



Mitchell E. Daniels, Jr.
Governor

Thomas W. Easterly
Commissioner

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

TO: Interested Parties / Applicant
DATE: September 11, 2007
RE: Monsanto Company / 073-24875-00035
FROM: Nisha Sizemore
Chief, Permits Branch
Office of Air Quality

Notice of Decision: Approval - Effective Immediately

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

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

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

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

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

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

Enclosures
FNPER.dot 03/23/06



Mitchell E. Daniels, Jr.
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Mr. John Struges
Monsanto Company
P.O. Box 35
Remington, Indiana 47977

September 11, 2007

Re: 073-24875-00035
First Significant Revision to
FESOP 073-23632-00035

Dear John Struges:

Monsanto Company was issued a Federally Enforceable State Operating Permit (FESOP) No. 073-23632-00035 permit on February 20, 2007 for a hybrid corn seed processing plant located at 15849 South U.S. Highway 231, Remington, Indiana 47977.

The Office of Air Quality (OAQ) received an application from the source on June 4, 2007 requesting to construct and modify several new units at their existing plant. The source also requested updates to the descriptions, emission rates, capacities, and any associated permit limitations for the new and modified equipment at their existing hybrid corn seed processing plant. Additionally, the source provided updated process information for Treaters #1 through #3; however, the additional information did not result in a change to the facility descriptions or the limited potential to emit for each of the treaters (i.e., each treater is still limited to less than 25 tons per year of VOC). The maximum storage capacity of the plant will not increase as a result of these changes (currently 946,000 bushels of corn per year). These changes will not cause the source's potential to emit to be greater than the Title V major threshold levels or PSD major threshold levels.

Pursuant to the provisions of 326 IAC 2-8-11.1, the changes to the permit are required to be reviewed in accordance with the Significant Permit Revision procedures of 326 IAC 2-8-11.1(f). Pursuant to the provisions of 326 IAC 2-8-11.1, a significant permit revision (SPR) No. 073-24875-00035 to the Monsanto Company FESOP is hereby approved as described in the attached Technical Support Document (TSD) and Addendum to the TSD.

The following construction conditions are applicable to the proposed project:

1. General Construction Conditions
The data and information supplied with the application shall be considered part of this source modification approval. Prior to any proposed change in construction which may affect the potential to emit (PTE) of the proposed project, the change must be approved by the Office of Air Quality (OAQ).
2. This approval to construct does not relieve the permittee of the responsibility to comply with the provisions of the Indiana Environmental Management Law (IC 13-11 through 13-20; 13-22 through 13-25; and 13-30), the Air Pollution Control Law (IC 13-17) and the rules promulgated thereunder, as well as other applicable local, state, and federal requirements.
3. Effective Date of the Permit
Pursuant to IC 13-15-5-3, this approval becomes effective upon its issuance.

4. Pursuant to 326 IAC 2-1.1-9 (Revocation), 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.

Pursuant to 326 IAC 2-8-11.1, the Monsanto Company permit shall be revised by incorporating the associated significant permit revisions into their permit. All other conditions of the permits shall remain unchanged and in effect. Please find the enclosed copy of the revised entire permit for Monsanto Company.

This decision is subject to the Indiana Administrative Orders and Procedures Act - IC 4-21.5-3-5. If you have any questions on this matter, please contact Brian Williams, 100 North Senate Avenue, MC 61-53 IGCN 1003, Indianapolis, Indiana, 46204-2251, at 317-234-5375 or at 1-800-451-6027 (ext 45375).

Sincerely/Original Signed By:

Nisha Sizemore, Chief
Permits Branch
Office of Air Quality

bmw

Attachments: Technical Support Document (TSD), Addendum to the TSD, and revised permit

cc: File - Jasper County
U.S. EPA, Region V
Jasper County Health Department
Air Compliance Section Inspector - Wanda Stanfield
Compliance Data Section
Administrative and Development
Technical Support and Modeling
Billing, Licensing, and Training Section - Dan Stamatkin



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Federally Enforceable State Operating Permit OFFICE OF AIR QUALITY

**Monsanto Company
15849 South U.S. Highway 231
Remington, Indiana 47977**

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

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

This permit is issued in accordance with 326 IAC 2 and 40 CFR Part 70 Appendix A and contains the conditions and provisions specified in 326 IAC 2-8 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.

Indiana statutes from IC 13 and rules from 326 IAC, quoted 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 FESOP under 326 IAC 2-8.

Operation Permit No.: 073-23632-00035	
Original Signed By: Nisha Sizemore, Chief Permits Branch Office of Air Quality	Issuance Date: February 20, 2007 Expiration Date: February 20, 2012

First Significant Permit Revision No.: 073-24875-00035	Pages Affected: Entire Permit
Issued by/Original Signed By: Nisha Sizemore, Chief Permits Branch Office of Air Quality	Issuance Date: September 11, 2007 Expiration Date: February 20, 2012

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SECTION A SOURCE SUMMARY

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

A.1 General Information [326 IAC 2-8-3(b)]

The Permittee owns and operates a stationary hybrid corn seed processing plant.

Source Address:	15849 South US Highway 231, Remington, IN 47977
Mailing Address:	P.O. Box 35, Remington, IN 47977
General Source Phone Number:	(219) 261-2122
SIC Code:	0723
County Location:	Jasper
Source Location Status:	Attainment for all criteria pollutants
Source Status:	Federally Enforceable State Operating Permit Program Minor Source, under PSD and Emission Offset Rules Minor Source, Section 112 of the Clean Air Act Not 1 of 28 Source Categories

A.2 Emission Units and Pollution Control Equipment Summary [326 IAC 2-8-3(c)(3)]

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

- (a) Two (2) receiving lines, identified as Corn Receiving #1 and Corn Receiving #2, consisting of two (2) huskers, identified as Husker 1 and Husker 2, which each consist of six (6) husking beds, installed in 1976, and modified in 1995 and 2007, exhausting to general ventilation, capacity: 1,500 bushels (84,000 pounds) of ear corn per hour for each line and each husker.
- (b) Two (2) natural gas-fired bin dryers, identified as Dry 1 and Dry 2, exhausting to Stacks Dry 1 and Dry 2 installed in 1976, heat input capacity: sixty (60) million British thermal units per hour, each, and a dry rate of 20,238 bushels per batch (500 bushels (28,000 pounds) per hour, each).
- (c) One (1) bagging unit, identified as EU100, one (1) seed pack fill unit, identified as EU101, one (1) manual seed pack unit, identified as EU105, and one (1) bagging machine, identified as EU12, installed in 1994 and modified in 2005, equipped with a baghouse for particulate control, identified as Red Dust Collector, capacity: 134,400 pounds of seed corn per hour, total.
- (d) One (1) treater, identified as Treater #3, installed in 1994 and modified in 2005, equipped with a baghouse for particulate control, identified as Red Dust Collector, capacity: 500 bushels (28,000 pounds) of shelled corn per hour.
- (e) One (1) Rebagging Aspirator, identified as #13, installed in 1992 and modified in 2005, with a capacity of 114,800 pounds per hour, equipped with a baghouse for particulate control, identified as Red Dust Collector, capacity: 114,800 pounds of seed corn per hour.
- (f) One (1) seed corn debagger, identified as EU34, installed in 2002, exhausting to a

baghouse, identified as Red Dust Collector, maximum throughput: 1,000 bushels (56,000 pounds) of seed corn per hour.

- (g) Sixty-nine (69) bulk storage bins, identified as B-1 through B-17, B-21 through B-40, and B-41 through B-72, installed in 1999 and 2007, throughput: 1,000 bushels (56,000 pounds) of shelled corn per hour. Storage bins B-1 through B-4 have a capacity of 11,000 bushels (770,000 pounds) each; storage bins B-5 through B-8 have a capacity of 15,000 bushels (1,050,000 pounds) each; storage bins B-9 through B-12 have a capacity of 11,000 bushels (770,000 pounds) each; storage bins B-13 through B-17 have a capacity of 4,600 bushels (322,000 pounds) each; storage bins B-21 through B-30 have a capacity of 5,000 bushels (350,000 pounds) each; and storage bins B-31 through B-40 have a capacity of 7,500 bushels (525,000 pounds) each; storage bins B-41 through B-56 have a capacity of 7,500 bushels (420,000 pounds), each, and storage bins B-57 through B-72 have a capacity of 5,000 bushels (280,000 pounds), each.
- (h) One (1) small lot bagging operation, installed in 2005, consisting of the CBT-100 treater, identified as EU102, an aspirator, identified as EU103, and bagging unit #2, identified as EU104, exhausting to a baghouse, identified as CE14, capacity: 3,550 bushels (198,800 pounds) per hour, total.
- (i) One (1) natural gas-fired bin dryer, identified as Dry 3, approved for construction in 2007, exhausting to Stack Dry 3, with a drying rate of 500 bushels (28,000 pounds) per hour and a heat input capacity of 160 million British thermal units per hour, equipped with eighteen (18) storage bins, identified as Dry 3 Bins, used for drying with a capacity of 2,000 bushels (152,000 pounds), each.
- (j) One (1) corn sheller, identified as Sheller #1, approved for construction in 2007, exhausting to a baghouse for particulate control, identified as CE 15, capacity: 2,500 bushels (140,000 pounds) of corn per hour.
- (k) Two (2) corn handling lines, identified as Line 1 and Line 2, consisting of the following:
 - (1) Two (2) cleaners, identified as Cleaner Line 1 and Cleaner Line 2, approved for construction in 2007, exhausting to two (2) baghouses for particulate control, identified as White Dust Collector #1 and White Dust Collector #2, capacity: 500 bushels (28,000 pounds) of shelled corn per hour, each.
 - (2) Two (2) sorters, identified as Sorter Line 1 and Sorter Line 2, approved for construction in 2007, exhausting to two (2) baghouses for particulate control, identified as White Dust Collector #1 and White Dust Collector #2, capacity: 500 bushels (28,000 pounds) of shelled corn per hour, each.
 - (3) Two (2) sizers, identified as Sizer Line 1 and Sizer Line 2, approved for construction in 2007, exhausting to two (2) baghouses for particulate control, identified as White Dust Collector #1 and White Dust Collector #2, capacity: 500 bushels (28,000 pounds) of shelled corn per hour, each.
 - (4) Sixteen (16) gravity tables, identified as Gravity Tables Line 1 and Gravity Tables Line 2, approved for construction in 2007, equipped with sixteen (16) dust collectors for particulate control, identified as Gravity Table Dust Collectors #1 through #16, capacity: 1,000 bushels (56,000 pounds) of shelled corn per hour, total.
 - (5) Twenty-four (24) storage bins, identified as Storage Bins Lines 1 and Storage Bins Line 2, approved for construction in 2007, throughput capacity: 1,000 bushels (56,000 pounds) of shelled corn per hour, total.

- (l) New treating/packing machinery, consisting of the following:
 - (1) Three (3) aspirators, identified as Aspirator #1 through #3, approved for construction in 2007, exhausting to a baghouse, identified as Red Dust Collector, capacity: 1,000 bushels (56,000 pounds) of shelled corn per hour, total.
 - (2) Two (2) treaters, identified as Treater #1 and #2, approved for construction in 2007, exhausting to a baghouse, identified as Red Dust Collector, capacity: 1,000 bushels (56,000 pounds) of shelled corn per hour, total.
 - (3) Twelve (12) storage bins, identified as Treating and Packing Storage Bins 1 through 12, approved for construction in 2007, capacity: 1,000 bushels (56,000 pounds) of shelled corn per hour, total.
- (m) Two (2) new corn receiving lines identified as Corn Receiving #3 and Corn Receiving #4, consisting of two (2) new huskers, identified as Husker 3 and Husker 4, which each consist of six (6) husking beds, approved for construction in 2007, exhausting to general ventilation, capacity: 1,500 bushels (84,000 pounds) of ear corn per hour for each line and each husker.
- (n) Two (2) new natural gas-fired bin dryers identified as Dry 4 and Dry 5, approved for construction in 2007, exhausting to Stack Dry 4 and Stack Dry 5, with a drying rate of 500 bushels (28,000 pounds) per hour and a heat input capacity of 160 million British thermal units per hour, each equipped with eighteen (18) storage bins, identified as Dry 4 and Dry 5 Bins, used for drying with a capacity of 2,000 bushels (112,000 pounds), each.
- (o) One (1) new corn sheller, identified as Sheller #2, approved for construction in 2007, exhausting to a baghouse for particulate control, identified as CE15, capacity: 2,500 bushels (140,000 pounds) of corn per hour.
- (p) Seventy-two (72) new bulk storage bins, identified as B-73 through B-144, approved for construction in 2007, throughput: 2,000 bushels (112,000 pounds) of shelled corn per hour. Storage bins B-73 through B-108 have a capacity of 7,500 bushels (420,000 pounds), each, and storage bins B-109 through B-144 have a capacity of 5,000 bushels (280,000 pounds), each.

