jumbo silo west tunnel belt
	Jumbo silo crossover tunnel belt
15EL1	Truck Dump #6
4SP1	Salt Conveying
"B" Flaking, 34EX1	Flaking Rolls (#1-#6)
	"B Flaking N/S drag Conveyor
	"B" Flaking E/W

"A' Flaking 35EX1	Flaking Rolls #8, #9, #10, #11
	Flaking Roll #14
	"A" Flaking N/S drag conveyor
	"A" Flaking E/W drag conveyor
	N/S Run Around drag conveyor
4EX1	Whole bean scale
	'A' whole bean leg
	'A' Surge Bin
	Whole Bean drag
	'B' surge bin
4EX3	Hull refining screw conveyor
	Hull refining process
	Hull grinding process
5EX1	Dehulling equipment
5EX2	Hot hulling equipment
5EX3	Screening aspiration
6EX1	Truck meal loadout and rail meal loadout
7EX1	Meal screener
7EX2 – 7EX5	Four (4) Meal grinders
9EX1	Leg No. 2
	Mixing Conveyor
	Bin Drag
10EX1	Leg No.3
	Tunnel drag
	Meal loadout drag
11EX1	Kaolin bin
12EX1	Meal loadout bin
23EX1	Meal Storage Silos
24EX1	'A' unit
24EX2	'B' unit
22EX	**Millfeed storage bin**
29EX1	Loadout Bin
16EL1	Natural gas-fired grain dryer #1
17EL1	Natural gas-fired grain dryer #4 and #5
19EL1	Natural gas-fired grain dryer #2

***

D.2.5 Testing Requirements [326 IAC 2-1.1-11]

***

(c) In order to demonstrate compliance with Condition D.2.1(c)(2), not later than 180 days after the issuance of this SSM 001-47589-00005, the Permittee shall perform PM. PM10, and PM2.5 testing of the Flaking Rolls 'A', 35EX1, utilizing methods approved by the commissioner at least once every 5 years from the date of the most recent valid compliance demonstration. PM_{10} and $PM_{2.5}$ includes filterable and condensable PM.

***

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

D.2.6 Visible Emissions Notations

(a) Visible emission notations of the following grain handling and grain drying stack exhausts shall be performed once per day during normal daylight operations. A trained employee shall record whether emissions are normal or abnormal:

Stack Exhaust ID	Emission Unit ID	Process / Emission Unit
9EL	9EL1	Truck Dump #3
12EL	12EL1	Truck Dump #5
13EL	13EL1	Jumbo Silo east tunnel belot
		Jumbo silo west tunnel belt
		Jumbo silo crossover tunnel belt
15EL	15EL1	Truck Dump #6
4SP	4SP1	Salt Conveying
34EX	"B" Flaking, 34EX1	Flaking Rolls (#1-#6)
		"B Flaking N/S drag Conveyor
		"B" Flaking E/W
35EX	"A' Flaking 35EX1	Flaking Roll #8, #9, #10, #11
		Flaking Rolls #14
		"A" Flaking N/S drag conveyor
		"A" Flaking E/W drag conveyor
		N/S Run Around drag conveyor
4EX	4EX1	Whole bean scale
		'A' whole bean leg
		'A' Surge Bin
		Whole Bean drag
		'B' surge bin
	4EX3	Hull refining screw conveyor
		Hull refining process
		Hull grinding process
5EX	5EX1	Dehulling equipment
33EX	5EX2	Hot hulling equipment
5EX	5EX3	Screening aspiration
6EX	6EX1	Truck meal loadout and rail meal loadout
7EX	7EX1	Meal screener
	7EX2 – 7EX5	Four (4) Meal grinders
9EX	9EX1	Leg No. 2
		Mixing Conveyor
		Bin Drag
10EX	10EX1	Leg No.3
		Tunnel drag
		Meal loadout drag
11EX	11EX1	Kaolin bin
12EX	12EX1	Meal loadout bin
23EX	23EX1	Meal Storage Silos
24EX1	24EX1	'A' unit
24EX2	24EX2	'B' unit
22EX	**22EX**	**Millfeed storage bin**
29EX	29EX1	Loadout Bin
16EL	16EL1	Natural gas-fired grain dryer #1
17EL	17EL1	Natural gas-fired grain dryer #4 and #5
19EL	19EL1	Natural gas-fired grain dryer #2

***

SECTION E.4 NSPS

Emissions Unit Description:

Insignificant Activities:

(b) Stationary fire pump, as follows;

(2) One (1) stationary diesel-fired emergency fire pump engine, permitted in 2019, with a maximum power output rate of 305 hp.

Under 40 CFR 60, Subpart IIII, this unit is considered an affected facility.
Under 40 CFR 63, Subpart ZZZZ, this unit is considered a new affected facility.

(3) One (1) stationary diesel-fired emergency fire pump engine constructed in 2019 and permitted in 2024, with a maximum power output rate of 305 hp.

Under 40 CFR 60, Subpart IIII, this fire pump engine is considered an affected facility.
Under 40 CFR 63, Subpart ZZZZ, this fire pump engine is considered a new affected facility.

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

***

SECTION E.7 NESHAP

Emissions Unit Description:

Insignificant Activities:

(b) Stationary fire pumps, as follows;

***

(3) One (1) stationary diesel-fired emergency fire pump engine constructed in 2019 and permitted in 2024, with a maximum power output rate of 305 hp.

Under 40 CFR 60, Subpart IIII, this fire pump engine is considered an affected facility.
Under 40 CFR 63, Subpart ZZZZ, this fire pump engine is considered a new affected facility.

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

***

E.7.2 Stationary Reciprocating Internal Combustion Engines NESHAP [40 CFR Part 63, Subpart ZZZZ] [326 IAC 20-82]

The Permittee shall comply with the following provisions of 40 CFR Part 63, Subpart ZZZZ (included as Attachment G to the operating permit). which are incorporated by reference as 326 IAC 20-82, for the emission units listed above:

***

(b) ~~The 305 hp diesel-fired emergency fire pump engine is considered a new stationary RICE and is subject to the following portions of Subpart ZZZZ~~ **Two (2) stationary diesel-fired emergency fire pumps, constructd in 2019**:

(1) 40 CFR 63.6580;
(2) 40 CFR 63.6585(a), (b);
(3) 40 CFR 63.6590(c)(6);
(4) 40 CFR 63.6595(a)(5), (c);
(5) 40 CFR 63.6665;
(6) 40 CFR 63.6670, and
(7) 40 CFR 63.6675

***

Conclusion and Recommendation

Unless otherwise stated, information used in this review was derived from the application and additional information submitted by the applicant. An application for the purposes of this review was received on October 27, 2023.

The construction of this proposed modification shall be subject to the conditions of the attached proposed Part 70 Significant Source Modification No. 001-47859-00005.

The operation of this stationary grain handling, soybean meal production, and soybean oil extraction plant shall be subject to the conditions of the attached proposed Part 70 Operating Permit Renewal No. October 27, 2023.

The staff recommends to the Commissioner that the Part 70 Operating Permit Renewal and Significant Source Modification be approved.

IDEM Contact

(a) If you have any questions regarding this permit, please contact Maddison Hite, 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) 233-4972 or (800) 451-6027, and ask for Maddison Hite or (317) 233-4972.

(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 Air Permits page on the Internet at: https://www.in.gov/idem/airpermit/public-participation/; and the Citizens' Guide to IDEM on the Internet at: https://www.in.gov/idem/resources/citizens-guide-to-idem/.

Appendix A: Emissions Calculations
PTE Summary

Company Name: Bunge North America (East), LLC
Source Address: 1200 N. 2nd Street, Decatur, Indiana 46733
Renewal Number: 001-47174-00005
SSM Number: 001-47589-00005
Reviewer: Maddison Hite

Uncontrolled Potential to Emit (tons/yr)									
Emissions Unit	**PM**	**PM10**	**PM2.5 ***	**SO_2**	**NOx**	**VOC**	**CO**	**Hexane**	**Total HAPs****
VacBoss Portable Material Transfer System, 21EL1	67.80	22.86	3.86	--	--	--	--	--	--
Grain Elevator (EL)	2,735.57	2,297.31	1,343.79	--	--	--	--	--	--
Hexane Extraction System (24EX)	3343.66	3343.66	1260.56	--	--	435.07	--	435.07	435.07
Milling & Extraction	1095.94	883.03	816.03	--	--	--	--	--	--
Natural Gas Combustion	***	***	***	0.07	12.02	0.66	10.10	0.22	0.23
Salt Handling, Enzyme, Etc. Operations	15.08	15.08	15.08	--	--	--	--	--	--
Insignificant Activities									
Fire Pumps	0.54	0.54	0.54	0.51	7.67	0.62	1.65	--	0.01
Vehicle Refueling Operations	--	--	--	--	--	4.39	--	--	--
Tanks	--	--	--	--	--	1.75	--	1.75	1.75
Cooling Tower	0.31	0.27	0.27	--	--	--	--	--	--
Degreasing	--	--	--	--	--	0.49	--	--	--
Total Excluding Fugitives	**7,258.92**	**6,562.76**	**3,440.14**	**0.58**	**19.70**	**442.97**	**11.75**	**437.03**	**437.05**
Fugitive Emissions (pre-1980 NSPS/NESHAP)									
Grain Elevator (fugitives)	182.67	54.16	9.19	--	--	--	--	--	--
Milling & Extraction (fugitives)	26.61	3.94	0.26	--	--	--	--	--	--
Pre-1980 NESHAP Fugitives	*209.28*	*58.10*	*9.45*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*
Total Excluding Non-NSPS Fugitives	**7,468.20**	**6,620.86**	**3,449.59**	**0.58**	**19.70**	**442.97**	**11.75**	**437.03**	**437.05**
Additional Fugitive Emissions									
Paved Roads	*15.49*	*3.10*	*0.76*						
Total Fugitives	***15.49***	***3.10***	***0.76***	***0.00***	***0.00***	***0.00***	***0.00***	***0.00***	***0.00***

** PM2.5 listed is direct PM2.5*
***Fugitve HAP emissions are always included in the source-wide emissions*
*** PM/PM10/PM2.5 Emissions are calculated into the grain elevator emissions

Source-Wide Total HAPs: **437.05**

Potential to Emit after Control (tons/yr)									
Emissions Unit	**PM**	**PM10**	**PM2.5 ***	**SO_2**	**NOx**	**VOC**	**CO**	**Hexane**	**Total HAPs**
VacBoss Portable Material Transfer System, 21EL1	67.80	22.86	3.86	--	--	--	--	--	--
Grain Elevator (EL)	36.58	25.74	15.32	--	--	--	--	--	--
Hexane Extraction System (24EX)	13.37	13.37	5.04	--	--	4.35	--	4.35	4.35
Milling & Extraction	159.77	88.13	40.67	--	--	--	--	--	--
Natural Gas Combustion	***	***	***	0.07	12.02	0.66	10.10	0.22	0.23
Boilers	0.92	3.67	3.67	0.29	48.27	2.65	40.54	2.28	2.39
Salt Handling, Enzyme, Etc. Operations	0.49	0.49	0.49	--	--	--	--	--	--
Insignificant Activities									
Fire Pumps	0.54	0.54	0.54	0.51	7.67	0.62	1.65	--	0.01
Vehicle Refueling Operations	--	--	--	--	--	4.39	--	--	--
Tanks	--	--	--	--	--	1.75	--	1.75	1.75
Cooling Tower	0.31	0.27	0.27	--	--	--	--	--	--
Degreasing	--	--	--	--	--	0.49	--	--	--
Total Excluding Fugitives	**279.79**	**155.08**	**69.87**	**0.87**	**67.96**	**14.91**	**52.30**	**8.59**	**8.72**
Fugitive Emissions (pre-1980 NSPS/NESHAP)									
Grain Elevator (fugitives)	182.67	54.16	9.19	--	--	--	--	--	--
Milling & Extraction (fugitives)	26.61	3.94	0.26	--	--	--	--	--	--
Pre-1980 NESHAP Fugitives	*209.28*	*58.10*	*9.45*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*
Total Excluding Non-NSPS Fugitives	**489.07**	**213.18**	**79.32**	**0.87**	**67.96**	**14.91**	**52.30**	**8.59**	**8.72**
Additional Fugitive Emissions									
Paved Roads	15.49	3.10	0.76	--	--	--	--	--	--
Total Fugitives	**224.77**	**61.20**	**10.21**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

** PM2.5 listed is direct PM2.5*
*** PM/PM10/PM2.5 Emissions are calculated into the grain elevator emissions

Potential to Emit after Issuance (tons/yr)									
Emission Unit	**PM**	**PM10**	**PM2.5 ***	**SO_2**	**NOx**	**VOC**	**CO**	**Hexane**	**Total HAPs****
VacBoss Portable Material Transfer System, 21EL1	11.61	3.92	0.66	--	--	--	--	--	--
Grain Elevator (EL)	2554.88	2218.77	1349.57	--	--	--	--	--	--
Hexane Extraction System (24EX)	59.48	59.48	1260.56	--	--	435.07	--	435.07	435.07
Milling & Extraction	291.17	189.54	816.03	--	--	--	--	--	--
Natural Gas Combustion	***	***	***	0.07	12.02	0.66	10.10	0.22	0.23
Boilers	0.92	3.67	3.67	0.29	48.27	2.65	40.54	2.28	2.39
Salt Handling, Enzyme, Etc. Operations	15.08	15.08	15.08	--	--	--	--	--	--
Insignificant Activities									
Fire Pumps	0.54	0.54	0.54	0.51	7.67	0.62	1.65	--	0.01
Vehicle Refueling Operations	--	--	--	--	--	4.39	--	--	--
Tanks	--	--	--	--	--	1.75	--	1.75	1.75
Cooling Tower	0.31	0.27	0.27	--	--	--	--	--	--
Degreasing	--	--	--	--	--	0.49	--	--	--
Total Excluding Fugitives	**2,934.00**	**2,491.27**	**3,446.39**	**0.87**	**67.96**	**445.63**	**52.30**	**439.30**	**439.43**
Fugitive Emissions (pre-1980 NSPS/NESHAP)									
Grain Elevator (fugitives)	182.67	54.16	9.19	--	--	--	--	--	--
Milling & Extraction (fugitives)	26.61	3.94	0.26	--	--	--	--	--	--
Pre-1980 NESHAP Fugitives	*209.28*	*58.10*	*9.45*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*
Total Excluding Non-NSPS Fugitives	**3,143.28**	**2,549.37**	**3,455.84**	**0.87**	**67.96**	**445.63**	**52.30**	**439.30**	**439.43**
Additional Fugitive Emissions									
Paved Roads	15.49	3.10	0.76	--	--	--	--	--	--
Total Fugitives	**224.77**	**61.20**	**10.21**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

** PM2.5 listed is direct PM2.5*
***Fugitve HAP emissions are always included in the source-wide emissions*
*** PM/PM10/PM2.5 Emissions are calculated into the grain elevator emissions
Note: The gray shaded cells indicate where limits are included.

Source-Wide Total HAPs: **439.43**

Appendix A: Emissions Calculations
Nested Source Category

Company Name: Bunge North America (East), LLC
Source Address: 1200 N. 2nd Street, Decatur, Indiana 46733
Renewal Number: 001-47174-00005
SSM Number: 001-47589-00005
Reviewer: Maddison Hite

Uncontrolled Potential to Emit (tons/yr)									
Emissions Unit	**PM**	**PM10**	**PM2.5 ***	**SO_2**	**NOx**	**VOC**	**CO**	**Hexane**	**Total HAPs****
1 of 28 (Nested Source)									
Boilers	0.92	3.67	3.67	0.29	48.27	2.65	40.54	2.28	2.39
Insignificant Steam Generators	0.23	0.91	0.91	0.07	12.02	0.66	10.10	0.22	0.23
Total Nested Source Category	**1.15**	**4.58**	**4.58**	**0.36**	**60.29**	**3.32**	**50.64**	**2.49**	**2.61**

Appendix A: Emissions Calculations
PTE Increase

Company Name: Bunge North America (East), LLC
Source Address: 1200 N. 2nd Street, Decatur, Indiana 46733
Renewal Number: 001-47174-00005
SSM Number: 001-47589-00005
Reviewer: Maddison Hite

Uncontrolled Potential to Emit (tons/yr)									
Emissions Unit		**PM**	**PM10**	**PM2.5 ***	**SO_2**	**NOx**	**VOC**	**CO**	**Total HAPs****
New Units									
Salt Conveying		13.14	13.14	13.14	--	--	--	--	--
Flaking Roll 8		10.95	5.48	5.48	--	--	--	--	--
Flaking Roll 9		10.95	5.48	5.48	--	--	--	--	--
Flaking Roll 10		10.95	5.48	5.48	--	--	--	--	--
Flaking Roll 11		10.95	5.48	5.48	--	--	--	--	--
Total New Units		*56.95*	*35.04*	*35.04*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*
Modified Units									
Millfeed storage bin	Before	5.63	5.63	5.63	--	--	--	--	--
	After	22.53	22.53	22.53	--	--	--	--	--
PTE Increase		*16.90*	*16.90*	*16.90*	--	--	--	--	--
Total		**73.84**	**51.94**	**51.94**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Appendix A: Emissions Calculations
PTE Increase

Company Name: Bunge North America (East), LLC
Source Address: 1200 N. 2nd Street, Decatur, Indiana 46733
Renewal Number: 001-47174-00005
SSM Number: 001-47589-00005
Reviewer: Maddison Hite

1.0 Existing Emission Units

Existing Emissions Unit ATPA (tons/year)									
Process/Emissions Unit	**PM**	**PM10**	**PM2.5**	**SO2**	**NOx**	**VOC**	**CO**	**GHG**	**Other**
Millfeed storage bin									
PTE	0.23	0.23	0.11	-	-	-	-	-	-
Baseline Actual Emissions	0.04	0.04	0.02	-	-	-	-	-	-
ATPA	**0.19**	**0.19**	**0.09**	**-**	**-**	**-**	**-**	**-**	**-**
Flaking Line A									
PTE	1.35	1.35	0.68	-	-	-	-	-	-
Baseline Actual Emissions	1.28	1.28	0.64	-	-	-	-	-	-
ATPA	**0.07**	**0.07**	**0.03**	**-**	**-**	**-**	**-**	**-**	**-**
Salt Conveying									
PTE	0.13	0.13	0.13	-	-	-	-	-	-
Baseline Actual Emissions	0.13	0.13	0.13	-	-	-	-	-	-
ATPA	**0.00**	**0.00**	**0.00**	**-**	**-**	**-**	**-**	**-**	**-**

Project Emissions Increase (tons/year)									
Process/Emissions Unit	**PM**	**PM10**	**PM2.5**	**SO2**	**NOx**	**VOC**	**CO**	**GHG**	**Other**
Millfeed Storage Bin (ATPA)*	0.19	0.19	0.09	-	-	-	-	-	-
Flaking Line A (ATPA)	0.07	0.07	0.03	-	-	-	-	-	-
Salt Conveying (ATPA)	0.00	0.00	0.00	-	-	-	-	-	-
Project Emissions Increase	**0.26**	**0.26**	**0.13**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Significant Levels	25	15	10	40	40	40	100	5,000 CO2	xx

*The source has opted to take limits in order to render the requirements of 326 IAC 2-2 not applicable to this modification. This unit must operate with it's control device in order to render 326 IAC 2-2 not applicable