Calculations indicate that the four (4) baghouses, identified as the Red Dust Collector, CE 14, CE 15, and CE 34, do not have to be operated in order for the associated emission units to comply with applicable rules.

A.3 Insignificant Activities [326 IAC 2-7-1(21)][326 IAC 2-8-3(c)(3)(I)]

This stationary source also includes the following insignificant activities:

- (a) Natural gas-fired combustion sources with heat input equal to or less than ten million (10,000,000) Btu per hour, with no boilers.
- (b) The following VOC and HAP storage containers:
 - (1) Storage tanks with capacity less than or equal to one thousand (1,000) and annual throughputs less than twelve thousand (12,000) gallons.
 - (2) Vessels storage the following: hydraulic oils, lubricating oils, machining oils, and machining fluids.
- (c) Paved and unpaved roads and parking lots with public access.

A.4 FESOP Applicability [326 IAC 2-8-2]

This stationary source, otherwise required to have a Part 70 permit as described in 326 IAC 2-7-2(a), has applied to the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ) for a Federally Enforceable State Operating Permit (FESOP).

SECTION B GENERAL CONDITIONS

B.1 Definitions [326 IAC 2-8-1]

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 2-8-4(2)][326 IAC 2-1.1-9.5][IC 13-15-3-6(a)]

- (a) This permit, F073-24875-00035, 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, 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 2-8-6]

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 2-8-4(4)]

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 2-8-4(5)(D)]

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

B.7 Duty to Provide Information [326 IAC 2-8-4(5)(E)]

- (a) The Permittee shall furnish to IDEM, OAQ, within a reasonable time, any information that IDEM, OAQ may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. The submittal by the Permittee does require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1). 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 2-8-3(d)][326 IAC 2-8-4(3)(C)(i)][326 IAC 2-8-5(1)]

- (a) Where specifically designated by this permit or required by an applicable requirement, any application form, report, or compliance certification submitted shall contain certification by an "authorized individual" of truth, accuracy, and completeness. This certification shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.
- (b) One (1) certification shall be included, using the attached Certification Form, with each submittal requiring certification. One (1) certification may cover multiple forms in one (1) submittal.
- (c) An "authorized individual" is defined at 326 IAC 2-1.1-1(1).

B.9 Annual Compliance Certification [326 IAC 2-8-5(a)(1)]

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

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

- (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 2-8-4(3); and
 - (5) Such other facts, as specified in Sections D of this permit, as IDEM, OAQ may require to determine the compliance status of the source.

The submittal by the Permittee does require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

B.10 Compliance Order Issuance [326 IAC 2-8-5(b)]

IDEM, OAQ may issue a compliance order to this Permittee upon discovery that this permit is in nonconformance with an applicable requirement. The order may require immediate compliance or contain a schedule for expeditious compliance with the applicable requirement.

B.11 Preventive Maintenance Plan [326 IAC 1-6-3][326 IAC 2-8-4(9)][326 IAC 2-8-5(a)(1)]

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

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

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

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

The PMP extension notification does not require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (b) A copy of the PMPs shall be submitted to IDEM, OAQ upon request and within a reasonable time, and shall be subject to review and approval by IDEM, OAQ. IDEM, OAQ may require the Permittee to revise its PMPs whenever lack of proper maintenance causes or is the primary contributor to an exceedance of any limitation on emissions or potential to emit. The PMPs do not require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (c) To the extent the Permittee is required by 40 CFR Part 60/63 to have an Operation Maintenance, and Monitoring (OMM) Plan for a unit, such Plan is deemed to satisfy the PMP requirements of 326 IAC 1-6-3 for that unit.

B.12 Emergency Provisions [326 IAC 2-8-12]

- (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 except as provided in 326 IAC 2-8-12.
- (b) An emergency, as defined in 326 IAC 2-7-1(12), constitutes an affirmative defense to an action brought for noncompliance with a health-based or technology-based emission limitation if the affirmative defense of an emergency is demonstrated through properly signed, contemporaneous operating logs or other relevant evidence that describe the following:

- (1) An emergency occurred and the Permittee can, to the extent possible, identify the causes of the emergency;
- (2) The permitted facility was at the time being properly operated;
- (3) During the period of an emergency, the Permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards or other requirements in this permit;
- (4) For each emergency lasting one (1) hour or more, the Permittee notified IDEM, OAQ, within four (4) daytime business hours after the beginning of the emergency, or after the emergency was discovered or reasonably should have been discovered;

Telephone Number: 1-800-451-6027 (ask for Office of Air Quality, Compliance Section), or
Telephone Number: 317-233-0178 (ask for Compliance Section)
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 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 2-8-4(3)(C)(ii) and must contain the following:

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

The notification which shall be submitted by the Permittee does not require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (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 2-8-3(c)(6) 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 2-8 and any other applicable rules.
- (g) Operations may continue during an emergency only if the following conditions are met:
 - (1) 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.
 - (2) If an emergency situation causes a deviation from a health-based limit, the Permittee may not continue to operate the affected emissions facilities unless:
 - (A) The Permittee immediately takes all reasonable steps to correct the emergency situation and to minimize emissions; and
 - (B) Continued operation of the facilities is necessary to prevent imminent injury to persons, severe damage to equipment, substantial loss of capital investment, or loss of product or raw material of substantial economic value.

Any operations shall continue no longer than the minimum time required to prevent the situations identified in (g)(2)(B) of this condition.

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

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

- (a) All terms and conditions of permits established prior to F073-24875-00035 and issued pursuant to permitting programs approved into the state implementation plan have been either:
 - (1) incorporated as originally stated,
 - (2) revised, or
 - (3) deleted.
- (b) All previous registrations and permits are superseded by this permit.

B.14 Termination of Right to Operate [326 IAC 2-8-9][326 IAC 2-8-3(h)]

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 2-8-3(h) and 326 IAC 2-8-9.

B.15 Deviations from Permit Requirements and Conditions [326 IAC 2-8-4(3)(C)(ii)]

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

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

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

The Quarterly Deviation and Compliance Monitoring Report does require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

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

B.16 Permit Modification, Reopening, Revocation and Reissuance, or Termination

[326 IAC 2-8-4(5)(C)][326 IAC 2-8-7(a)][326 IAC 2-8-8]

- (a) This permit may be modified, reopened, revoked and reissued, or terminated for cause. The filing of a request by the Permittee for a Federally Enforceable State 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 2-8-4(5)(C)] The notification by the Permittee does require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (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 2-8-8(a)]
- (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 2-8-8(b)]
- (d) The reopening and revision of this permit, under 326 IAC 2-8-8(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 2-8-8(c)]

B.17 Permit Renewal [326 IAC 2-8-3(h)]

- (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 2-8-3. Such information shall be included in the application for each emission unit at this source, except those emission units included on the trivial or insignificant activities list contained in 326 IAC 2-7-1(21) and 326 IAC 2-7-1(40). The renewal application does require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

Request for renewal shall be submitted to:

Indiana Department of Environmental Management
Permits Branch, 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 2-8 until IDEM, OAQ takes final action on the renewal application, except that this protection shall cease to apply if, subsequent to the completeness determination, the Permittee fails to submit by the deadline specified in writing by IDEM, OAQ any additional information identified as being needed to process the application.

B.18 Permit Amendment or Revision [326 IAC 2-8-10][326 IAC 2-8-11.1]

- (a) Permit amendments and revisions are governed by the requirements of 326 IAC 2-8-10 or 326 IAC 2-8-11.1 whenever the Permittee seeks to amend or modify this permit.
- (b) Any application requesting an amendment or modification of this permit shall be submitted to:
- Indiana Department of Environmental Management
Permits Branch, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251
- Any such application shall be certified by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (c) The Permittee may implement administrative amendment changes addressed in the request for an administrative amendment immediately upon submittal of the request. [326 IAC 2-8-10(b)(3)]

B.19 Operational Flexibility [326 IAC 2-8-15][326 IAC 2-8-11.1]

- (a) The Permittee may make any change or changes at the source that are described in 326 IAC 2-8-15(b) through (d) 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 approval required by 326 IAC 2-8-11.1 has been obtained;

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

(4) The Permittee notifies the:

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

and

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

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

(5) The Permittee maintains records on-site, on a rolling five (5) year basis, which document all such changes and emission trades that are subject to 326 IAC 2-8-15(b) through (d). 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 2-8-15(b)(2), (c)(1), and (d).

- (b) Emission Trades [326 IAC 2-8-15(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 2-8-15(c).
- (c) Alternative Operating Scenarios [326 IAC 2-8-15(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 2-8-4(7). No prior notification of IDEM, OAQ, or U.S. EPA is required.
- (d) 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 2-8-11.1]

A modification, construction, or reconstruction is governed by the requirements of 326 IAC 2 and 326 IAC 2-8-11.1.

B.21 Inspection and Entry [326 IAC 2-8-5(a)(2)][IC 13-14-2-2][IC 13-17-3-2][IC 13-30-3-1]

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 FESOP 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, at reasonable times, 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, at reasonable times, 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, at reasonable times, 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 2-8-10]

- (a) The Permittee must comply with the requirements of 326 IAC 2-8-10 whenever the Permittee seeks to change the ownership or operational control of the source and no other change in the permit is necessary.
- (b) Any application requesting a change in the ownership or operational control of the source shall contain a written agreement containing a specific date for transfer of permit responsibility, coverage and liability between the current and new Permittee. The application shall be submitted to:

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

The application which shall be submitted by the Permittee does require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (c) The Permittee may implement administrative amendment changes addressed in the request for an administrative amendment immediately upon submittal of the request. [326 IAC 2-8-10(b)(3)]

B.23 Annual Fee Payment [326 IAC 2-7-19] [326 IAC 2-8-4(6)] [326 IAC 2-8-16][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) Failure to pay may result in administrative enforcement action or revocation of this permit.
- (c) The Permittee may call the following telephone numbers: 1-800-451-6027 or 317-233-4230 (ask for OAQ, Billing, Licensing, and Training Section), to determine the appropriate permit fee.

B.24 Credible Evidence [326 IAC 2-8-4(3)][326 IAC 2-8-5][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 2-8-4(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 Overall Source Limit [326 IAC 2-8] [326 IAC 2-2]

The purpose of this permit is to limit this source's potential to emit to less than major source levels for the purpose of Section 502(a) of the Clean Air Act.

(a) Pursuant to 326 IAC 2-8:

- (1) The potential to emit any regulated pollutant, except particulate matter (PM), from the entire source shall be limited to less than one hundred (100) tons per twelve (12) consecutive month period. This limitation shall make the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration (PSD) not applicable.
- (2) The potential to emit any individual hazardous air pollutant (HAP) from the entire source shall be limited to less than ten (10) tons per twelve (12) consecutive month period; and
- (3) The potential to emit any combination of HAPs from the entire source shall be limited to less than twenty-five (25) tons per twelve (12) consecutive month period.

(b) The potential to emit particulate matter (PM) from the entire source shall be limited to less than two hundred fifty (250) tons per twelve (12) consecutive month period. This limitation shall make the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration (PSD) not applicable.

(c) This condition shall include all emission points at this source including those that are insignificant as defined in 326 IAC 2-7-1(21). The source shall be allowed to add insignificant activities not already listed in this permit, provided that the source's potential to emit does not exceed the above specified limits.

(d) Section D of this permit contains independently enforceable provisions to satisfy this requirement.

C.3 Opacity [326 IAC 5-1]

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

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

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

C.4 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.5 Incineration [326 IAC 4-2] [326 IAC 9-1-2]

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

C.6 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).

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

The Permittee shall comply with the applicable provisions of 326 IAC 1-7 (Stack Height Provisions), for all exhaust stacks through which a potential (before controls) of twenty-five (25) tons per year or more of particulate matter or sulfur dioxide is emitted.

C.8 Asbestos Abatement Projects [326 IAC 14-10] [326 IAC 18] [40 CFR 61, Subpart M]

- (a) Notification requirements apply to each owner or operator. If the combined amount of regulated asbestos containing material (RACM) to be stripped, removed or disturbed is at least 260 linear feet on pipes or 160 square feet on other facility components, or at least thirty-five (35) cubic feet on all facility components, then the notification requirements of 326 IAC 14-10-3 are mandatory. All demolition projects require notification whether or not asbestos is present.
- (b) The Permittee shall ensure that a written notification is sent on a form provided by the Commissioner at least ten (10) working days before asbestos stripping or removal work or before demolition begins, per 326 IAC 14-10-3, and shall update such notice as necessary, including, but not limited to the following:
 - (1) When the amount of affected asbestos containing material increases or decreases by at least twenty percent (20%); or
 - (2) If there is a change in the following:
 - (A) Asbestos removal or demolition start date;
 - (B) Removal or demolition contractor; or
 - (C) Waste disposal site.
- (c) The Permittee shall ensure that the notice is postmarked or delivered according to the guidelines set forth in 326 IAC 14-10-3(2).
- (d) The notice to be submitted shall include the information enumerated in 326 IAC 14-10-3(3).