Appendix A: Emissions Calculations
Millfeed Storage Bin ATPA

Company Name: **Bunge North America (East), LLC**
Source Address: **1200 N. 2nd Street, Decatur, Indiana 46733**
Renewal Number: **001-47174-00005**
SSM Number: **001-47589-00005**
Reviewer: **Maddison Hite**

Past Actual Jul 2017-Jun 2019

Hours of operation-millfeed bin	(hours/24-month)		16,776
Maximum Transfer Rate/hour	14	tons/hr	
Average Transfer Rate/hour	14	tons/hr	
Capture Efficiency	100	%	completely enclosed aspiration system
Operation	8,760	hours/year	
Grain Loading	0.0020	grain/dscf	expected exhaust concentration
Baghouse Fan Flow Rate	500	scfm	Before Change
Baghouse Fan Flow Rate	3,000	scfm	After Change
PM2.5:PM10 Ratio	0.5000	controlled:	conservatively based on baghouse stack test data

Baseline Actual Emissions

	PM (lb/hr)	PM10 (lb/hr)	PM2.5 (lb/hr)	PM (ton/yr)	PM10 (ton/yr)	PM2.5 (ton/yr)
Baghouse Emissions 24-month	0.01	0.01	0.00	0.07	0.07	0.04
Baghouse Emissions annual				0.04	0.04	0.02
Uncontrolled Emissions Annual				3.59	3.59	1.80

lb/hr= G x Q x 60/7000; ton/yr = G x Q x 60/7000x H hr/year/2000

Potential to Emit Emissions After Change

	PM (lb/hr)	PM10 (lb/hr)	PM2.5 (lb/hr)	PM (ton/yr)	PM10 (ton/yr)	PM2.5 (ton/yr)
Controlled Potential Emissions	0.05	0.05	0.03	0.23	0.23	0.11
Uncontrolled Potential Emissions Annual				22.53	22.53	11.26

Emissions Comparison Actual to Future Potential

	Controlled			Uncontrolled		
	PM (ton/yr)	PM10 (ton/yr)	PM2.5 (ton/yr)	PM (ton/yr)	PM10 (ton/yr)	PM2.5 (ton/yr)
Actual	0.04	0.04	0.02	3.59	3.59	1.80
Future Potential	0.23	0.23	0.11	22.53	22.53	11.26
Emission Change	0.19	0.19	0.09	18.93	18.93	9.47

Appendix A: Emissions Calculations
Flaking Rolls ATPA

Company Name: Bunge North America (East), LLC
Source Address: 1200 N. 2nd Street, Decatur, Indiana 46733
Renewal Number: 001-47174-00005
SSM Number: 001-47589-00005
Reviewer: Maddison Hite

Flaking A: Flaking rolls			
Emission Unit	**Existing**	**Modification**	**Explanation**
Flaking Roll 8	16.67	25.26	New roll
Flaking Roll 9	10.41	25.26	New roll
Flaking Roll 10	10.41	25.26	New roll
Flaking Roll 11	10.41	25.26	New roll
Flaking Roll 12	10.41	--	Removed
Flaking Roll 13	16.67	--	Removed
Flaking Roll 14	--	12.5	Moved from Flaking B to Flaking A
Flaker Design Rate	**74.98**	**113.54**	

Existing Flaking Rolls 'A' (Actual)

	Past Actual Jul 2017-Jun 2019		
Flaker Design Rate Total	74.98	tons/hr	
Capture Efficiency	100	%	all enclosed and aspirated
Operation	16,656	hours/24-month	
PM/PM10 Grain Loading	0.002	grain/dscf	expected baghouse grainloading
PM2.5 Grain Loading	0.001	grain/dscf	PM2.5 is 50% PM10 conservatively based on stack test data
Exhaust Fan Flow Rate	18,000	dscfm	

Baseline Actual Emissions

					Emission Factors			Unrestricted Emissions			Controlled Emissions - 24 Months									Annual Controlled Emissions		
Stack ID	**Process / Units**	**SCC**	**Hours (July 2017-June 2019)**	**Max Throughput**	**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**	**PM10**	**PM2.5**
			(hrs/24-month)	*(tons/hr)*	*(lb/ton)*	*(lb/ton)*	*(lb/ton)*	*(tons/24-month)*	*(tons/24-month)*	*(tons/24-month)*	*(gr/dscf)*	*(dscfm)*	*ID#*	*Model #*	*%*	*(lb/hr)*	*(tons/24-month)*	*(tons/24-month)*	*(tons/24-month)*	*(ton/yr)*	*(ton/yr)*	*(ton/yr)*
35EX	A Flake Aspiration 35EX1	3-02-008-88	16,656	120.0	0.15	0.08	0.08	149.90	74.95	74.95	0.002	18,000.00	Baghouse	Baghouse	99.0%	0.31	2.57	2.57	1.28	1.28	1.28	0.64
	Flaking Roll #8	3-02-008-18																				
	Flaking Roll #9	3-02-008-18																				
	Flaking Roll #10	3-02-008-18																				
	Flaking Roll #11	3-02-008-18																				
	Flaking Roll #12	3-02-008-18																				
	Flaking Roll #13	3-02-008-19																				
	A Flake N/S Drag	3-02-008-18																				
	A Flake E/W Drag	3-02-008-18																				
	North Run Around Drag 3EX2	3-02-008-18																				
	B Flake Aspiration 17EX2	3-02-008-18																				

PM2.5 is 50% PM10 conservatively based on stack test data

Flaking Rolls 'A' After Change (PTE)

					Emission Factors			Unrestricted Emissions			Controlled Emissions								
Stack ID	**Process / Units**	**SCC**	**Hours**	**Max Throughput**	**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}**	**$PM_{2.5}$**
			(hrs/yr)	*(tons/hr)*	*(lb/ton)*	*(lb/ton)*	*(lb/ton)*	*(tons/yr)*	*(tons/yr)*	*(tons/yr)*	*(gr/dscf)*	*(dscfm)*	*ID#*	*Model #*	*%*	*(lb/hr)*	*(tons/yr)*	*(tons/yr)*	*(tons/yr)*
35EX	A Flake Aspiration 35EX1	3-02-008-88	8,760	120.0	0.15	0.08	0.08	78.84	39.42	39.42	0.002	18,000.00	Baghouse	Baghouse	99.0%	0.31	1.35	1.35	0.68
	Flaking Roll #8	3-02-008-18	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 #14	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																
	B Flake Aspiration 17EX2	3-02-008-18	8,760																

Unrestricted $PM/PM_{10}/PM_{2.5}$ (tons/yr) = Throughput (tons/hr) x EF (lb/ton) x 8760 hr/yr x 1 ton/2000lb
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
Max throughput is based on the greatest throughput of the line.

Baghouse Emissions Comparison Actual to Future Potential

	PM	PM10	PM2.5
	(ton/yr)	(ton/yr)	(ton/yr)
Actual	1.28	1.28	0.64
Future Potential	78.84	39.42	39.42
Emission Change	77.56	38.14	38.78

Appendix A: Emissions Calculations
Salt Tank ATPA

Company Name: **Bunge North America (East), LLC**
Source Address: **1200 N. 2nd Street, Decatur, Indiana 46733**
Renewal Number: **001-47174-00005**
SSM Number: **001-47589-00005**
Reviewer: **Maddison Hite**

Salt Conveying Modification			
Emission Unit	Existing (ton/hr)	Modification (ton/hr)	Explanation
Salt Conveying (4SP1)	21	25	New larger salt tanks
Maximum Capacity	**21**	**25**	

Processing capacity (extraction)	(ton/yr)	1,368,750	
Hours of Operation	(hours/yr)	8,760	plant/extraction
Days of Operation	(days)	365	
Max salt Use	tons/yr	2,497.6	

Past Actual Jul 2017-Jun 2019

Tons Salt Transferred	(tons/24-month)	4,177

Baseline Actual Emissions

				Unrestricted Emissions			Controlled Emissions								
Stack ID	**Process / Units**	**SCC**	**Actual Salt Use (July 17 to June 2019)**	**PM**	**PM_{10}**	**$PM_{2.5}$**	**PM Outlet Grain Loading**	**Flow Rate**	**Control Device**	**Control Device**	**Control Efficiency**	**PM**		**PM_{10}**	**$PM_{2.5}$**
			(tons/24-month)	*(tons/yr)*	*(tons/yr)*	*(tons/yr)*	*(gr/dscf)*	*(dscfm)*	*description*	*Model #*	*%*	*(lb/hr)*	*(tons/yr)*	*(tons/yr)*	*(tons/yr)*
4SP	Salt Conveying 4SP1	3-02-005-30	4,177.0	13.14	13.14	13.14	0.005	700	Baghouse	54AVS16	99.0%	0.03	0.13	0.13	0.13

New Potential to Emit

					Unrestricted Emissions			Controlled Emissions							
Stack ID	Process / Units	**SCC**	**Operating Hours**	**Max Throughput**	PM	PM_{10}	$PM_{2.5}$	PM Outlet Grain Loading	Flow Rate	Control Device	Control Device	Control Efficiency	PM		PM_{10}	$PM_{2.5}$
			(hrs/yr)	*(tons/hr)*	*(tons/yr)*	*(tons/yr)*	*(tons/yr)*	*(gr/dscf)*	*(dscfm)*		*Model #*	*%*	*(lb/hr)*	*(tons/yr)*	*(tons/yr)*	*(tons/yr)*
4SP	Salt Conveying 4SP1	3-02-005-30	8,760	25.0	13.14	13.14	13.14	0.005	700	Baghouse	54AVS16	99.0%	0.030	0.13	0.13	0.13

Methodology
Unrestricted PM/PM_{10}/$PM_{2.5}$ (tons/yr) = Controlled Emission Rate (tons/yr) /(1 - 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

Appendix A: Emissions Calculations
Grain Elevator Emissions

Company Name: Bunge North America (East), LLC
Source Address: 1200 N. 2nd Street, Decatur, Indiana 46733
Renewal Number: 001-47174-00005
SSM Number: 001-47589-00005
Reviewer: Maddison Hite