All required notifications shall be submitted to:

Indiana Department of Environmental Management
Asbestos Section, Office of Air Quality
100 North Senate Avenue
MC 61-52 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 by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

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

Testing Requirements [326 IAC 2-8-4(3)]

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

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

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

Indiana Department of Environmental Management
Compliance Data Section, Office of Air Quality
100 North Senate Avenue
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 certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (b) The Permittee shall notify IDEM, OAQ of the actual test date at least fourteen (14) days prior to the actual test date. The notification submitted by the Permittee does not require certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

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

Compliance Requirements [326 IAC 2-1.1-11]

C.10 Compliance Requirements [326 IAC 2-1.1-11]

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

Compliance Monitoring Requirements [326 IAC 2-8-4][326 IAC 2-8-5(a)(1)]

C.11 Compliance Monitoring [326 IAC 2-8-4(3)][326 IAC 2-8-5(a)(1)]

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

Indiana Department of Environmental Management
Compliance Branch, Office of Air Quality
100 North Senate Avenue
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 the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

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

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

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

C.13 Instrument Specifications [326 IAC 2-1.1-11] [326 IAC 2-8-4(3)][326 IAC 2-8-5(1)]

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

Corrective Actions and Response Steps [326 IAC 2-8-4][326 IAC 2-8-5(a)(1)]

C.14 Risk Management Plan [326 IAC 2-8-4] [40 CFR 68]

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

C.15 Response to Excursions or Exceedances [326 IAC 2-8-4] [326 IAC 2-8-5]

(a) Upon detecting an excursion or exceedance, the Permittee shall restore operation of the emissions unit (including any control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions.

(b) The response shall include minimizing the period of any startup, shutdown or malfunction and taking any necessary corrective actions to restore normal operation and prevent the likely recurrence of the cause of an excursion or exceedance (other than those caused by excused startup or shutdown conditions). Corrective actions may include, but are not limited to, the following:

- (1) initial inspection and evaluation;
- (2) recording that operations returned to normal without operator action (such as through response by a computerized distribution control system); or
- (3) any necessary follow-up actions to return operation to within the indicator range, designated condition, or below the applicable emission limitation or standard, as applicable.

(c) A determination of whether the Permittee has used acceptable procedures in response to an excursion or exceedance will be based on information available, which may include, but is not limited to, the following:

- (1) monitoring results;
- (2) review of operation and maintenance procedures and records;
- (3) inspection of the control device, associated capture system, and the process.

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

(e) The Permittee shall maintain the following records:

- (1) monitoring data;
- (2) monitor performance data, if applicable; and
- (3) corrective actions taken.

C.16 Actions Related to Noncompliance Demonstrated by a Stack Test [326 IAC 2-8-4][326 IAC 2-8-5]

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

- (b) A retest to demonstrate compliance shall be performed within one hundred twenty (120) days of receipt of the original test results. Should the Permittee demonstrate to IDEM, OAQ that retesting in one hundred twenty (120) days is not practicable, IDEM, OAQ may extend the retesting deadline.
- (c) IDEM, OAQ reserves the authority to take any actions allowed under law in response to noncompliant stack tests.

The response action documents submitted pursuant to this condition do require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

Record Keeping and Reporting Requirements [326 IAC 2-8-4(3)]

C.17 General Record Keeping Requirements [326 IAC 2-8-4(3)] [326 IAC 2-8-5]

- (a) Records of all required monitoring data, reports and support information required by this permit shall be retained for a period of at least five (5) years from the date of monitoring sample, measurement, report, or application. These records shall be physically present or electronically accessible at the source location for a minimum of three (3) years. The records may be stored elsewhere for the remaining two (2) years as long as they are available upon request. If the Commissioner makes a request for records to the Permittee, the Permittee shall furnish the records to the Commissioner within a reasonable time.
- (b) Unless otherwise specified in this permit, all record keeping requirements not already legally required shall be implemented within ninety (90) days of permit issuance.

C.18 General Reporting Requirements [326 IAC 2-8-4(3)(C)] [326 IAC 2-1.1-11]

- (a) The Permittee shall submit the attached Quarterly Deviation and Compliance Monitoring Report or its equivalent. Any deviation from permit requirements, the date(s) of each deviation, the cause of the deviation, and the response steps taken must be reported. This report shall be submitted within thirty (30) days of the end of the reporting period. The Quarterly Deviation and Compliance Monitoring Report shall include the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (b) The report required in (a) of this condition and reports required by conditions in Section D of this permit shall be submitted to:

Indiana Department of Environmental Management
Compliance Data Section, Office of Air Quality
100 North Senate Avenue
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) Unless otherwise specified in this permit, all reports required in Section D of this permit shall be submitted within thirty (30) days of the end of the reporting period. All reports do require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (e) The first report shall cover the period commencing on the date of issuance of this permit and ending on the last day of the reporting period. Reporting periods are based on

calendar years, unless otherwise specified in this permit. For the purpose of this permit "calendar year" means the twelve (12) month period from January 1 to December 31 inclusive.

Stratospheric Ozone Protection

C.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 the standards for recycling and emissions reduction:

- (a) Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices pursuant to 40 CFR 82.156.
- (b) Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to 40 CFR 82.158.
- (c) Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to 40 CFR 82.161.

SECTION D.1 EMISSIONS UNIT OPERATION CONDITIONS

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

- (a) Two (2) receiving lines, identified as Corn Receiving #1 and Corn Receiving #2, consisting of two (2) huskers, identified as Husker 1 and Husker 2, which each consist of six (6) husking beds, installed in 1976, and modified in 1995 and 2007, exhausting to general ventilation, capacity: 1,500 bushels (84,000 pounds) of ear corn per hour for each line and each husker.
- (b) Two (2) natural gas-fired bin dryers, identified as Dry 1 and Dry 2, exhausting to Stacks Dry 1 and Dry 2 installed in 1976, heat input capacity: sixty (60) million British thermal units per hour, each, and a dry rate of 20,238 bushels per batch {500 bushels (28,000 pounds) per hour, each}.
- (c) One (1) bagging unit, identified as EU100, one (1) seed pack fill unit, identified as EU101, one (1) manual seed pack unit, identified as EU105, and one (1) bagging machine, identified as EU12, installed in 1994 and modified in 2005, equipped with a baghouse for particulate control, identified as Red Dust Collector, capacity: 134,400 pounds of seed corn per hour, total.
- (d) One (1) treater, identified as Treater #3, installed in 1994 and modified in 2005, equipped with a baghouse for particulate control, identified as Red Dust Collector, capacity: 500 bushels (28,000 pounds) of shelled corn per hour.
- (e) One (1) Rebagging Aspirator, identified as #13, installed in 1992 and modified in 2005, with a capacity of 114,800 pounds per hour, equipped with a baghouse for particulate control, identified as Red Dust Collector, capacity: 114,800 pounds of seed corn per hour.
- (f) One (1) seed corn debagger, identified as EU34, installed in 2002, exhausting to a baghouse, identified as Red Dust Collector, maximum throughput: 1,000 bushels (56,000 pounds) of seed corn per hour.
- (g) Sixty-nine (69) bulk storage bins, identified as B-1 through B-17, B-21 through B-40, and B-41 through B-72, installed in 1999 and 2007, throughput: 1,000 bushels (56,000 pounds) of shelled corn per hour. Storage bins B-1 through B-4 have a capacity of 11,000 bushels (770,000 pounds) each; storage bins B-5 through B-8 have a capacity of 15,000 bushels (1,050,000 pounds) each; storage bins B-9 through B-12 have a capacity of 11,000 bushels (770,000 pounds) each; storage bins B-13 through B-17 have a capacity of 4,600 bushels (322,000 pounds) each; storage bins B-21 through B-30 have a capacity of 5,000 bushels (350,000 pounds) each; and storage bins B-31 through B-40 have a capacity of 7,500 bushels (525,000 pounds) each; storage bins B-41 through B-56 have a capacity of 7,500 bushels (420,000 pounds), each, and storage bins B-57 through B-72 have a capacity of 5,000 bushels (280,000 pounds), each.
- (h) One (1) small lot bagging operation, installed in 2005, consisting of the CBT-100 treater, identified as EU102, an aspirator, identified as EU103, and bagging unit #2, identified as EU104, exhausting to a baghouse, identified as CE14, capacity: 3,550 bushels (198,800 pounds) per hour, total.
- (i) One (1) natural gas-fired bin dryer, identified as Dry 3, approved for construction in 2007, exhausting to Stack Dry 3, with a drying rate of 500 bushels (28,000 pounds) per hour and a heat input capacity of 160 million British thermal units per hour, equipped with eighteen (18) storage bins, identified as Dry 3 Bins, used for drying with a capacity of 2,000 bushels (152,000 pounds), each.
- (j) One (1) corn sheller, identified as Sheller #1, approved for construction in 2007, exhausting to

- a baghouse for particulate control, identified as CE 15, capacity: 2,500 bushels (140,000 pounds) of corn per hour.
- (k) Two (2) corn handling lines, identified as Line 1 and Line 2, consisting of the following:
- (1) Two (2) cleaners, identified as Cleaner Line 1 and Cleaner Line 2, approved for construction in 2007, exhausting to two (2) baghouses for particulate control, identified as White Dust Collector #1 and White Dust Collector #2, capacity: 500 bushels (28,000 pounds) of shelled corn per hour, each.
 - (2) Two (2) sorters, identified as Sorter Line 1 and Sorter Line 2, approved for construction in 2007, exhausting to two (2) baghouses for particulate control, identified as White Dust Collector #1 and White Dust Collector #2, capacity: 500 bushels (28,000 pounds) of shelled corn per hour, each.
 - (3) Two (2) sizers, identified as Sizer Line 1 and Sizer Line 2, approved for construction in 2007, exhausting to two (2) baghouses for particulate control, identified as White Dust Collector #1 and White Dust Collector #2, capacity: 500 bushels (28,000 pounds) of shelled corn per hour, each.
 - (4) Sixteen (16) gravity tables, identified as Gravity Tables Line 1 and Gravity Tables Line 2, approved for construction in 2007, equipped with sixteen (16) dust collectors for particulate control, identified as Gravity Table Dust Collectors #1 through #16, capacity: 1,000 bushels (56,000 pounds) of shelled corn per hour, total.
 - (5) Twenty-four (24) storage bins, identified as Storage Bins Lines 1 and Storage Bins Line 2, approved for construction in 2007, throughput capacity: 1,000 bushels (56,000 pounds) of shelled corn per hour, total.
- (l) New treating/packing machinery, consisting of the following:
- (1) Three (3) aspirators, identified as Aspirator #1 through #3, approved for construction in 2007, exhausting to a baghouse, identified as Red Dust Collector, capacity: 1,000 bushels (56,000 pounds) of shelled corn per hour, total.
 - (2) Two (2) treaters, identified as Treater #1 and #2, approved for construction in 2007, exhausting to a baghouse, identified as Red Dust Collector, capacity: 1,000 bushels (56,000 pounds) of shelled corn per hour, total.
 - (3) Twelve (12) storage bins, identified as Treating and Packing Storage Bins 1 through 12, approved for construction in 2007, capacity: 1,000 bushels (56,000 pounds) of shelled corn per hour, total.
- (m) Two (2) new corn receiving lines identified as Corn Receiving #3 and Corn Receiving #4, consisting of two (2) new huskers, identified as Husker 3 and Husker 4, which each consist of six (6) husking beds, approved for construction in 2007, exhausting to general ventilation, capacity: 1,500 bushels (84,000 pounds) of ear corn per hour for each line and each husker.
- (n) Two (2) new natural gas-fired bin dryers identified as Dry 4 and Dry 5, approved for construction in 2007, exhausting to Stack Dry 4 and Stack Dry 5, with a drying rate of 500 bushels (28,000 pounds) per hour and a heat input capacity of 160 million British thermal units per hour, each equipped with eighteen (18) storage bins, identified as Dry 4 and Dry 5 Bins, used for drying with a capacity of 2,000 bushels (112,000 pounds), each.
- (o) One (1) new corn sheller, identified as Sheller #2, approved for construction in 2007,

exhausting to a baghouse for particulate control, identified as CE15, capacity: 2,500 bushels (140,000 pounds) of corn per hour.

- (p) Seventy-two (72) new bulk storage bins, identified as B-73 through B-144, approved for construction in 2007, exhausting to a baghouse for particulate control, identified as CE 34, throughput: 2,000 bushels (112,000 pounds) of shelled corn per hour. Storage bins B-73 through B-108 have a capacity of 7,500 bushels (420,000 pounds), each, and storage bins B-109 through B-144 have a capacity of 5,000 bushels (280,000 pounds), each.

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

The construction conditions in this section of the permit are being issued under the provisions of 326 IAC 2-1 and 326 IAC 2-7-10.5, with conditions listed below, for the new emissions units described in (m) and (p) above.

Construction Conditions

General Construction Conditions

D.1.1 Permit No Defense

This permit 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.

D.1.2 Effective Date of the Permit [IC13-15-5-3]

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

D.1.3 Modification to Construction Conditions [326 IAC 2]

All requirements of these construction conditions shall remain in effect unless modified in a manner consistent with procedures established for modifications pursuant to 326 IAC 2.

Operation Conditions

Emission Limitations and Standards [326 IAC 2-8-4(1)]

D.1.4 Particulate Matter (PM) [326 IAC 6-3-2]

Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), the particulate emission rate from the following emission units and control devices shall not exceed the pounds per hour limitation when operating at the stated process weight rates calculated using the following equations:

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

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

or

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

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

Emission Unit (baghouse)	Process weight rate (tons per hour)	Allowable particulate emission rate (pounds per hour)
Corn Receiving 1, 2, 3, and 4 (none)	28.0	38.2
Huskers 1, 2, 3, and 4, part of Corn Receiving 1, 2, 3, and 4 (none)	28.0	38.2
Five (5) natural gas-fired bin dryers, identified as Dry 1 (Stack Dry 1), Dry 2 (Stack Dry 2), Dry 3 (Stack Dry 3), Dry 4 (Stack Dry 4), and Dry 5 (Stack Dry 5)	28.0	38.2
One (1) debagger, identified as EU34 (Baghouse Red Dust Collector)	28.0	38.2
One (1) Corn Sheller, identified as Sheller 1 (Baghouse CE 15)	70.0	47.8
One (1) Corn Sheller, identified as Sheller 2 (Baghouse CE 15)	70.0	47.8
One (1) rebagging unit, identified as #13 (Baghouse Red Dust Collector)	57.4	45.9
One small lot bagging operation, consisting of EU102 through EU104 (Baghouse CE 14)	85.0	49.66
Treating/Packing Machinery, consisting of the following emission units:		
Aspirators #1 through #3 (Baghouse Red Dust Collector)	28.0	38.2
Treaters #1 through #3 (Baghouse Red Dust Collector)	42.0	42.96
One (1) bagging unit, identified as EU100, one (1) seed pack fill unit, identified as EU101, one (1) manual seed pack unit, identified as EU105, and one (1) bagging machine, identified as EU12 (Baghouse Red Dust Collector)	33.6	40.96
Twelve (12) Storage Bins, identified as Treating and Packing Storage Bins 1 through 12	28.0	38.2

Emission Unit (baghouse)	Process weight rate (tons per hour)	Allowable particulate emission rate (pounds per hour)
Two (2) Corn Handling Lines, identified as Lines 1 and 2, consisting of the following:		
Sixty-Nine (69) Bulk Storage Bins, identified as B-1 through B-17 and B-21 through B-72	28.0	38.2
Seventy-Two (72) Bulk Storage Bins, identified as B-73 through B-144	56.0	45.64
Cleaners, Lines 1 and 2 (White Dust Collector #1 and #2)	28.0	38.2
Eight (8) Gravity Tables, Line 1 (Gravity Table Dust Collectors #1 through #8)	1.75, each	5.97, each
Eight (8) Gravity Tables, Line 2 (Gravity Table Dust Collectors #9 through #16)	1.75, each	5.97, each
Sorters, Lines 1 and 2 (White Dust Collector #1 and #2)	28.0	38.2
Sizers, Lines 1 and 2 (White Dust Collector #1 and #2)	28.0	38.2

In addition, several of the emission units exhaust through the same baghouse or stack. The allowable particulate pursuant to 326 IAC 6-3-2 has been tabulated by stack/exhaust and baghouse as follows:

Stack # or Exhaust	Emission Unit	Process Weight (tons per hour)	PM Emission Rate (pounds per hour)
Red Dust Collector	EU 34	Subtotal of 28.0	38.2
	EU 100 EU 101 EU 105 EU12	Subtotal of 33.6	40.96
	Aspirators #1 - #3	Subtotal of 28.0	38.2
	Treaters #1- #3	Subtotal of 42.0	42.96
			Total: 160.32
Baghouse CE14	EU102 EU103 EU104	85	49.66
Baghouse CE15	Sheller 1 Sheller 2	140	54.72
White Dust Collector #1	Sorter, Line 1	14.0	24.0
	Cleaner, Line 1	14.0	24.0
	Sizer, Line 1	14.0	24.0
			Total: 72.0

Stack # or Exhaust	Emission Unit	Process Weight (tons per hour)	PM Emission Rate (pounds per hour)
White Dust Collector #2	Sorter, Line 2	14.0	24.0
	Cleaner, Line 2	14.0	24.0
	Sizer, Line 2	14.0	24.0
			Total: 72.0

D.1.5 Particulate Matter (PM) [326 IAC 2-2]

The PM emissions from the four (4) corn receiving lines, identified as Corn Receiving 1, 2, 3, and 4, four (4) huskers, identified as Husker 1, 2, 3, and 4, five (5) natural gas-fired bin dryers, identified as Dry 1, 2, 3, 4, and 5 (grain drying), two (2) cleaners, identified as Cleaners Lines 1 and 2, the two (2) sorters, identified as Sorters Lines 1 and 2, the two (2) sizers, identified as Sizers Lines 1 and 2, and the sixteen (16) gravity tables, identified as Gravity Tables Lines 1 and 2, which are all part of the two (2) corn handling lines, identified as Lines 1 and 2, the one (1) bagging unit, identified as EU100, the one (1) seed pack fill unit, identified as EU101, the one (1) manual seed pack unit, identified as EU105, the one (1) bagging machine, identified as EU12, and the one (1) small lot bagging operation, consisting of EU102 through EU104, shall be limited to less than the throughput and emission limits specified in the following table:

Emission Units (Baghouse)	Limited Corn Throughput (tons/yr*)	PM Emission Limit (lbs PM/ton corn)
Corn Receiving 1, 2, 3, and 4	245,280, total	0.035
Huskers 1, 2, 3, and 4	245,280, total	0.061
Dry 1, 2, 3, 4, and 5 (grain)	245,280, total	0.47
Line 1: Cleaner, Sorter, Sizer (White Dust Collector #1)	61,320, total	0.062
Line 2: Cleaner, Sorter, and Sizer (White Dust Collector #2)	61,320, total	0.062
Line 1: Eight (8) Gravity Tables (Gravity Table Dust Collectors #1 through #8)	61,320, total	0.269
Line 2: Eight (8) Gravity Tables (Gravity Table Dust Collectors #9 through #16)	61,320, total	0.269
One (1) bagging unit, identified as EU100, one (1) seed pack fill unit, identified as EU101, one (1) manual seed pack unit, identified as EU105, and one (1) bagging machine, identified as EU12 (Red Dust Collector)	294,336, total	0.061
One (1) small lot bagging operation, consisting of EU102 through EU104 (CE 14)	744,600, total	0.061

*Note that "yr" represents twelve (12) consecutive month period, with compliance determined at the end of each month.

D.1.6 Particulate Matter (PM₁₀) [326 IAC 2-8-4]

The PM₁₀ emissions from the four (4) corn receiving lines, identified as corn receiving 1, 2, 3, and 4, four (4) huskers, identified as Husker 1, 2, 3, and 4, five (5) natural gas-fired bin dryers, identified as Dry 1, 2, 3, 4, and 5 (grain drying), two (2) cleaners, identified as Cleaners Lines 1 and 2, the two (2) sorters, identified as Sorters Lines 1 and 2, the two (2) sizers, identified as Sizers Lines 1 and 2, and the sixteen (16) gravity tables, identified as Gravity Tables Lines 1 and 2, which are all part of the two (2) corn handling lines, identified as Lines 1 and 2, the one (1) bagging unit, identified as EU100, the one (1) seed pack fill unit, identified as EU101, the one (1) manual seed pack unit, identified as EU105, the one (1) bagging machine, identified as EU12, and the one (1) small lot bagging operation, consisting of EU102 through EU104, shall be limited to less than the throughput and emission limits specified in the following table:

Emission Units (Baghouse)	Limited Corn Throughput (tons/yr*)	PM₁₀ Emission Limit (lbs PM₁₀/ton corn)
Corn Receiving 1, 2, 3, and 4	245,280, total	0.0078
Huskers 1, 2, 3, and 4	245,280, total	0.034
Dry 1, 2, 3, 4, and 5 (grain)	245,280, total	0.12
Line 1: Cleaner, Sorter, Sizer (White Dust Collector #1)	61,320, total	0.062
Line 2: Cleaner, Sorter, and Sizer (White Dust Collector #2)	61,320, total	0.062
Line 1: Eight (8) Gravity Tables (Gravity Table Dust Collectors #1 through #8)	61,320, total	0.269
Line 2: Eight (8) Gravity Tables (Gravity Table Dust Collectors #9 through #16)	61,320, total	0.269
One (1) bagging unit, identified as EU100, one (1) seed pack fill unit, identified as EU101, one (1) manual seed pack unit, identified as EU105, and one (1) bagging machine, identified as EU12 (Red Dust Collector)	294,336, total	0.034
One (1) small lot bagging operation, consisting of EU102 through EU104 (CE 14)	744,600, total	0.034

*Note that "yr" represents twelve (12) consecutive month period, with compliance determined at the end of each month.

Compliance with these limitations shall render the requirements of 326 IAC 2-7, Part 70, not applicable.

D.1.7 Natural Gas Limit [326 IAC 2-8-4]

- (a) The natural gas usage at the two (2) natural gas-fired bin dryers, identified as Dry 1 and Dry 2, shall be less than 268 million cubic feet of gas per twelve (12) consecutive month period, total, with compliance determined at the end of each month. As a result of the natural gas limit:

- (1) NO_x from the two (2) natural gas-fired bin dryers, identified as Dry 1 and Dry 2, shall be limited to 100 pounds of NO_x per million cubic feet of gas, total.
 - (2) CO from the two (2) natural gas-fired bin dryers, identified as Dry 1 and Dry 2, shall be limited to 84 pounds of CO per million cubic feet of gas, total.
- (b) The natural gas usage at the three (3) natural gas-fired bin dryers, identified as Dry 3, Dry 4, and Dry 5, shall be less than 858.9 million cubic feet of gas per twelve (12) consecutive month period, with compliance determined at the end of each month. As a result of the natural gas limit:
- (1) NO_x from the three (3) natural gas-fired bin dryers, identified as Dry 3, Dry 4, and Dry 5, shall be limited to 190 pounds of NO_x per million cubic feet of gas.
 - (2) CO from the three (3) natural gas-fired bin dryers, identified as Dry 3, Dry 4, and Dry 5, shall be limited to 84 pounds of CO per million cubic feet of gas.
- (c) Compliance with these limitations shall render the requirements of 326 IAC 2-7, Part 70, not applicable.

D.1.8 Volatile Organic Compounds (VOCs) [326 IAC 8-1-6]

- (a) The VOC usage at each of the three (3) treaters, identified as Treaters #1 through #3, shall be limited to less than twenty-five (25.0) tons per twelve (12) consecutive month period, with compliance determined at the end of each month.
- (b) Compliance with these limits shall render the requirements of 326 IAC 8-1-6 not applicable.

D.1.9 Preventive Maintenance Plan [326 IAC 1-6-3]

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for these facilities and their respective control devices.

Compliance Determination Requirements

D.1.10 Testing Requirements [326 IAC 2-8-5(a)(1), (4)] [326 IAC 2-1.1-11]

Within 180 days after startup of the two (2) corn handling lines, identified as Lines 1 and 2, to demonstrate compliance with Condition D.1.1, D.1.2 and D.1.3, the Permittee shall perform PM and PM₁₀ testing for the two (2) cleaners, identified as Cleaners Lines 1 and 2, the two (2) sorters, identified as Sorters Lines 1 and 2, and the two (2) sizers, identified as Sizers Lines 1 and 2, all exhausting to two (2) baghouses, identified as White Dust Collector #1 and #2; and four (4) of the sixteen (16) gravity tables, identified as Gravity Tables Lines 1 and 2, exhausting to sixteen (16) baghouses, identified as Gravity Table Dust Collectors #1 - #8 and Gravity Table Dust Collectors #9 - #16, utilizing methods as approved by the Commissioner. PM₁₀ includes filterable and condensable PM₁₀. Testing shall be conducted in accordance with Section C - Performance Testing.