				Emission Factors			Unrestricted Emissions			Controlled Emissions									Limited Emissions		
Stack ID	**Process / Units**	**SCC**	**Max Throughput**	**PM**	**PM10**	**PM2.5**	**PM**	**PM10**	**PM2.5**	**PM Outlet Grain Loading**	**Flow Rate**	**Control Device**	**Control Device**	**Control Efficiency**	**PM**	**PM10**	**PM2.5**	**PM**	**PM10**	**PM2.5**
			tons/hr	*lb/ton*	*lb/ton*	*lb/ton*	*tons/yr*	*tons/yr*	*tons/yr*	*gr/dscf*	*dscfm*	*description*	*model #*	*%*	*tons/yr*	*tons/yr*	*tons/yr*	*tons/yr*	*tons/yr*	*tons/yr*
Equipment with controls that creates an artificial air flow																				
1EL	Truck Dump No. 2 1EL1	--	600.0	N/A	N/A	N/A	150.92	150.92	75.46	0.003	13,400	fabric filter	124RF10	99.0%	1.51	1.51	0.75	150.92	150.92	75.46
2EL4	Dryer/Screener (Megatex)	--	300.0	0.075	0.019	0.0032	98.55	24.97	4.20	0.002	12,800	Baghouse	2EL4	99.99%	0.96	0.96	0.96	24.97	14.89	9.99
	#1 Scalperator	--																		
	#2 Scalperator	--																		
2EL	East Work House Units 2EL1:	--	270.0	0.061	0.034	0.0058	72.14	40.21	6.86	0.002	9,882	Baghouse	72RJ96	99.99%	0.74	0.74	0.74	72.14	40.21	6.86
	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	--	5.6	N/A	N/A	N/A	45.05	45.05	22.53	0.003	4,000	fabric filter	2EL2	99.0%	0.45	0.45	0.23	0.74	0.74	22.53
5EL	5EL1	--	900.0	N/A	N/A	N/A	45.48	45.48	22.74	0.003	4,038	fabric filter	24RJ72	99.0%	0.45	0.45	0.23	45.48	45.48	22.74
	North Tripper Buggy	--																		
	North Galley Belt Loader	--																		
	East West Belt	--																		
	Bin 102	--																		
6EL	6EL1	--	900.0	N/A	N/A	N/A	43.56	43.56	21.78	0.003	3,868	fabric filter	24RJ72	99.0%	0.44	0.44	0.22	43.56	43.56	21.78
	South Tripper Buggy	--																		
	South Galley Belt Loader	--																		
	North South Belt	--																		
9EL	Truck Dump No. 3 & Leg 9EL1	--	900.0	N/A	N/A	N/A	432.12	432.12	432.12	0.005	23,020	fabric filter	72RJ96	99.0%	4.32	4.32	4.32	432.12	432.12	432.12
10EL	Rail Car Loadout Shed 10EL1	--	720.0	N/A	N/A	N/A	375.94	375.94	187.97	0.005	20,027	fabric filter	72RJ96	99.0%	3.76	3.76	1.88	375.94	375.94	187.97
	Rail Loadout	--																		
	Rail Receiving	--																		
	North Leg	--																		
	South Leg	--																		
12EL	Truck Dump No. 5 & Leg 12EL1	--	600.0	N/A	N/A	N/A	154.11	154.11	77.06	0.005	8,210	fabric filter	72RJ96	99.0%	1.54	1.54	0.77	154.11	154.11	77.06
13EL	Jumbo Silo Tunnel Belts 13EL1	--	360.0	N/A	N/A	N/A	174.76	174.76	87.38	0.005	9,310	fabric filter	72RJ96	99.0%	1.75	1.75	0.87	174.76	174.76	87.38
	Jumbo Silo East Tunnel Belt	--																		
	Jumbo Silo West Tunnel Belt	--																		
	Jumbo Silo Crossover Tunnel Belt	--																		
14EL	Jumbo Silo Galley 14EL1	--	600.0	N/A	N/A	N/A	268.51	268.51	134.25	0.005	14,304	fabric filter	72RJ96	99.0%	2.69	2.69	1.34	268.51	268.51	134.25
	Jumbo Silo East Galley Belt	--																		
	Jumbo Silo West Galley Belt	--																		
	Jumbo Silo Crossover Galley Belt	--																		
15EL	Truck Dump No. 6 15EL1	--	360.0	N/A	N/A	N/A	214.37	214.37	107.18	0.005	11,420	fabric filter	72RJ96	99.0%	2.14	2.14	1.07	214.37	214.37	107.18
20EL	Truck Dump No. 7 20EL1	--	450.0	N/A	N/A	N/A	126.14	126.14	126.14	0.005	7,000	fabric filters (2 in parallel)	24RJ72	99.0%	1.26	1.26	1.26	126.14	126.14	126.14
	Weigh Scale Truck Unloading Pit	--																		
	#1 Bucket Elevator Leg	--																		
	#2 Bucket Elevator Leg	--																		
22EX2	Screenings Pneumatic Convey - 2EL3	--	5.6	N/A	N/A	N/A	11.08	11.08	5.54	0.005	590	fabric filter	22EX2	99.0%	0.11	0.11	0.06	0.13	0.13	5.54
Equipment with controls that do not create an artificial air flow																				
19EL	No.2 Dryer 19EL1	3-02-005-27	60.0	0.22	0.055	0.0094	57.82	14.45	2.47	N/A	N/A	Screen-Kleen	NA	NA	--	--	--	5.96	1.24	2.47
17EL	No.4 Dryer 17EL1 - A	3-02-005-28	75.0	0.22	0.055	0.0094	72.27	18.07	3.09	N/A	N/A	Screen-Kleen	NA	90.0%	7.23	1.81	0.31	72.27	18.07	3.09
	No.5 Dryer 17EL1 - B	3-02-005-29	75.0	0.22	0.055	0.0094	72.27	18.07	3.09	N/A	N/A	Screen-Kleen	NA	90.0%	7.23	1.81	0.31	72.27	18.07	3.09
3EL	Silo bin vents 3EL1	3-02-005-40	900.0	0.025	0.0063	0.0011	98.55	24.83	4.34	N/A	N/A	oil dust suppressant	NA	NA	--	--	--	98.55	24.83	4.34
4EL	Silo direct loadout 4EL1	3-02-005-40	270.0	0.025	0.0063	0.0011	29.57	7.45	1.30	N/A	N/A	oil dust suppressant	NA	NA	--	--	--	29.57	7.45	1.30
7EL1	south west receiving conveyor	3-02-005-30	360.0	0.061	0.034	0.0058	96.18	53.61	9.15	N/A	N/A	oil dust suppressant	NA	NA	--	--	--	96.18	53.61	9.15
8EL1	north west receiving conveyor	3-02-005-30	360.0	0.061	0.034	0.0058	96.18	53.61	9.15	N/A	N/A	oil dust suppressant	NA	NA	--	--	--	96.18	53.61	9.15
							2,735.57	**2,297.31**	**1,343.79**						**36.58**	**25.74**	**15.32**	**2,554.88**	**2,218.77**	**1,349.57**

Methodology:
Grain Elevator (EL) - AP-42 Emission Factors: Table 9.9.1-1, unless otherwise specified
For units that do not employ a control device: Unrestricted PM/PM_{10}/$PM_{2.5}$ (tons/yr) = Throughput (tons/hr) x EF (lb/ton) x 8760 hr/yr x 1 ton/2000lb
Controlled PM/PM_{10}/$PM_{2.5}$ (tons/yr) = Unrestricted PM/PM10 /PM2.5 (tons/yr)
For units that employ a control device: Unrestricted PM/PM_{10}/$PM_{2.5}$ (tons/yr) = Controlled Emission Rate (tons/yr) / Control Efficiency (%)
Controlled PM/PM10 /PM2.5 (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: Emissions Calculations
VacBoss Portable Material Transfer System, Identified as 21EL1, with Maximum Capacity of 180 tons/hr

Company Name: **Bunge North America (East), LLC**
Source Address: **1200 N. 2nd Street, Decatur, Indiana 46733**
Renewal Number: **001-47174-00005**
SSM Number: **001-47589-00005**
Reviewer: **Maddison Hite**

			Emission Factor			Unlimited PTE				Limited PTE		
	Maximum Capacity (ton/hr)	Maximum Operating Hours (hr/yr)	PM (lb/ton)	PM10 (lb/ton)	PM2.5 (lb/ton)	PM (ton/year)	PM10 (ton/year)	PM2.5 (ton/year)	Limited Operating Hours (hr/yr)	PM (ton/year)	PM10 (ton/year)	PM2.5 (ton/year)
Receiving Grain by Railcar *	180	8760	0.032	0.0078	0.0013	25.23	6.15	1.02	1500	4.32	1.05	0.18
Loading Grain to Truck **	180	8760	0.086	0.029	0.0049	67.80	22.86	3.86	1500	11.61	3.92	0.66
Worst Case Grain Handling Scenarios						**67.80**	**22.86**	**3.86**		**11.61**	**3.92**	**0.66**

Notes:
* Emission Factors for PM, PM10, and PM2.5 are from AP-42, Table 9.9.1-1 "Particulate Emission Factors for Grain Elevators"; "Grain Receiving Railcar (SCC 3-02-005-53)", in Section 9.9, Grain Processing.
** Emission Factors for PM, PM10, and PM2.5 are from AP-42, Table 9.9.1-1 "Particulate Emission Factors for Grain Elevators"; "Grain Shipping by Truck (SCC3-02-005-60)", in Section 9.9, Grain Processing.
The worst case grain handling scenario is the the worst case for Receiving Grain by Rail Car or Loading Grain to Truck.

Methodology:
Unlimited PTE (ton/yr) = Maximum Capacity (ton/hr) * Maximum Operating Hours (hr/yr) * Emission Factor (lb/ton) / 2000 (lbs/ton)
Limited PTE (ton/yr) = Maximum Capacity (ton/hr) * Limited Operating Hours (hr/yr) * Emission Factor (lb/ton) / 2000 (lbs/ton)

Appendix A: Emissions Calculations
Hexane Extraction

Company Name: Bunge North America (East), LLC
Source Address: 1200 N. 2nd Street, Decatur, Indiana 46733
Renewal Number: 001-47174-00005
SSM Number: 001-47589-00005
Reviewer: Maddison Hite

				Unrestricted Emissions			Controlled Emissions								Limited Emissions			VOC/HAP Emissions				
Stack ID	**Process / Units**	**SCC**	**Max Throughput**	**PM**	**PM10**	**PM2.5**	**PM Outlet Grain Loading**	**Flow Rate**	**Control Device**	**Control Device**	**Control Efficiency**	**PM**	**PM10**	**PM2.5**	**PM**	**PM10**	**PM2.5**	**VOC / HAP EF**	**Potential to Emit VOC / HAP**	**VOC / HAP Control**	**VOC / HAP Control Efficiency**	**Controlled VOC / HAP**
			tons/hr	*tons/yr*	*tons/yr*	*tons/yr*	*gr/dscf*	*dscfm*	*description*	*model #*	*%*	*tons/yr*	*tons/yr*	*tons/yr*	*tons/yr*	*tons/yr*	*tons/yr*		*(tons/yr)*	*ID #*	*%*	*(tons/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	130.7 ppm	120.31	vent system to mineral oil absorber	99%	4.35
			0.058	*Throughput = VOC in*			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	61.96% n-hexane	315			
24EX	A Unit 24EX1 A pre-DT	NA	109.40	1,671.83	1,671.83	630.28	0.0095	37,500	mineral oil absorber	mineral oil absorber	80%	13.37	13.37	5.04	29.74	29.74	630.28	NA	NA			
	A Unit 24EX1 A DT	NA							mineral oil absorber	mineral oil absorber												
	A Unit 24EX1 A Meal Dryer	3-02-007-89							integral cyclone	integral cyclone												
	B Unit 24EX2 B pre-DT	NA	109.40	1,671.83	1,671.83	630.28	0.0095	37,500	mineral oil absorber	mineral oil absorber	80%	13.37	13.37	5.04	29.74	29.74	630.28	NA	NA			
	B Unit 24EX2 B DT	NA							mineral oil absorber	mineral oil absorber												
	B Unit 24EX2 B Meal Dryer	3-02-007-89							integral cyclone	integral cyclone												
	EAST Hexane Storage Tank 24EX4A	NA	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	--	0.78			
	WEST Hexane Storage Tank 24EX4B	NA	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	--	0.83			
	Wastewater System 24EX5	NA	7.36	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.19 ppm	0.01			
	Refined Hot Oil Well 24EX6	NA	24.26	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	74.8 ppm	15.89			
	Hexane Losses from transfer to meal	NA	97.34	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	138 ppm	117.67			
	Hexane Losses from Oil Received	NA	7.74	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	130.7 ppm	8.86			
	Sampling/ Hexane Unloading Port 19EX	NA	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	--	120.00			
	Oil Tanks (non-deodorized oil) 24EX8	NA	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	--	1.61			
			Total	**3343.66**	**3343.66**	**1260.56**						**26.75**	**26.75**	**10.08**	**59.48**	**59.48**	**1260.56**		**435.07**			**4.351**

All PM emissions equal PM_{10} 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 applicablity, the PTE should be calculated from the After Controls values.

Methodology:

For units that do not employ a control device:
Unrestricted $PM/PM_{10}/PM_{2.5}$ (tons/yr) = Throughput (tons/hr) x EF (lb/ton) x 8760 hr/yr x 1 ton/2000lb
Controlled $PM/PM_{10}/PM_{2.5}$ (tons/yr) = Unrestricted PM/PM10 /PM2.5 (tons/yr)

For units that employ a control device:
Unrestricted $PM/PM_{10}/PM_{2.5}$ (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 emisions $PM_{2.5}$ = 37.7% of PM_{10} 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.
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 - Conctrol Efficiency)

Appendix A: Emissions Calculations
Boiler Emissions

Company Name: **Bunge North America (East), LLC**
Source Address: **1200 N. 2nd Street, Decatur, Indiana 46733**
Renewal Number: **001-47174-00005**
SSM Number: **001-47589-00005**
Reviewer: **Maddison Hite**

Unit	ID#	Date Installed	Heat Input Capacity MMBtu/hr	Potential Throughput MMCF/yr	SCC
Murray Boiler	3SP1	1968	110.2	965.4	10200601
Boiler	10SP1	2015	178.4	1562.9	
				2528.2	

Permit Ref.: A.2(ww)

Heating Value: *1,020* Btu/CF

	Pollutant						
	PM	**PM10**	**PM2.5**	**SO2**	**NOx**	**VOC**	**CO**
Natural Gas Emission Factor in lb/MMCF	*1.9*	*7.6*	*7.6*	*0.6*	*100.0*	*5.5*	*84.0*
Murray Boiler 3SP1 PTE (ton/yr) - N.G.	0.92	3.67	3.67	0.29	48.27	2.65	40.54
Boiler 10SP	1.48	5.94	5.94	0.47	78.14	4.30	65.64
	0.92	**3.67**	**3.67**	**0.29**	**48.27**	**2.65**	**40.54**

Notes
NATURAL GAS - emission factors: AP-42, Chapter 1.4
PM emission factor is filterable PM only. PM_{10} emission factor is filterable and condensable PM combined. $PM_{2.5}$ emission factor is filterable and condensable PM combined.
Emission Factors for NOx: Uncontrolled = 100, Low NOx Burner = 50, Low NOx 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
	Benzene	**Dichlorobenzene**	**Formaldehyde**	**Hexane**	**Toluene**	**Subtotal**
Natural Gas Emission Factor in lb/MMCF	*2.1E-03*	*1.2E-03*	*7.5E-02*	*1.80*	*3.4E-03*	***Organic***
Murray Boiler 3SP1 PTE (ton/yr) - N.G.	1.0E-03	5.8E-04	3.6E-02	8.7E-01	1.6E-03	9.1E-01
Boiler 10SP	1.6E-03	9.4E-04	5.9E-02	1.4E+00	2.7E-03	1.5E+00
	2.7E-03	**1.5E-03**	**9.5E-02**	**2.3E+00**	**4.3E-03**	**2.38**

HAP TOTAL
0.91
1.47
2.39

	HAPs - Metals					HAP
	Cadmium	**Chromium**	**Lead**	**Manganese**	**Nickel**	**Subtotal**
Natural Gas Emission Factor in lb/MMCF	*1.1E-03*	*1.4E-03*	*5.0E-04*	*3.8E-04*	*2.1E-03*	***Metals***
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
Boiler 10SP	8.6E-04	1.1E-03	3.9E-04	3.0E-04	1.6E-03	4.3E-03
	1.4E-03	**1.8E-03**	**6.3E-04**	**4.8E-04**	**2.7E-03**	**0.01**

NATURAL GAS - HAP emission factors: AP-42, Chapter 1.4

Appendix A: Emissions Calculations
PTE Summary

Company Name: Bunge North America (East), LLC
Source Address: 1200 N. 2nd Street, Decatur, Indiana 46733
Renewal Number: 001-47174-00005
SSM Number: 001-47589-00005
Reviewer: Maddison Hite

1) Equipment with controls that creates an artificial air flow

				Emission Factors			Unrestricted Emissions			Controlled Emissions									Limited Emissions		
Stack ID	**Process / Units**	**Hours**	**Max Throughput**	**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**	**PM10**	**PM2.5**
		(hrs/yr)	*(tons/hr)*	*(lb/ton)*	*(lb/ton)*	*(lb/ton)*	*(tons/yr)*	*(tons/yr)*	*(tons/yr)*	*(gr/dscf)*	*(dscfm)*	*ID#*	*Model #*	*%*	*(lb/hr)*	*(tons/yr)*	*(tons/yr)*	*(tons/yr)*	*(ton/yr)*	*(ton/yr)*	*(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	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
	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	0.40	0.40	0.40	22.53	22.53	22.53	0.002	3,000.00	fabric filter	Fabric Filter	99.0%	0.05	0.23	0.23	0.23	22.53	22.53	22.53
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)							**179.81**	**179.81**	**179.81**						**1.78**	**7.78**	**7.78**	**7.78**	**72.97**	**72.97**	**179.81**

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
Permit Number: 001-47174-00005
Permit Reviewer: Maddison Hite