D.1.11 Particulate Control

- (a) In order to comply with Conditions D.1.2 and D.1.3, the baghouses, identified as White Dust Collectors #1 and #2, Gravity Table Dust Collectors #1 through #16, for particulate control shall be in operation and control emissions from the two (2) cleaners, identified as Cleaners Lines 1 and 2, the two (2) sorters, identified as Sorters Lines 1 and 2, and the two (2) sizers, identified as Sizers Lines 1 and 2, the sixteen (16) gravity tables, identified as Gravity Tables Lines 1 and 2, and at all times that the emission units are in operation.
- (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.

Compliance Monitoring Requirements

D.1.12 Visible Emissions Notations

- (a) Visible emission notations of the White Dust Collector #1 and #2 and Gravity Table Dust Collectors #1 through #16, exhausts shall be performed once per day during normal daylight operations when exhausting to the atmosphere. A trained employee shall record whether emissions are normal or abnormal.
- (b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.
- (c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.
- (d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.
- (e) If abnormal emissions are observed, the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions or Exceedances. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances shall be considered a deviation from this permit.

D.1.13 Baghouse Parametric Monitoring

- (a) The Permittee shall record the pressure drop across the baghouses, identified as White Dust Collectors #1 and #2 and Gravity Table Dust Collectors #1 through #16, used in conjunction with the two (2) cleaners, identified as Cleaners Lines 1 and 2, the two (2) sorters, identified as Sorters Lines 1 and 2, the two (2) sizers, identified as Sizers Lines 1 and 2, and the sixteen (16) gravity tables, identified as Gravity Tables Lines 1 and 2, all part of the two (2) Corn Handling Lines, identified as Lines 1 and 2, at least once per day when either of the two (2) corn handling lines is in operation. When for any one reading, the pressure drop across the baghouse is outside the normal range of 1.0 and 6.0 inches of water or a range established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions or Exceedances. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances, shall be considered a deviation from this permit.
- (b) The instrument used for determining the pressure shall comply with Section C - Instrument Specifications, of this permit, shall be subject to approval by IDEM, OAQ, and shall be calibrated at least once every six (6) months.

D.1.14 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, or dust traces.

Record Keeping and Reporting Requirements [326 IAC 2-8-4(3)] [326 IAC 2-8-16]

D.1.15 Record Keeping Requirements

- (a) To document compliance with Condition D.1.7, the Permittee shall maintain records of the amount of natural gas used per month at the five (5) natural gas-fired bin dryers, identified as Dry 1, Dry 2, Dry 3, Dry 4, and Dry 5.
- (b) To document compliance with Conditions D.1.5 and D.1.6, the Permittee shall maintain records of the monthly corn throughput at the four (4) corn receiving lines, identified as Corn Receiving 1, 2, 3, and 4, four (4) huskers, identified as Husker 1, 2, 3, and 4, five (5) natural gas-fired bin dryers, identified as Dry 1, 2, 3, 4, and 5 (grain drying), two (2) cleaners, identified as Cleaners Lines 1 and 2, the two (2) sorters, identified as Sorters Lines 1 and 2, the two (2) sizers, identified as Sizers Lines 1 and 2, and the sixteen (16) gravity tables, identified as Gravity Tables Lines 1 and 2, all part of the two (2) Corn Handling Lines, identified as Lines 1 and 2, the one (1) bagging unit, identified as EU100, the one (1) seed pack fill unit, identified as EU101, the one (1) manual seed pack unit, identified as EU105, the one (1) bagging machine, identified as EU12, and the one (1) small lot bagging operation, consisting of EU102 through EU104.
- (c) To document compliance with Condition D.1.8, the Permittee shall maintain records in accordance with (1) through (5) below. Records maintained for (1) through (5) shall be taken monthly and shall be complete and sufficient to establish compliance with the VOC usage limits and/or the VOC emission limits established in Condition D.1.8. Records necessary to demonstrate compliance shall be available within thirty (30) days of the end of each compliance period.
 - (1) The VOC content of each coating material and solvent used.
 - (2) The amount of coating material and solvent less water used on a monthly basis.
 - (A) Records shall include purchase orders, invoices, and material safety data sheets (MSDS) necessary to verify the type and amount used.
 - (B) Solvent usage records shall differentiate between those added to coatings and those used as cleanup solvents.
 - (3) The cleanup solvent usage for each month;
 - (4) The total VOC usage for each month; and
 - (5) The weight of VOCs emitted for each compliance period.
- (d) To document compliance with Condition D.1.12, the Permittee shall maintain daily

records of visible emission notations of each of the two (2) cleaners, identified as Cleaners Lines 1 and 2, the two (2) sorters, identified as Sorters Lines 1 and 2, and the two (2) sizers, identified as Sizers Lines 1 and 2, and the sixteen (16) gravity tables, identified as Gravity Tables Lines 1 and 2, 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).

- (e) To document compliance with Condition D.1.13, the Permittee shall maintain daily records of the pressure drop across the baghouses identified as White Dust Collectors #1 and #2 and Gravity Table Dust Collectors #1 through #16. The Permittee shall include in its daily record when a pressure drop reading is not taken and the reason for the lack of a pressure drop reading (e.g., the process did not operate that day).
- (f) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

D.1.16 Reporting Requirements

A quarterly summary of the information to document compliance with Conditions D.1.5 through D.1.8 shall be submitted to the address listed in Section C - General Reporting Requirements, of this permit, using the reporting forms located at the end of this permit, or their equivalent, within thirty (30) days after the end of the quarter being reported. The report submitted by the Permittee does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY**

**FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP)
CERTIFICATION**

Source Name: Monsanto Company
Source Address: 15489 South US Highway 231 Remington, Indiana 47977
Mailing Address: P.O. Box 35, Remington, Indiana 47977
FESOP No.: F 073-24875-00035

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

Please check what document is being certified:

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

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

Signature:

Printed Name:

Title/Position:

Date:

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

**FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP)
EMERGENCY OCCURRENCE REPORT**

Source Name: Monsanto Company
Source Address: 15489 South US Highway 231, Remington, Indiana 47977
Mailing Address: P.O. Box 35, Remington, Indiana 47977
FESOP No.: F 073-24875-00035

This form consists of 2 pages

Page 1 of 2

- | |
|---|
| <input type="checkbox"/> This is an emergency as defined in 326 IAC 2-7-1(12) <ul style="list-style-type: none">• The Permittee must notify the Office of Air Quality (OAQ), within four (4) business hours (1-800-451-6027 or 317-233-0178, ask for Compliance Section); and• The Permittee must submit notice in writing or by facsimile within two (2) working days (Facsimile Number: 317-233-6865), and follow the other requirements of 326 IAC 2-7-16 |
|---|

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

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

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

Page 2 of 2

Date/Time Emergency started:
Date/Time Emergency was corrected:
Was the facility being properly operated at the time of the emergency? Y N Describe:
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: _____

A certification is not required for this report.

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE DATA SECTION**

FESOP Quarterly Report

Source Name: Monsanto Company
Source Address: 15489 South US Highway 231, Remington, Indiana 47977
Mailing Address: P.O. Box 35, Remington, Indiana 47977
FESOP No.: F 073-24875-00035
Facility: One (1) treater, identified as Treater #1
Parameter: VOC usage
Limit: Less than twenty-five (25.0) tons per twelve consecutive month period, with compliance determined at the end of each month.

YEAR: _____

Month	VOC Usage (tons)	VOC Usage (tons)	VOC Usage (tons)
	This Month	Previous 11 Months	12 Month Total

- No deviation occurred in this month.
- Deviation/s occurred in this month.
Deviation has been reported on _____

Submitted by: _____

Title/Position: _____

Signature: _____

Date: _____

Phone: _____

Attach a signed certification to complete this report.

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE DATA SECTION**

FESOP Quarterly Report

Source Name: Monsanto Company
Source Address: 15489 South US Highway 231, Remington, Indiana 47977
Mailing Address: P.O. Box 35, Remington, Indiana 47977
FESOP No.: F 073-24875-00035
Facility: One (1) treater, identified as Treater #2
Parameter: VOC usage
Limit: Less than twenty-five (25.0) tons per twelve consecutive month period, with compliance determined at the end of each month.

YEAR: _____

Month	VOC Usage (tons)	VOC Usage (tons)	VOC Usage (tons)
	This Month	Previous 11 Months	12 Month Total

- No deviation occurred in this month.
 Deviation/s occurred in this month.
Deviation has been reported on _____

Submitted by: _____

Title/Position: _____

Signature: _____

Date: _____

Phone: _____

Attach a signed certification to complete this report.

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE DATA SECTION**

FESOP Quarterly Report

Source Name: Monsanto Company
Source Address: 15489 South US Highway 231, Remington, Indiana 47977
Mailing Address: P.O. Box 35, Remington, Indiana 47977
FESOP No.: F 073-24875-00035
Facility: One (1) treater, identified as Treater #3
Parameter: VOC usage
Limit: Less than twenty-five (25.0) tons per twelve consecutive month period, with compliance determined at the end of each month.

YEAR: _____

Month	VOC Usage (tons)	VOC Usage (tons)	VOC Usage (tons)
	This Month	Previous 11 Months	12 Month Total

- No deviation occurred in this month.
- Deviation/s occurred in this month.
Deviation has been reported on _____

Submitted by: _____

Title/Position: _____

Signature: _____

Date: _____

Phone: _____

Attach a signed certification to complete this report.

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF AIR QUALITY
 COMPLIANCE DATA SECTION**

FESOP Quarterly Report

Source Name: Monsanto Company
 Source Address: 15489 South US Highway 231, Remington, Indiana 47977
 Mailing Address: P.O. Box 35, Remington, Indiana 47977
 FESOP No.: F 073-24875-00035
 Facility: Two (2) natural gas-fired bin dryers, identified as Dry 1 and Dry 2
 Parameter: Natural gas usage
 Limit: Less than 268 million cubic feet (mmCF) of natural gas per twelve (12) consecutive month period, total, with compliance determined at the end of each month.

YEAR: _____

Month	Natural Gas Usage (mmCF)	Natural Gas Usage (mmCF)	Natural Gas Usage (mmCF)
	This Month	Previous 11 Months	12 Month Total

- No deviation occurred in this month.
- Deviation/s occurred in this month.
 Deviation has been reported on _____

Submitted by: _____

Title/Position: _____

Signature: _____

Date: _____

Phone: _____

Attach a signed certification to complete this report.

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE DATA SECTION**

FESOP Quarterly Report

Source Name: Monsanto Company
Source Address: 15489 South US Highway 231, Remington, Indiana 47977
Mailing Address: P.O. Box 35, Remington, Indiana 47977
FESOP No.: F 073-24875-00035
Facility: Three (3) natural gas-fired bin dryers, identified as Dry 3, Dry 4, and Dry 5
Parameter: Natural gas usage
Limit: Less than 858.9 million cubic feet (mmCF) of natural gas per twelve (12) consecutive month period, with compliance determined at the end of each month.

YEAR: _____

Month	Natural Gas Usage (mmCF)	Natural Gas Usage (mmCF)	Natural Gas Usage (mmCF)
	This Month	Previous 11 Months	12 Month Total

- No deviation occurred in this month.
- Deviation/s occurred in this month.
Deviation has been reported on _____

Submitted by: _____

Title/Position: _____

Signature: _____

Date: _____

Phone: _____

Attach a signed certification to complete this report.

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE DATA SECTION**

FESOP Quarterly Report

Source Name: Monsanto Company
Source Address: 15489 South US Highway 231, Remington, Indiana 47977
Mailing Address: P.O. Box 35, Remington, Indiana 47977
FESOP No.: F 073-24875-00035
Facilities: Cleaners, Sorters, Sizers, Line 1
Parameter: Corn Throughput
Limit: Less than 61,320 tons per twelve (12) consecutive month period, with compliance determined at the end of each month.

YEAR: _____

Month	Corn Throughput (tons)	Corn Throughput (tons)	Corn Throughput (tons)
	This Month	Previous 11 Months	12 Month Total

- No deviation occurred in this month.
- Deviation/s occurred in this month.
Deviation has been reported on _____

Submitted by: _____

Title/Position: _____

Signature: _____

Date: _____

Phone: _____

Attach a signed certification to complete this report.

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE DATA SECTION**

FESOP Quarterly Report

Source Name: Monsanto Company
Source Address: 15489 South US Highway 231, Remington, Indiana 47977
Mailing Address: P.O. Box 35, Remington, Indiana 47977
FESOP No.: F 073-24875-00035
Facilities: Cleaners, Sorters, Sizers, Line 2
Parameter: Corn Throughput
Limit: Less than 61,320 tons per twelve (12) consecutive month period, with compliance determined at the end of each month.

YEAR: _____

Month	Corn Throughput (tons)	Corn Throughput (tons)	Corn Throughput (tons)
	This Month	Previous 11 Months	12 Month Total

- No deviation occurred in this month.
- Deviation/s occurred in this month.
Deviation has been reported on _____

Submitted by: _____

Title/Position: _____

Signature: _____

Date: _____

Phone: _____

Attach a signed certification to complete this report.

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE DATA SECTION**

FESOP Quarterly Report

Source Name: Monsanto Company
Source Address: 15489 South US Highway 231, Remington, Indiana 47977
Mailing Address: P.O. Box 35, Remington, Indiana 47977
FESOP No.: F 073-24875-00035
Facilities: Gravity Tables, Line 1
Parameter: Corn Throughput
Limit: Less than 61,320 tons per twelve (12) consecutive month period, with compliance determined at the end of each month.

YEAR: _____

Month	Corn Throughput (tons)	Corn Throughput (tons)	Corn Throughput (tons)
	This Month	Previous 11 Months	12 Month Total

- No deviation occurred in this month.
- Deviation/s occurred in this month.
Deviation has been reported on _____

Submitted by: _____

Title/Position: _____

Signature: _____

Date: _____

Phone: _____

Attach a signed certification to complete this report.

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE DATA SECTION**

FESOP Quarterly Report

Source Name: Monsanto Company
Source Address: 15489 South US Highway 231, Remington, Indiana 47977
Mailing Address: P.O. Box 35, Remington, Indiana 47977
FESOP No.: F 073-24875-00035
Facilities: Gravity Tables, Line 2
Parameter: Corn Throughput
Limit: Less than 61,320 tons per twelve (12) consecutive month period, with compliance determined at the end of each month.

YEAR: _____

Month	Corn Throughput (tons)	Corn Throughput (tons)	Corn Throughput (tons)
	This Month	Previous 11 Months	12 Month Total

- No deviation occurred in this month.
- Deviation/s occurred in this month.
Deviation has been reported on _____

Submitted by: _____

Title/Position: _____

Signature: _____

Date: _____

Phone: _____

Attach a signed certification to complete this report.

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE DATA SECTION**

FESOP Quarterly Report

Source Name: Monsanto Company
Source Address: 15489 South US Highway 231, Remington, Indiana 47977
Mailing Address: P.O. Box 35, Remington, Indiana 47977
FESOP No.: F 073-24875-00035
Facilities: One (1) bagging unit, identified as EU100, one (1) seed pack fill unit, identified as EU101, one (1) manual seed pack unit, identified as EU105, and one (1) bagging machine, identified as EU12
Parameter: Corn Throughput
Limit: Less than 294,336 tons per twelve (12) consecutive month period, with compliance determined at the end of each month.

YEAR: _____

Month	Corn Throughput (tons)	Corn Throughput (tons)	Corn Throughput (tons)
	This Month	Previous 11 Months	12 Month Total

- No deviation occurred in this month.
- Deviation/s occurred in this month.
Deviation has been reported on _____

Submitted by: _____

Title/Position: _____

Signature: _____

Date: _____

Phone: _____

Attach a signed certification to complete this report.

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE DATA SECTION**

FESOP Quarterly Report

Source Name: Monsanto Company
Source Address: 15489 South US Highway 231, Remington, Indiana 47977
Mailing Address: P.O. Box 35, Remington, Indiana 47977
FESOP No.: F 073-24875-00035
Facilities: One (1) small lot bagging operation, consisting of EU102 through EU104.
Parameter: Corn Throughput
Limit: Less than 744,600 tons per twelve (12) consecutive month period, with compliance determined at the end of each month.

YEAR: _____

Month	Corn Throughput (tons)	Corn Throughput (tons)	Corn Throughput (tons)
	This Month	Previous 11 Months	12 Month Total

- No deviation occurred in this month.
 Deviation/s occurred in this month.
Deviation has been reported on _____

Submitted by: _____

Title/Position: _____

Signature: _____

Date: _____

Phone: _____

Attach a signed certification to complete this report.

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE DATA SECTION**

FESOP Quarterly Report

Source Name: Monsanto Company
Source Address: 15489 South US Highway 231, Remington, Indiana 47977
Mailing Address: P.O. Box 35, Remington, Indiana 47977
FESOP No.: F 073-24875-00035
Facilities: Four (4) Receiving Lines, identified as Corn Receiving #1, Corn Receiving #2, Corn Receiving #3, and Corn Receiving #4
Parameter: Corn Throughput
Limit: Less than 245,280 tons per twelve (12) consecutive month period, with compliance determined at the end of each month.

YEAR: _____

Month	Corn Throughput (tons)	Corn Throughput (tons)	Corn Throughput (tons)
	This Month	Previous 11 Months	12 Month Total

- No deviation occurred in this month.
 Deviation/s occurred in this month.
Deviation has been reported on _____

Submitted by: _____

Title/Position: _____

Signature: _____

Date: _____

Phone: _____

Attach a signed certification to complete this report.

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE DATA SECTION**

FESOP Quarterly Report

Source Name: Monsanto Company
Source Address: 15489 South US Highway 231, Remington, Indiana 47977
Mailing Address: P.O. Box 35, Remington, Indiana 47977
FESOP No.: F 073-24875-00035
Facilities: Four (4) Huskers, identified as Husker 1, Husker 2, Husker 3, and Husker 4
Parameter: Corn Throughput
Limit: Less than 245,280 tons per twelve (12) consecutive month period, with compliance determined at the end of each month.

YEAR: _____

Month	Corn Throughput (tons)	Corn Throughput (tons)	Corn Throughput (tons)
	This Month	Previous 11 Months	12 Month Total

- No deviation occurred in this month.
- Deviation/s occurred in this month.
Deviation has been reported on _____

Submitted by: _____

Title/Position: _____

Signature: _____

Date: _____

Phone: _____

Attach a signed certification to complete this report.

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE DATA SECTION**

FESOP Quarterly Report

Source Name: Monsanto Company
Source Address: 15489 South US Highway 231, Remington, Indiana 47977
Mailing Address: P.O. Box 35, Remington, Indiana 47977
FESOP No.: F 073-24875-00035
Facilities: Five (5) natural gas-fired bin dryers, identified as Dry 1, Dry 2, Dry 3, Dry 4, and Dry 5
Parameter: Corn Throughput
Limit: Less than 245,280 tons per twelve (12) consecutive month period, with compliance determined at the end of each month.

YEAR: _____

Month	Corn Throughput (tons)	Corn Throughput (tons)	Corn Throughput (tons)
	This Month	Previous 11 Months	12 Month Total

- No deviation occurred in this month.
- Deviation/s occurred in this month.
Deviation has been reported on _____

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

Attach a signed certification to complete this report.

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE DATA SECTION**

**FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP)
QUARTERLY DEVIATION AND COMPLIANCE MONITORING REPORT**

Source Name: Monsanto Company
Source Address: 15489 South US Highway 231, Remington, Indiana 47977
Mailing Address: P.O. Box 35, Remington, Indiana 47977
FESOP No.: F 073-24875-00035

Months: _____ to _____ Year: _____

Page 1 of 2

<p>This report shall be submitted quarterly based on a calendar year. Any deviation from the requirements, the date(s) of each deviation, the probable cause of the deviation, and the response steps taken must be reported. A deviation required to be reported pursuant to an applicable requirement that exists independent of the permit, shall be reported according to the schedule stated in the applicable requirement and does not need to be included in this report. Additional pages may be attached if necessary. If no deviations occurred, please specify in the box marked "No deviations occurred this reporting period".</p>	
<input type="checkbox"/> NO DEVIATIONS OCCURRED THIS REPORTING PERIOD.	
<input type="checkbox"/> 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: _____

A certification is not required for this report.

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

Addendum to the Technical Support Document (TSD) for a
Significant Permit Revision (SPR) to a
Federally Enforceable State Operating Permit

Source Background and Description

Source Name:	Monsanto Company
Source Location:	15849 South U.S. Highway 231, Remington, IN 47977
County:	Jasper
SIC Code:	0723
Operation Permit No.:	F073-23632-00035
Operation Permit Issuance Date:	February 20, 2007
Significant Permit Revision No.:	073-24875-00035
Permit Reviewer:	Brian M Williams

On August 1, 2007, the Office of Air Quality (OAQ) had a notice published in the Rensselaer Republican newspaper in Jasper County, Indiana, stating that Monsanto Company had applied for a Significant Permit Revision (SPR) to their Federally Enforceable State Operating Permit (FESOP) to construct and operate new equipment at their existing stationary hybrid corn seed processing plant located at 15849 South U.S. Highway 231, Remington, Indiana 47977. The notice also stated that the OAQ proposed to issue a FESOP SPR for this operation and provided information on how the public could review the proposed permit and other documentation. Finally, the notice informed interested parties that there was a period of thirty (30) days to provide comments on whether or not this permit should be issued as proposed.

Upon further review IDEM, OAQ has decided to make additional changes to the permit as listed below. The Technical Support Document (TSD) is used by IDEM, OAQ for historical purposes. IDEM, OAQ does not make any changes to the original TSD, but the Permit will have the updated changes. The permit is revised as follows with deleted language as ~~strikeouts~~ and new language **bolded**:

Change 1: Conditions D.1.5 and D.1.6 are revised to include new language in order to clarify which emission units have throughput and emission limits.

D.1.5 Particulate Matter (PM) [326 IAC 2-2]

The PM emissions from the four (4) corn receiving lines, identified as Corn Receiving 1, 2, 3, and 4, four (4) huskers, identified as Husker 1, 2, 3, and 4, five (5) natural gas-fired bin dryers, identified as Dry 1, 2, 3, 4, and 5 (grain drying), two (2) cleaners, identified as Cleaners Lines 1 and 2, the two (2) sorters, identified as Sorters Lines 1 and 2, the two (2) sizers, identified as Sizers Lines 1 and 2, and the sixteen (16) gravity tables, identified as Gravity Tables Lines 1 and 2, which are all part of the two (2) corn handling lines, identified as Lines 1 and 2, **the one (1) bagging unit, identified as EU100, the one (1) seed pack fill unit, identified as EU101, the one (1) manual seed pack unit, identified as EU105, the one (1) bagging machine, identified as EU12, and the one (1) small lot bagging operation, consisting of EU102 through EU104,** shall be limited to less than the throughput and emission limits specified in the following table:

Emission Units (Baghouse)	Limited Corn Throughput (tons/yr*)	PM Emission Limit (lbs PM/ton corn)
Corn Receiving 1, 2, 3, and 4	245,280, total	0.035
Huskers 1, 2, 3, and 4	245,280, total	0.061
Dry 1, 2, 3, 4, and 5 (grain)	245,280, total	0.47
Line 1: Cleaner, Sorter, Sizer (White Dust Collector #1)	61,320, total	0.062
Line 2: Cleaner, Sorter, and Sizer (White Dust Collector #2)	61,320, total	0.062
Line 1: Eight (8) Gravity Tables (Gravity Table Dust Collectors #1 through #8)	61,320, total	0.269
Line 2: Eight (8) Gravity Tables (Gravity Table Dust Collectors #9 through #16)	61,320, total	0.269
One (1) bagging unit, identified as EU100, one (1) seed pack fill unit, identified as EU101, one (1) manual seed pack unit, identified as EU105, and one (1) bagging machine, identified as EU12 (Red Dust Collector)	294,336, total	0.061
One (1) small lot bagging operation, consisting of EU102 through EU104 (CE 14)	744,600, total	0.061

*Note that "yr" represents twelve (12) consecutive month period, with compliance determined at the end of each month.