2) Equipment with controls that does not create an artificial air flow

					Emission Factors			Unrestricted Emissions			Controlled Emissions									Limited Emissions		
Stack ID	**Process / Units**	**SCC**	**Hours**	**Max Throughput**	**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**	**PM10**	**PM2.5**
			(hrs/yr)	*(tons/hr)*	*(lb/ton)*	*(lb/ton)*	*(lb/ton)*	*(tons/yr)*	*(tons/yr)*	*(tons/yr)*	*(gr/dscf)*	*(dscfm)*	*ID#*	*Model #*	*%*	*(lb/hr)*	*(tons/yr)*	*(tons/yr)*	*(tons/yr)*	*(ton/yr)*	*(ton/yr)*	*(ton/yr)*
34EX	B Flake Aspiration 34EX1	3-02-008-18	8,760	95.0	0.15	0.08	0.08	62.42	31.21	31.21	0.002	18,000.00	baghouse	Baghouse	99.0%	0.31	1.35	1.35	1.35	2.08	2.08	31.21
	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																			
	B Flake E/W Drag	3-02-008-18	8,760																			
35EX	A Flake Aspiration 35EX1	3-02-008-88	8,760	120.0	0.15	0.08	0.08	78.84	39.42	39.42	0.002	18,000.00	baghouse	Baghouse	99.0%	0.31	1.35	1.35	1.35	78.84	39.42	39.42
	Flaking Roll #8	3-02-008-18	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 #14	3-02-008-18	8,760																			
	Flaking #14 1EX2	3-02-008-18	8,760																			
	Flaking Roll Discharge #14	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																			
	B Flake Aspiration 17EX2	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	41.76	23.28	3.97	0.006	33,300.00	fabric filter	Cyclone 144RJ120	99.0%	1.80	7.88	7.88	7.88	6.31	6.31	3.97
	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																			
	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	246.45	246.45	246.45	0.003	39,100.00	fabric filter	Cyclone 144RJ120	99.0%	1.11	4.84	4.84	4.84	6.59	6.59	246.45
	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	248.99	248.99	248.99	0.003	20,000.00	fabric filter	Baghouse 96AVS64	99.0%	0.51	2.25	2.25	2.25	2.25	2.25	248.99
	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																			
33EX	Hot Dehulling 5EX2	3-02-008-16	8,760	156.3	0.15	0.08	0.08	102.69	51.34	51.34	0.002	5,075.00	baghouse	Baghouse	NA	0.09	0.38	0.38	0.38	0.75	0.75	51.34
--	Flake Drag Aspiration Fan 15EX	--	8,760	NA	NA	NA	NA	5.00	5.00	5.00	NA	NA	NA	Air Break Fan	NA	NA	5.00	5.00	5.00	5.00	5.00	5.00
23EX	Meal Storage 23EX1	3-02-005-40	8,760	125.0	2.50E-02	6.30E-03	1.10E-03	13.69	3.45	0.60	NA	NA	fabric filter	bin vent filter	NA	3.13	13.69	3.45E+00	6.02E-01	0.09	0.09	6.02E-01
29EX	Pelletizer Loadout Bin 29EX1	--	8,760	10.0	2.50E-02	6.30E-03	1.10E-03	1.10	0.28	0.05	0.002	650.00	bin vent filter	bin vent filter	99.0%	0.01	0.05	0.05	0.05	1.10	2.76E-01	4.82E-02
		Subtotal for Milling & Extraction (EX)						**800.93**	**649.42**	**627.04**						**7.26**	**36.79**	**26.56**	**23.71**	**103.01**	**62.77**	**627.04**

Appendix A: Emission Calculations
Milling and Extraction Emissions (3 of 3)

Company Name: Bunge North America (East), LLC
Source Address: 1200 N. 2nd Street, Decatur, Indiana 46733
Renewal Number: 001-47174-00005
SSM Number: 001-47589-00005
Reviewer: Maddison Hite

3) Equipment without controls

					Emission Factors			Unrestricted Emissions		
Stack ID	**Process / Units**	**SCC**	**Hours**	**Max Throughput**	**PM EF**	**PM_{10} EF**	**$PM_{2.5}$ EF**	**PM**	**PM_{10}**	**$PM_{2.5}$**
			(hrs/yr)	*(tons/hr)*	*(lb/ton)*	*(lb/ton)*	*(lb/ton)*	*(tons/yr)*	*(tons/yr)*	*(tons/yr)*
	Belt to Storage Bowls 16EX1	3-02-019-16	8,760	93.0	0.061	0.034	0.006	24.85	13.85	2.36
	Large Storage Bowl 16EX2	3-02-019-16	8,760	93.0	0.061	0.034	0.006	24.85	13.85	2.36
	Small Storage Bowl 16EX3	3-02-019-16	8,760	93.0	0.061	0.034	0.006	24.85	13.85	2.36
18EX	Whole Bean Bins 18EX1	3-02-005-40	8,760	156.3	0.025	0.0063	0.0011	17.11	4.31	0.75
		Subtotal for Milling & Extraction (EX)						**91.66**	**45.86**	**7.84**

				Emission Factors				Unrestricted Emissions		
Process / Units	**SCC**	**Hours**	**Max Throughput**	**PM EF**	**PM_{10} EF**	**$PM_{2.5}$ EF**	**Emission Reduction from Mineral Oil Application**	**PM**	**PM_{10}**	**$PM_{2.5}$**
		(hrs/yr)	*(tons/hr)*	*(lb/ton)*	*(lb/ton)*	*(lb/ton)*	*%*	*(tons/yr)*	*(tons/yr)*	*(tons/yr)*
Bean Bowl Mobile Truck Loadout 16EX4	3-02-005-60	8,760	250.0	0.086	0.029	0.0049	75%	**23.54**	**7.94**	**1.34**

		Unrestricted Emissions			Limited Emissions		
		PM	**PM_{10}**	**$PM_{2.5}$**	**PM**	**PM_{10}**	**$PM_{2.5}$**
Total for Milling & Extraction (EX)		**1,095.94**	**883.03**	**816.03**	**291.17**	**189.54**	**816.03**

Milling & Extraction (EX) - AP-42 Emission factors:Table 9.11.1-1 (Vegetable Oil Processing), unless otherwise specified
Bean Bowl Mobile Truck Loadout 16EX4 - AP-42 Emission factors: Table 9.9.1-1 (Grain Elevators & Processes)

Methodology:

For units that do not employ a control device:
Unrestricted $PM/PM_{10}/PM_{2.5}$ (tons/yr) = Throughput (tons/hr) x EF (lb/ton) x 8760 hr/yr x 1 ton/2000lb
Controlled $PM/PM_{10}/PM_{2.5}$ (tons/yr) = Unrestricted PM/PM10 /PM2.5 (tons/yr)

For units that employ a control device:
Unrestricted $PM/PM_{10}/PM_{2.5}$ (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 emisions $PM_{2.5}$ = 37.7% of PM_{10} controlled emissions. This was developed using the EPA PM calculator (http://www.epa.gov/ttnchie1/software/pmcalc/).

For Bean Bowl Truck Loadout 16EX4:
Unrestricted $PM/PM_{10}/PM_{2.5}$ (tons/yr) = Throughput (tons/hr) x EF (lb/ton) x (1 - Mineral Oil Emission Reduction) 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: Emissions Calculations
PTE of the New Flaking Rolls

Company Name: Bunge North America (East), LLC
Source Address: 1200 N. 2nd Street, Decatur, Indiana 46733
Renewal Number: 001-47174-00005
SSM Number: 001-47589-00005
Reviewer: Maddison Hite

New Flaking Rolls

					Emission Factors			Unrestricted Emissions		
Stack ID	Process / Units	SCC	Hours	Max Throughput	PM EF	PM_{10} EF	$PM_{2.5}$ EF	PM	PM_{10}	$PM_{2.5}$
			(hrs/yr)	*(tons/hr)*	*(lb/ton)*	*(lb/ton)*	*(lb/ton)*	*(tons/yr)*	*(tons/yr)*	*(tons/yr)*
35EX	Flaking Roll #8	3-02-008-18	8,760	16.67	0.15	0.08	0.08	10.95	5.48	5.48
	Flaking Roll #9	3-02-008-18	8,760	16.67	0.15	0.08	0.08	10.95	5.48	5.48
	Flaking Roll #10	3-02-008-18	8,760	16.67	0.15	0.08	0.08	10.95	5.48	5.48
	Flaking Roll #11	3-02-008-18	8,760	16.67	0.15	0.08	0.08	10.95	5.48	5.48
								43.81	**21.90**	**21.90**

Methodology
Unrestricted $PM/PM_{10}/PM_{2.5}$ (tons/yr) = Throughput (tons/hr) x EF (lb/ton) x 8760 hr/yr x 1 ton/2000lb

Note: While this unit is used within a line, and the PTE of the entire source is not going to increase, the PTE of the new rolls must be determined on their own to determine permit level

Appendix A: Emissions Calculations
Miscellaneous Source Emissions

Company Name: Bunge North America (East), LLC
Source Address: 1200 N. 2nd Street, Decatur, Indiana 46733
Renewal Number: 001-47174-00005
SSM Number: 001-47589-00005
Reviewer: Maddison Hite

					Unrestricted Emissions						Controlled Emissions								
Stack ID	Process / Units	SCC	Operating Hours	Max Throughput	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}	$PM_{2.5}$
			(hrs/yr)	*(tons/hr)*	*(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)*
4SP	Salt Conveying 4SP1	3-02-005-30	8,760	25.0	na	na	na	13.14	13.14	13.14	0.005	700	Baghouse	54AVS16	99.0%	0.030	0.13	0.131	0.131
204RO	Filter Aid Unit 204RO1	3-05-009-05	730	2.5	na	na	na	0.63	0.63	0.63	0.005	400	fabric filter		99.0%	0.017	0.08	0.075	0.075
102EO	Daily Use Bins 102EO1	3-02-005-40	730	2.5	na	na	na	0.94	0.94	0.94	0.005	600	fabric filter		99.0%	0.026	0.11	0.113	0.113
103EO	Filter Aid Silos 103EO1	3-02-005-40	312	16.0	na	na	na	0.33	0.33	0.33	0.005	500	fabric filter		99.0%	0.021	0.09	0.094	0.094
112EO	Batch Enzyme Bag Unloader 112EO1		52	51.0	na	na	na	0.04	0.04	0.04	0.005	400	fabric filter		99.0%	0.017	0.08	0.075	0.075
	Subtotal for MISC							15.08	15.08	15.08						0.11	0.49	0.49	0.49

E (lb/ton) = k (0.0032) x [(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
Operating Hours - Filter Aid Unit (204RO1) use is bottlenecked by the oil refining process
Daily Use Bins and Filter Aid Silos (102EO1, 103EO1) are bottlenecked by edible oil processes
Batch Enzyme Bag Unloader (112EO1) use is bottlenecked by enzyme process.

Methodology:

For units that do not employ a control device:

Unrestricted $PM/PM_{10}/PM_{2.5}$ (tons/yr) = Throughput (tons/hr) x EF (lb/ton) x 8760 hr/yr x 1 ton/2000lb
Controlled $PM/PM_{10}/PM_{2.5}$ (tons/yr) = Unrestricted PM/PM10 /PM2.5 (tons/yr)

For units that employ a control device:

Unrestricted $PM/PM_{10}/PM_{2.5}$ (tons/yr) = Controlled Emission Rate (tons/yr) /(1 - 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 emisions $PM_{2.5}$ = 37.7% of PM_{10} controlled emissions. This was developed using the EPA PM calculator (http://www.epa.gov/ttnchie1/software/pmcalc/).

Appendix A: Emissions Calculations
Reciprocating Internal Combustion Engines - Diesel Fuel
Output Rating (<=600 HP)
Maximum Input Rate (<=4.2 MMBtu/hr)

Company Name: **Bunge North America (East), LLC**
Source Address: **1200 N. 2nd Street, Decatur, Indiana 46733**
Renewal Number: **001-47174-00005**
SSM Number: **001-47589-00005**
Reviewer: **Maddison Hite**

Emissions calculated based on output rating (hp)

Output Horsepower Rating (hp)	990.0
New Fire Pump Output Horsepower Rating (hp)	305.0
Maximum Hours Operated per Year	500
New Fire Pump Potential Throughput (hp-hr/yr)	152500
Potential Throughput (hp-hr/yr)	495,000

Cummins Fire Pump #1	380
Fire Pump (2018)	305
Fire Pump (2019)	305
Total	990

	Pollutant						
	PM*	PM10*	direct PM2.5*	SO2	NOx	VOC	CO
Emission Factor in lb/hp-hr	0.0022	0.0022	0.0022	0.00205	0.0310	0.0025	0.00668
Potential Emission in tons/yr	0.54	0.54	0.54	0.51	7.67	0.62	1.65
New Fire Pump, Potential Emissions in tons/yr	0.17	0.17	0.17	0.16	2.36	0.19	0.51

*PM and PM2.5 emission factors are assumed to be equivalent to PM10 emission factors. No information was given regarding which method was used to determine the factor or the fraction of PM10 which is condensable.

Hazardous Air Pollutants (HAPs)

	Pollutant							
	Benzene	Toluene	Xylene	1,3-Butadiene	Formaldehyde	Acetaldehyde	Acrolein	Total PAH HAPs***
Emission Factor in lb/hp-hr****	6.53E-06	2.86E-06	2.00E-06	2.74E-07	8.26E-06	5.37E-06	6.48E-07	1.18E-06
Potential Emission in tons/yr	1.62E-03	7.09E-04	4.94E-04	6.77E-05	2.04E-03	1.33E-03	1.60E-04	2.91E-04
New Fire Pump, Potential Emissions in tons/yr	4.98E-04	2.18E-04	1.52E-04	2.09E-05	6.30E-04	4.09E-04	4.94E-05	8.97E-05

***PAH = Polyaromatic Hydrocarbon (PAHs are considered HAPs, since they are considered Polycyclic Organic Matter)

****Emission factors in lb/hp-hr were calculated using emission factors in lb/MMBtu and a brake specific fuel consumption of 7,000 Btu / hp-hr (AP-42 Table 3.3-1).

Potential Emission of Total HAPs (tons/yr)	**6.71E-03**
New Fire Pump, Potential Emissions of Total HAPs tons/yr	**2.07E-03**

Methodology

Emission Factors are from AP 42 (Supplement B 10/96) Tables 3.3-1 and 3.3-2.

Potential Throughput (hp-hr/yr) = [Output Horsepower Rating (hp)] * [Maximum Hours Operated per Year]

Potential Emission (tons/yr) = [Potential Throughput (hp-hr/yr)] * [Emission Factor (lb/hp-hr)] / [2,000 lb/ton]

Appendix A: Emissions Calculations
Fugitive Emissions

Company Name: Bunge North America (East), LLC
Source Address: 1200 N. 2nd Street, Decatur, Indiana 46733
Renewal Number: 001-47174-00005
SSM Number: 001-47589-00005
Reviewer: Maddison Hite

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	
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/PM_{10}/$PM_{2.5}$ (tons/hr) = Throughput (tons/hr) x EF (lb/ton) x 8760 hr/yr x 1 ton/2000lb
Fugitive PM/PM_{10}/$PM_{2.5}$ (tons/hr) = Unrestricted PM/PM10 /PM2.5 (tons/hr) x (1 - Capture Efficiency (%))

Appendix A: Emissions Calculations
Natural Gas Combustion

Company Name: Bunge North America (East), LLC
Source Address: 1200 N. 2nd Street, Decatur, Indiana 46733
Renewal Number: 001-47174-00005
SSM Number: 001-47589-00005
Reviewer: Maddison Hite

Grain Elevator Dryers		
Unit	**ID#**	**Heat Input Capacity (MMBtu/hr)**
No. 2 Dryer*	19EL1	7.0
No. 1 Dryer (Berico)*	16EL1	7.0
No. 4 Dryer*	17EL1	7.0
No. 5 Dryer*	17EL1	7.0
		28.0

Steam Generators		
Unit	**ID#**	**Heat Input Capacity (MMBtu/hr)**
#2 Geka Boiler	110EO	14.0
#3 Steam Generator	108EO	14.0
		28.0

	Heat Input Capacity MMBtu/hr	HHV mmBtu/mmscf	Potential Throughput MMCF/yr
Grain Elevator Dryers	28.00	1020	240.5
Steam Generators	28.00	1020	240.5

		Pollutant						
		PM*	PM10*	direct PM2.5*	SO2	NOx	VOC	CO
Emission Factor in lb/MMCF		1.9	7.6	7.6	0.6	100 **see below	5.5	84
Potential Emission in tons/yr	Grain Elevator Dryers	***	***	***	0.07	12.02	0.66	10.10
Potential Emission in tons/yr	Steam Generators	0.23	0.91	0.91	0.07	12.02	0.66	10.10
		0.23	**0.91**	**0.91**	**0.14**	**24.05**	**1.32**	**20.20**

*PM emission factor is filterable PM only. PM10 emission factor is filterable and condensable PM10 combined.
PM2.5 emission factor is filterable and condensable PM2.5 combined.
**Emission Factors for NOx: Uncontrolled = 100, Low NOx Burner = 50, Low NOx Burners/Flue gas recirculation = 32
*** PM/PM10/PM2.5 Emissions are calculated into the grain elevator emissions

Methodology
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
Potential Throughput (MMCF) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1 MMCF/1,020 MMBtu
Potential Emission (tons/yr) = Potential Throughput (MMCF/yr) x Emission Factor (lb/MMCF)/2,000 lb/ton

Hazardous Air Pollutants (HAPs)

		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	Grain Elevator Dryers	2.52E-04	1.44E-04	0.01	0.22	4.09E-04
Potential Emission in tons/yr	Steam Generators	2.52E-04	1.44E-04	0.01	0.22	4.09E-04
		5.05E-04	**2.89E-04**	**0.02**	**0.43**	**8.18E-04**

		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	Grain Elevator Dryers	6.0E-05	1.3E-04	1.7E-04	4.6E-05	2.5E-04
Potential Emission in tons/yr	Steam Generators	6.0E-05	1.3E-04	1.7E-04	4.6E-05	2.5E-04
		1.2E-04	**2.6E-04**	**3.4E-04**	**9.1E-05**	**5.0E-04**

Potential Emission of Combined HAPs Grain Elevators (tons/yr)	**0.23**	
Potential Emission of Highest Single HAP Grain Elevators (tons/yr)	**0.22**	**Hexane**
Potential Emission of Combined HAPs Steam Generators(tons/yr)	**0.23**	
Potential Emission of Highest Single HAP Steam Generators (tons/yr)	**0.22**	

Methodology
Methodology is the same as above.
The five highest organic and metal HAPs emission factors are provided above.
Additional HAPs emission factors are available in AP-42, Chapter 1.4.

Appendix A: Emissions Calculations
Tank Emissions

Company Name: **Bunge North America (East), LLC**
Source Address: **1200 N. 2nd Street, Decatur, Indiana 46733**
Renewal Number: **001-47174-00005**
SSM Number: **001-47589-00005**
Reviewer: **Maddison Hite**

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	0.10	0.02	0.12	6.02E-05
Steam and Power	1	300	3170	0.00	0.07	0.07	3.30E-05
Elevator	1	250	2636	0.10	0.05	0.16	7.95E-05
EO South Tank Farm	1	500	6422	0.20	0.13	0.34	1.69E-04
Fire Protection	2	550	302	0.21	0.01	0.43	2.17E-04
Fire Protection	1	500	302	0.22	0.01	0.23	1.14E-04
					Total VOC/HAP Emissions from Diesel Tanks		6.73E-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	230.10	46.15	276.26	0.14
				Total VOC/HAP Emissions from Gasoline Tank		0.14

otal VOC/HAP Emissions:	0.14	ton/yr

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	515.40	1035.10	1550.50	0.78
EAST Hexane	1	22,950	628.37	1035.10	1663.47	0.83
				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 Tank information was provided by the source

Appendix A: Emissions Calculations
Cooling Towers

Company Name: **Bunge North America (East), LLC**
Source Address: **1200 N. 2nd Street, Decatur, Indiana 46733**
Renewal Number: **001-47174-00005**
SSM Number: **001-47589-00005**
Reviewer: **Maddison Hite**

	Extraction	Edible Oil	Refined Oil
	0.005%	0.006%	0.007%
Density (lbs/gal) =	8.35	8.35	8.35
Total Dissolved Solids (ppm) =	1800	1800	1200
Circulating Water Flow (gal/min) =	2,350	2,350	1,950

	Unrestricted PTE			
	ton/yr	*ton/yr*	*ton/yr*	*TOTAL*
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 PM_{10} Emissions from Cooling Towers*.