D.1.6 Particulate Matter (PM₁₀) [326 IAC 2-8-4]

The PM₁₀ emissions from the four (4) corn receiving lines, identified as corn receiving 1, 2, 3, and 4, four (4) huskers, identified as Husker 1, 2, 3, and 4, five (5) natural gas-fired bin dryers, identified as Dry 1, 2, 3, 4, and 5 (grain drying), two (2) cleaners, identified as Cleaners Lines 1 and 2, the two (2) sorters, identified as Sorters Lines 1 and 2, the two (2) sizers, identified as Sizers Lines 1 and 2, and the sixteen (16) gravity tables, identified as Gravity Tables Lines 1 and 2, which are all part of the two (2) corn handling lines, identified as Lines 1 and 2, **the one (1) bagging unit, identified as EU100, the one (1) seed pack fill unit, identified as EU101, the one (1) manual seed pack unit, identified as EU105, the one (1) bagging machine, identified as EU12, and the one (1) small lot bagging operation, consisting of EU102 through EU104**, shall be limited to less than the throughput and emission limits specified in the following table:

Emission Units (Baghouse)	Limited Corn Throughput (tons/yr*)	PM₁₀ Emission Limit (lbs PM₁₀/ton corn)
Corn Receiving 1, 2, 3, and 4	245,280, total	0.0078
Huskers 1, 2, 3, and 4	245,280, total	0.034
Dry 1, 2, 3, 4, and 5 (grain)	245,280, total	0.12
Line 1: Cleaner, Sorter, Sizer (White Dust Collector #1)	61,320, total	0.062
Line 2: Cleaner, Sorter, and Sizer (White Dust Collector #2)	61,320, total	0.062
Line 1: Eight (8) Gravity Tables (Gravity Table Dust Collectors #1 through #8)	61,320, total	0.269
Line 2: Eight (8) Gravity Tables (Gravity Table Dust Collectors #9 through #16)	61,320, total	0.269
One (1) bagging unit, identified as EU100, one (1) seed pack fill unit, identified as EU101, one (1) manual seed pack unit, identified as EU105, and one (1) bagging machine, identified as EU12 (Red Dust Collector)	294,336, total	0.034
One (1) small lot bagging operation, consisting of EU102 through EU104 (CE 14)	744,600, total	0.034

*Note that "yr" represents twelve (12) consecutive month period, with compliance determined at the end of each month.

Compliance with these limitations shall render the requirements of 326 IAC 2-7, Part 70, not applicable.

...

Change 2: Condition D.1.15 is revised to correct a typographical error.

D.1.15 Record Keeping Requirements

...

- (b) To document compliance with Conditions D.1.5 and D.1.6, the Permittee shall maintain records of the monthly corn throughput at the four (4) corn receiving lines, identified as Corn Receiving 1, 2, 3, and 4, four (4) huskers, identified as Husker 1, 2, 3, and 4, five (5) natural gas-fired bin dryers, identified as Dry 1, 2, 3, 4, and 5 (grain drying), two (2) cleaners, identified as Cleaners Lines 1 and 2, the two (2) sorters, identified as Sorters Lines 1 and 2, the two (2) sizers, identified as Sizers Lines 1 and 2, and the sixteen (16) gravity tables, identified as Gravity Tables Lines 1 and 2, all part of the two (2) Corn Handling Lines, identified as Lines 1 and 2, the one (1) bagging unit, identified as EU100, the one (1) seed pack fill unit, identified as EU101, the one (1) manual seed pack unit, identified as EU105, the one (1) bagging machine, identified as EU12, **and** the one (1) small lot bagging operation, consisting of EU102 through EU104, ~~and the two (2) receiving lines, identified as Receiving Lines #1 and #2, which consist of two (2) Huskers, identified as Huskers 1 and 2.~~

Indiana Department of Environmental Management Office of Air Quality

Technical Support Document (TSD) for a Significant Permit Revision to a Federally Enforceable State Operating Permit

Source Background and Description

Source Name:	Monsanto Company
Source Location:	15849 South U.S. Highway 231, Remington, IN 47977
County:	Jasper
SIC Code:	0723
Operation Permit No.:	F073-23632-00035
Operation Permit Issuance Date:	February 20, 2007
Significant Permit Revision No.:	073-24875-00035
Permit Reviewer:	Brian M Williams

History

Monsanto Company was issued a Federally Enforceable State Operating Permit (FESOP) No. 073-23632-00035 on February 20, 2007, for a hybrid corn seed processing plant located at 15849 South U.S. Highway 231, Remington, Indiana 47977. The Office of Air Quality (OAQ) received an application from Monsanto Company on June 4, 2007 relating to the construction of several new emission units and modification of several existing emission units at their existing plant. The source also requested updates to the facility descriptions, emission rates, capacities, and any associated permit limitations for the new and modified equipment. Finally, the source provided updated process information for Treaters #1 through #3; however, the additional information did not result in a change to the facility descriptions or the limited potential to emit for each of the treaters (i.e., each treater is still limited to less than 25 tons per year of VOC). The maximum storage capacity of the plant will not increase as a result of these changes (currently 946,000 bushels of corn per year). These changes will not cause the source's potential to emit to be greater than the Title V major threshold levels or PSD major threshold levels.

New Emission Units and Pollution Control Equipment

1. Two (2) new corn receiving lines identified as Corn Receiving #3 and Corn Receiving #4, consisting of two (2) new huskers, identified as Husker 3 and Husker 4, which each consist of six (6) husking beds, exhausting to general ventilation, capacity: 1,500 bushels (84,000 pounds) of ear corn per hour for each line and each husker.
2. Two (2) new husker beds installed into existing husker lines identified as Husker 1 and Husker 2. Husker 1 and Husker 2 will each consist of six (6) husking beds, exhausting to general ventilation, increased capacity: 1,500 bushels (84,000 pounds) of ear corn per hour for each husker.
3. Two (2) new natural gas-fired bin dryers identified as Dry 4 and Dry 5, exhausting to Stack Dry 4 and Stack Dry 5 with a drying rate of 500 bushels (28,000 pounds) per hour and a heat input capacity of 160 million British thermal units per hour, each equipped with eighteen (18) storage bins, identified as Dry 4 and Dry 5 Bins, used for drying with a capacity of 2,000 bushels (112,000 pounds), each.
4. One (1) new corn sheller, identified as Sheller #2 exhausting to a baghouse for particulate control, identified as CE15, capacity: 2,500 bushels (140,000 pounds) of corn per hour.
5. Seventy-two (72) new bulk storage bins, identified as B-73 through B-144, exhausting to a

baghouse for particulate control, identified as CE 34, throughput: 2,000 bushels (112,000 pounds) of shelled corn per hour. Storage bins B-73 through B-108 have a capacity of 7,500 bushels (420,000 pounds), each, and storage bins B-109 through B-144 have a capacity of 5,000 bushels (280,000 pounds), each.

Existing Approvals

The source has been operating under previous approvals including, but not limited to, the following:

- (a) FESOP No. F073-23632-00035, issued February 20, 2007.

Enforcement Issue

There are no enforcement actions pending.

Recommendation

The staff recommends to the Commissioner that significant permit revision be approved. This recommendation is based on the following facts and conditions:

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

An application for the purposes of this review was received on June 4, 2007. Additional information was received on July 10, 2007.

Emission Calculations

See pages 1 through 15 of Appendix A of this document for detailed emissions calculations

Potential to Emit of New Emission Units

Pursuant to 326 IAC 2-1.1-1(16), Potential to Emit is defined as "the maximum capacity of a stationary source 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." This table reflects the unlimited potential to emit (PTE) of the new emission units.

Pollutant	Potential to Emit (tons/year)
PM	104.24
PM-10	44.78
SO ₂	0.841
VOC	7.71
CO	118
NO _x	266

Note: For the purpose of determining Title V applicability for particulates, PM-10, not PM, is the regulated pollutant in consideration.

HAPs	Potential to Emit (tons/yr)
Lead	0.007
Benzene	0.003
Dichlorobenzene	0.002

HAPs	Potential to Emit (tons/yr)
Formaldehyde	0.105
Hexane	2.523
Toluene	0.005
Cadmium	0.002
Chromium	0.002
Maganese	0.0005
Nickel	0.003
Total	2.65

The potential to emit (as defined in 326 IAC 2-1.1-1(16)) of CO and NO_x are equal to or greater than 100 tons per year. Therefore, the source is subject to the provisions of 326 IAC 2-7. The source will limit emissions in order to remain a FESOP.

Justification for Revision

The FESOP is being modified through a Significant Permit Revision. This revision is being performed pursuant to 326 IAC 2-8-11.1(f)(1)(E) and (H) because the potential to emit of the modification is greater than 25 tons per year for PM-10, NO_x, and CO. This revision is also being performed pursuant to 326 IAC 2-8-11(g)(2) because this modification requires an adjustment to the emission cap limitations.

County Attainment Status

The source is located in Jasper County.

Pollutant	Status
PM10	Attainment or Unclassifiable
PM2.5	Attainment or Unclassifiable
SO ₂	Attainment
NO ₂	Attainment or Unclassifiable
8-Hour Ozone	Attainment or Unclassifiable
CO	Attainment or Unclassifiable
Lead	Attainment or Unclassifiable

- (a) 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 the ozone standard. Jasper County has been designated as attainment or unclassifiable for ozone. Therefore, VOC emissions and NO_x were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2. See the State Rule Applicability for the source section.
- (b) Jasper County has been classified as unclassifiable or attainment for PM2.5. U. S. EPA has not yet established the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2 for PM 2.5 emissions. Therefore, until the U.S.EPA adopts specific provisions for PSD review for PM2.5 emissions, it has directed states to regulate PM10 emissions as surrogate for PM2.5 emissions. See the State Rule Applicability – Entire Source section.
- (c) Jasper County has been classified as attainment or unclassifiable 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. See the State Rule

Applicability for the source section.

- (d) On August 7, 2006, a temporary emergency rule took effect redesignating Delaware, Greene, Jackson, Vanderburgh, Vigo and Warrick Counties to attainment for the eight-hour ozone standard, redesignating Lake County to attainment for the sulfur dioxide standard, and revoking the one-hour ozone standard in Indiana. The Indiana Air Pollution Control Board has approved a permanent rule revision to incorporate these changes into 326 IAC 1-4-1. The permanent revision to 326 IAC 1-4-1 will take effect prior to the expiration of the emergency rule.
- (e) **Fugitive Emissions**
 Since this type of operation is not one of the 28 listed source categories under 326 IAC 2-2 or 2-3 and since there are no applicable New Source Performance Standards that were in effect on August 7, 1980, the fugitive particulate matter (PM) and volatile organic compound (VOC) emissions are not counted toward determination of PSD and Emission Offset applicability.

Potential to Emit of Source After Issuance

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

Significant Emission Units	PM	PM-10	SO2	NOx	VOC	CO	Total HAPs
	(tons/yr)						
Corn Receiving 1, 2, 3, 4	4.29	0.96	0.00	0.00	0.00	0.00	0.00
Huskers 1, 2, 3, 4	7.48	4.17	0.00	0.00	0.00	0.00	0.00
Two natural gas-fired grain dryers, identified as Dry 1 and Dry 2	0.25	1.02	0.08	13.39	0.74	11.25	0.25
Three (3) natural gas-fired grain dryers, identified as Dry 3, Dry 4, and Dry 5	0.82	3.26	0.26	81.60	2.36	36.07	0.81
Rack Dryer (Grain Drying) identified as Dry 1, Dry 2, Dry 3, Dry 4, and Dry 5	57.64	14.72	0.00	0.00	0.00	0.00	0.00
Corn Shellers identified as Sheller 1 and Sheller 2	2.49	2.49	0.00	0.00	0.00	0.00	0.00
Bulk storage bins, identified as B-1 through B-17 and B-21 through B-72	3.06	0.77	0.00	0.00	0.00	0.00	0.00
Bulk storage bins, identified as B-73 through B-144	6.13	1.54	0.00	0.00	0.00	0.00	0.00
One (1) bagging unit, identified as EU100, one (1) seed pack fill unit, identified as EU101, one (1) manual seed pack unit, identified as EU105, and one (1) bagging machine, identified as EU12	8.98	5.00	0.00	0.00	0.00	0.00	0.00
One rebagging unit, identified as 13	15.34	8.55	0.00	0.00	0.00	0.00	0.00
One small lot bagging operation, consisting of EU102 through EU104	22.70	12.70	0.00	0.00	0.00	0.00	0.00

One (1) debugger, identified as EU34	7.48	4.17	0.00	0.00	0.00	0.00	0.00
Two corn handling lines, identified as Line 1 and Line 2, consisting of:							
Two (2) cleaners, identified as Cleaners Line 1 and 2	3.80	3.80	0.00	0.00	0.00	0.00	0.00
Two (2) sorters, identified as Sorters Line 1 and 2			0.00	0.00	0.00	0.00	0.00
Two (2) sizers, identified as Sizers Line 1 and 2			0.00	0.00	0.00	0.00	0.00
Sixteen (16) gravity tables, identified as Gravity Tables Lines 1 and 2	16.50	16.50	0.00	0.00	0.00	0.00	0.00
Twenty-Four (24) storage bins, identified as Storage Bins Lines 1 and 2	3.06	0.77	0.00	0.00	0.00	0.00	0.00
Three (3) Aspirators, identified as Aspirators #1 through #3	7.48	4.17	0.00	0.00	0.00	0.00	0.00
Three (3) treaters, identified as Treaters #1 through #3	11.22	6.25	0.00	0.00	75.00	0.00	0.62
Twelve (12) storage bins, identified as Treating and Packing Storage Bins 1 through 12	3.06	0.77	0.00	0.00	0.00	0.00	0.00
Total	181.8	91.62	0.34	94.99	less than 78.10	47.32	1.68

- (a) VOC usage from the three (3) treaters, identified as Treaters #1 through #3, are limited to less than twenty-five (25.0) tons per twelve consecutive month period, each, with compliance determined at the end of each month. Compliance with these limitations will render the requirements of 326 IAC 8-1-6, not applicable.
- (b) PM and PM₁₀ emissions from the four (4) corn receiving lines, identified as Corn Receiving 1, 2, 3, and 4, four (4) huskers, identified as Husker 1, 2, 3, and 4, five (5) natural gas-fired bin dryers, identified as Dry 1, 2, 3, 4, and 5 (grain drying), two (2) cleaners, identified as Cleaners Lines 1 and 2, the two (2) sorters, identified as Sorters Lines 1 and 2, the two (2) sizers, identified as Sizers Lines 1 and 2, the sixteen (16) gravity tables, identified as Gravity Tables Lines 1 and 2, the one (1) bagging unit, identified as EU100, one (1) seed pack fill unit, identified as EU101, one (1) manual seed pack unit, identified as EU105, and one (1) bagging machine, identified as EU12, and the one (1) small lot bagging operation, consisting of EU102 through EU104, are limited as described under 326 IAC 2-2, PSD, and 326 IAC 2-8-4, FESOP, in the "State Rule Applicability – Entire Source Section of this document."