PM_{10} emissions are estimated based on the assumption that 85% of PM is PM_{10}.

$PM_{2.5}$ emissions are estimated based on the assumption that 85% of PM is $PM_{2.5}$.

Appendix A: Emissions Calculations
Dispensing Operations

Company Name: **Bunge North America (East), LLC**
Source Address: **1200 N. 2nd Street, Decatur, Indiana 46733**
Renewal Number: **001-47174-00005**
SSM Number: **001-47589-00005**
Reviewer: **Maddison Hite**

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 VOC: ***4.39 ton/yr***

Appendix A: Emissions Calculations
Degreasing Operations

Company Name: **Bunge North America (East), LLC**
Source Address: **1200 N. 2nd Street, Decatur, Indiana 46733**
Renewal Number: **001-47174-00005**
SSM Number: **001-47589-00005**
Reviewer: **Maddison Hite**

Material	Maximum Throughput gal/year	Density lbs/gal	Vapor Pressure	Weight Organic %	Potential VOC tons/yr
Crystal Clean 142+ Mineral Spirits	145	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)

Appendix A: Emissions Calculations
Paved Road Emissions

Company Name: **Bunge North America (East), LLC**
Source Address: **1200 N. 2nd Street, Decatur, Indiana 46733**
Renewal Number: **001-47174-00005**
SSM Number: **001-47589-00005**
Reviewer: **Maddison Hite**

Paved Roads at Industrial Site
The following calculations determine the amount of emissions created by paved roads, based on 8,760 hours of use and AP-42, Ch 13.2.1 (1/2011).

Vehicle Informtation (provided by source)

Type	Maximum number of vehicles per day	Number of one-way trips per day per vehicle	Maximum trips per day (trip/day)	Maximum Weight of Loaded Vehicle (tons/trip)	Total Weight driven per day (ton/day)	Maximum one-way distance (feet/trip)	Maximum one-way distance (mi/trip)	Maximum one-way miles (miles/day)	Maximum one-way miles (miles/yr)
Elevator Truck Dumps	93.0	1.0	93.0	28.5	2650.5	2640	0.500	46.5	16972.5
Trucks to Bowls	3.0	1.0	3.0	28.5	85.5	1584	0.300	0.9	328.5
Extr Meal LO	47.0	1.0	47.0	25.5	1198.5	5280	1.000	47.0	17155.0
RO Oil Rcvd	9.0	1.0	9.0	22.5	202.5	1848	0.350	3.2	1149.8
EO Oil Shipped	-	1.0	24.0	24.0	576.0	3168	0.600	14.4	5256.0
		Totals	**176.0**		**4713.0**			**112.0**	**40861.8**

Average Vehicle Weight Per Trip = 26.8 tons/trip
Average Miles Per Trip = 0.64 miles/trip

Unmitigated Emission Factor, Ef = [k * (sL)^0.91 * (W)^1.02] (Equation 1 from AP-42 13.2.1)

	PM	PM10	PM2.5	
where k =	0.011	0.0022	0.00054	lb/VMT = particle size multiplier (AP-42 Table 13.2.1-1)
W =	26.8	26.8	26.8	tons = average vehicle weight
sL =	2.9	2.9	2.9	g/m^2 = silt loading value for paved roads at iron and steel production facilities - Table 13.2.1-3)

Taking natural mitigation due to precipitation into consideration, Mitigated Emission Factor, Eext = E * [1 - (p/4N)] (Equation 2 from AP-42 13.2.1)
Mitigated Emission Factor, Eext = Ef * [1 - (p/4N)]
where p = 125 days of rain greater than or equal to 0.01 inches (see Fig. 13.2.1-2)
N = 365 days per year

	PM	PM10	PM2.5	
Unmitigated Emission Factor, Ef =	0.829	0.166	0.0407	lb/mile
Mitigated Emission Factor, Eext =	0.758	0.152	0.0372	lb/mile

Process	Mitigated PTE of PM (Before Control) (tons/yr)	Mitigated PTE of PM10 (Before Control) (tons/yr)	Mitigated PTE of PM2.5 (Before Control) (tons/yr)
Elevator Truck Dumps	6.43	1.29	0.32
Trucks to Bowls	0.12	0.02	0.01
Extr Meal LO	6.50	1.30	0.32
RO Oil Rcvd	0.44	0.09	0.02
EO Oil Shipped	1.99	0.40	0.10
Totals	**15.49**	**3.10**	**0.76**

Methodology
Total Weight driven per day (ton/day) = [Maximum Weight of Loaded Vehicle (tons/trip)] * [Maximum trips per day (trip/day)]
Maximum one-way distance (mi/trip) = [Maximum one-way distance (feet/trip) / [5280 ft/mile]
Maximum one-way miles (miles/day) = [Maximum trips per year (trip/day)] * [Maximum one-way distance (mi/trip)]
Average Vehicle Weight Per Trip (ton/trip) = SUM[Total Weight driven per day (ton/day)] / SUM[Maximum trips per day (trip/day)]
Average Miles Per Trip (miles/trip) = SUM[Maximum one-way miles (miles/day)] / SUM[Maximum trips per year (trip/day)]
Unmitigated PTE (tons/yr) = [Maximum one-way miles (miles/yr)] * [Unmitigated Emission Factor (lb/mile)] * (ton/2000 lbs)
Mitigated PTE (Before Control) (tons/yr) = [Maximum one-way miles (miles/yr)] * [Mitigated Emission Factor (lb/mile)] * (ton/2000 lbs)
Mitigated PTE (After Control) (tons/yr) = [Mitigated PTE (Before Control) (tons/yr)] * [1 - Dust Control Efficiency]

Abbreviations
PM = Particulate Matter
PM10 = Particulate Matter (<10 um)
PM2.5 = Particle Matter (<2.5 um)
PTE = Potential to Emit

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
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Eric J. Holcomb, *Governor*
Brian C. Rockensuess, *Commissioner*

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

TO: Adam Link
Bunge North America East LLC
1200 N 2nd St
Decatur, IN 46733

DATE: July 1, 2024

FROM: Jenny Acker, Branch Chief
Permits Branch
Office of Air Quality

SUBJECT: Final Decision
TV Significant Source Modification (Minor PSD/EO)
001-47589-00005

This notice is to inform you that a final decision has been issued for the air permit application referenced above.

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. In addition, the Notice of Decision has been sent to the OAQ Permits Branch Interested Parties List and, if applicable, the Consultant/Agent and/or Responsible Official/Authorized Individual.

The final decision and supporting materials are available electronically; the original signature page is enclosed for your convenience. The final decision and supporting materials available electronically at:

IDEM's online searchable database: http://www.in.gov/apps/idem/caats/ . Choose Search Option **by Permit Number**, then enter permit 47589

and

IDEM's Virtual File Cabinet (VFC): https://www.in.gov/idem. Enter VFC in the search box, then search for permit documents using a variety of criteria, such as Program area, date range, permit #, Agency Interest Number, or Source ID.

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, or have difficulty accessing the documents online, 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.

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Eric J. Holcomb
Governor

Brian C. Rockensuess
Commissioner

July 1, 2024

TO: Adams Public Library System

From: Jenny Acker, 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: **001-47589-00005**

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 1/9/2017

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Eric J. Holcomb
Governor

Brian C. Rockensuess
Commissioner

July 1, 2024
Bunge North America East LLC
001-47589-00005

To: Interested Parties

This notice is to inform you that a final decision has been issued for the air permit application referenced above. This notice is for informational purposes only. You are not required to take any action.

You are receiving this notice because you asked to be on IDEM's notification list for this company and/or county; or because your property is nearby the company being permitted; or because you represent a local/regional government entity.

The enclosed Notice of Decision Letter provides additional information about the final permit decision.

The final decision and supporting materials are available electronically at:

IDEM's online searchable database: http://www.in.gov/apps/idem/caats/ . Choose Search Option by Permit Number, then enter permit 47589

and

IDEM's Virtual File Cabinet (VFC): https://www.in.gov/idem. Enter VFC in the search box, then search for permit documents using a variety of criteria, such as Program area, date range, permit #, Agency Interest Number, or Source ID.

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.

Please Note: *If you would like to be removed from the Air Permits mailing list, please contact Joanne Smiddie-Brush with the Air Permits Administration Section at 1-800-451-6027, ext. 3-0185 or via e-mail at JBRUSH@IDEM.IN.GOV. If you have recently moved and this Notice has been forwarded to you, please notify us of your new address and if you wish to remain on the mailing list. Mail that is returned to IDEM by the Post Office with a forwarding address in a different county will be removed from our list unless otherwise requested.*

Enclosure
Final Interested Parties Cover Letter 10/13/2023

Mail Code 61-53

IDEM Staff	JLSCOTT 7/1/2024 Bunge North America East LLC 001-47589-00005 Final		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	Type of Mail: **CERTIFICATE OF MAILING ONLY**

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		Adam Link Bunge North America East LLC 1200 N 2nd St Decatur IN 46733 (Source CAATS) via UPS									
2		Zach Lengacher Plant Manager Bunge North America East LLC 1200 N 2nd St Decatur IN 467331160 *(RO CAATS)*									
3		Adams County Commissioners 313 W Jefferson St Rm 100 Decatur IN 46733 *(Local Official)*									
4		Adams County Health Department 313 W Jefferson St, Ste #314 Decatur IN 46733-1673 *(Health Department)*									
5		Adams Public Library System 128 S 3rd St Decatur IN 46733-1691 *(Library)*									
6		Decatur City Council and Mayors Office 172 N 2nd St Decatur IN 46733-1609 *(Local Official)*									
7		Mark Wynn Adams County Building and Planning Office 313 W Jefferson St, #338 Decatur IN 46733 *(Affected Party)*									
8		Lisa Green The Journal Gazette 600 W Main St Fort Wayne IN 46802 *(Affected Party)*									
9											
10											
11											
12											
13											
14											
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