Federal Rule Applicability

The source shall continue to comply with all other applicable federal rule requirements and permit conditions as contained in FESOP No. 073-23632-00035.

- (a) This source is not a grain terminal elevator because it has a permanent storage capacity of less than 2,500,000 bushels and is not a animal food manufacturer, pet food manufacturer, cereal manufacturer, brewery, or a livestock feedlot. In addition, this source is not a grain storage elevator because it is not a wheat flour mill, a wet corn mill, a dry corn mill, nor a soybean oil extraction plant, and has a storage capacity that is less than one million (1,000,000) bushels. Therefore, the New Source Performance Standard, 40 CFR 60, Subpart DD, Standards of Performance for Grain Elevators, is not included in the permit.

- (b) There are no other New Source Performance Standards included in the permit for this source.
- (c) This source is an area source for HAPs. Therefore, the requirements of the National Emission Standard for Hazardous Air Pollutants, 40 CFR 63, Subpart DDDDD, National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers and Process Heaters, are not included in the permit.
- (d) There are no other National Emission Standards for Hazardous Air Pollutants included in the permit for the source.

State Rule Applicability – Entire Source

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

- (a) Since this type of operation is not one of the twenty-eight (28) listed source categories under 326 IAC 2-2 and since there are no applicable New Source Performance Standards that were in effect on August 7, 1980, the fugitive particulate matter (PM) and volatile organic compound (VOC) emissions are not counted toward determination of PSD and Emission Offset applicability.
- (b) The unrestricted PM emissions from the source are greater than two-hundred fifty (250) tons per year. However, the source will limit PM emissions to less than two-hundred fifty (250) tons per year, as described in the following table:

Emission Units (Baghouse)	Limited Corn Throughput (tons/yr*)	PM Emission Limit (lbs PM/ton corn)	Limited PM Emissions (tons/yr)
Corn Receiving 1, 2, 3, and 4	245,280, total	0.035	4.29
Huskers 1, 2, 3, and 4	245,280, total	0.061	7.48
Dry 1, 2, 3, 4, and 5	245,280, total	0.47	57.64
Line 1: Cleaner, Sorter, Sizer (White Dust Collector #1)	61,320, total	0.062	3.8
Line 2: Cleaner, Sorter, and Sizer (White Dust Collector #2)	61,320, total	0.062	3.8
Line 1: Eight (8) Gravity Tables (Gravity Table Dust Collectors #1 through #8)	61,320, total	0.269	1.03, each 8.25, total
Line 2: Eight (8) Gravity Tables (Gravity Table Dust Collectors #9 through #16)	61,320, total	0.269	1.03, each 8.25, total
One (1) bagging unit, identified as EU100, one (1) seed pack fill unit, identified as EU101, one (1) manual seed pack unit, identified as EU105, and one (1) bagging machine, identified as EU12 (Red Dust Collector)	294,336, total	0.061	8.98
One (1) small lot bagging operation, consisting of EU102 through EU104 (CE 14)	744,600, total	0.061	22.7

* Note that "yr" represents twelve (12) consecutive month period.

Compliance with these limitations shall limit the PM emissions from the four (4) corn receiving lines, identified as Corn Receiving 1, 2, 3, and 4, four (4) huskers, identified as Husker 1, 2, 3, and 4, five (5) natural gas-fired bin dryers, identified as Dry 1, 2, 3, 4, and 5 (grain drying), two (2) cleaners, identified as Cleaners Lines 1 and 2, the two (2) sorters, identified as Sorters Lines 1 and 2, the two (2) sizers, identified as Sizers Lines 1 and 2, and the sixteen (16) gravity tables, identified as Gravity Tables Lines 1 and 2, the one (1) bagging unit, identified as EU100, the one (1) seed pack fill unit, identified as EU101, the one (1) manual seed pack unit, identified as EU105, the one (1) bagging machine, identified as EU12, and the one (1) small lot bagging operation, consisting of EU102 through EU104 to a total of 125.19 tons per year and less than two-hundred fifty (250) tons per year from the entire source (See page 13 of Appendix A of this document).

The baghouses for particulate control shall be in operation and control emissions from the two (2) cleaners, the two (2) sorters, the two (2) sizers, and the sixteen (16) gravity tables, at all times when these emission units are in operation.

- (c) The unrestricted potential to emit and thus the potential to emit PM₁₀, VOC, NO_x, CO, and SO₂ are less than two-hundred fifty (250) tons per year. Therefore, this source, which is not one of the twenty-eight (28) listed source categories, is a minor source, pursuant to 326 IAC 2-2, PSD.

326 IAC 2-4.1-1 (New source toxics control)

The unrestricted potential to emit of a single HAP is less than ten (10.0) tons per year and is less than twenty-five (25.0) tons per year for a total of all HAPs. Therefore, the requirements of 326 IAC 2-4.1-1 are not applicable.

326 IAC 2-6 (Emission Reporting)

This source is not located in Lake or Porter County, does not emit five (5) tons per year or more of lead and does not require a Part 70 Operating Permit. Therefore, the requirements of 326 IAC 2-6 do not apply.

326 IAC 2-8-4, FESOP

The source-wide emissions of PM₁₀, NO_x, and CO shall be limited to less than one-hundred (100) tons per year. Compliance with the following limitations will allow the source to comply with the requirements of 326 IAC 2-8-4, FESOP:

- (a) The five (5) natural gas-fired bin dryers, identified as Dry 1 and Dry 2, Dry 3, Dry 4, and Dry 5, shall have their NO_x and CO emissions limited as described in the following table:

Emission Unit	Limited natural gas usage (mmCF/yr)	NO _x limit (lbs NO _x /mmCF)	CO limit (lbs CO/mmCF)	Limited NO _x emissions (tons/yr)	Limited CO emissions (tons/yr)
Dry 1 and Dry 2	268	100	84	13.4	11.2
Dry 3, Dry 4, and Dry 5	858.9	190	84	81.6	36.1

As described above, the natural gas usage from the two (2) natural gas-fired bin dryers, identified as Dry 1 and Dry 2, shall be limited to 268 million cubic feet of gas per twelve (12) consecutive month period, with compliance determined at the end of each month.

The natural gas usage from the three (3) natural gas-fired bin dryers, identified as Dry 3, Dry 4, and Dry 5 shall be limited to 858.9 million cubic feet of gas per twelve (12) consecutive month period, with compliance determined at the end of each month. Compliance with these limitations will limit the NO_x and CO emissions from the two (2) natural gas-fired bin dryers, identified as Dry 1 and Dry 2, and the three (3) natural gas-fired bin dryer, identified as Dry 3, Dry 4, and Dry 5 to the values in the table above and less than one-hundred (100) tons per year for the entire source (See pages 4 through 9 and page 15 of Appendix A of this document for detailed emissions calculations).

- (b) The four (4) corn receiving lines, identified as corn receiving 1, 2, 3, and 4, four (4) huskers, identified as Husker 1, 2, 3, and 4, five (5) natural gas-fired bin dryers, identified as Dry 1, 2, 3, 4, and 5 (grain drying), the two (2) cleaners, identified as Cleaners Lines 1 and 2, the two (2) sorters, identified as Sorters Lines 1 and 2, the two (2) sizers, identified as Sizers Lines 1 and 2, and the sixteen (16) gravity tables, identified as Gravity Tables Lines 1 and 2, which are all part of the two (2) corn handling lines, identified as Lines 1 and 2, the one (1) bagging unit, identified as EU100, one (1) seed pack fill unit, identified as EU101, one (1) manual seed pack unit, identified as EU105, and one (1) bagging machine, identified as EU12, and the one (1) small lot bagging operation, identified as EU102 through EU104, shall have their PM₁₀ emissions limited as described in the following table:

Emission Units (Baghouse)	Limited Corn Throughput (tons/yr*)	PM₁₀ Emission Limit (lbs PM₁₀/ton corn)	Limited PM₁₀ Emissions (tons/yr)
Corn Receiving 1, 2, 3, and 4	245,280, total	0.0078	0.9566
Huskers 1, 2, 3, and 4	245,280, total	0.034	4.17
Dry 1, 2, 3, 4, and 5 (grain)	245,280, total	0.12	14.72
Line 1: Cleaner, Sorter, Sizer (White Dust Collector #1)	61,320, total	0.062	3.8
Line 2: Cleaner, Sorter, and Sizer (White Dust Collector #2)	61,320, total	0.062	3.8
Line 1: Eight (8) Gravity Tables (Gravity Table Dust Collectors #1 through #8)	61,320, total	0.269	1.03, each 8.25, total
Line 2: Eight (8) Gravity Tables (Gravity Table Dust Collectors #9 through #16)	61,320, total	0.269	1.03, each 8.25, total
One (1) bagging unit, identified as EU100, one (1) seed pack fill unit, identified as EU101, one (1) manual seed pack unit, identified as EU105, and one (1) bagging machine, identified as EU12 (Red Dust Collector)	294,336, total	0.034	5.00
One (1) small lot bagging operation, consisting of EU102 through EU104 (CE 14)	744,600, total	0.034	12.7

* Note that "yr" represents twelve (12) consecutive month period.

Compliance with these limitations will limit the PM₁₀ emissions from the four (4) corn receiving lines, identified as corn receiving 1, 2, 3, and 4, four (4) huskers, identified as Husker 1, 2, 3, and 4, five (5) natural gas-fired bin dryers, identified as Dry 1, 2, 3, 4, and

5 (grain drying), two (2) cleaners, identified as Cleaners Lines 1 and 2, the two (2) sorters, identified as Sorters Lines 1 and 2, the two (2) sizers, identified as Sizers Lines 1 and 2, the sixteen (16) gravity tables, identified as Gravity Tables Lines 1 and 2, the one (1) bagging unit, identified as EU100, the one (1) seed pack fill unit, identified as EU101, the one (1) manual seed pack unit, identified as EU105, and the one (1) bagging machine, identified as EU12, and the one (1) small lot bagging operation, consisting of EU102 through EU104, to 61.64 tons per year and less than one-hundred (100) tons per year from the entire source.

The baghouses for particulate control shall be in operation and control emissions from the two (2) cleaners, the two (2) sorters, the two (2) sizers, and the sixteen (16) gravity tables, at all times when these emission units are in operation.

326 IAC 5-1 (Opacity Limitations)

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

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

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.

State Rule Applicability – Individual Facilities

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

Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), the particulate emission rate from the following emission units and control devices shall not exceed the pounds per hour limitation when operating at the stated process weight rates calculated using the following equations:

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

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

or

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

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

Emission Unit (baghouse)	Process weight rate (tons per hour)	Allowable particulate emission rate (pounds per hour)	Unrestricted potential emissions (pounds per hour)	How will unit comply with 326 IAC 6-3-2?
Corn Receiving 1, 2, 3, and 4 (none)	28.0	38.2	0.980	Unrestricted emissions are less than allowable.
Huskers 1, 2, 3, and 4, part of Corn Receiving 1, 2, 3, and 4 (none)	28.0	38.2	1.71	Unrestricted emissions are less than allowable.
Five (5) natural gas-fired bin dryers, identified as Dry 1 (Stack Dry 1), Dry 2 (Stack Dry 2), Dry 3 (Stack Dry 3), Dry 4 (Stack Dry 4), and Dry 5 (Stack Dry 5)	28.0	38.2	13.15	Unrestricted emissions are less than allowable.
One (1) debagger, identified as EU34 (Baghouse Red Dust Collector)	28.0	38.2	1.71	Unrestricted emissions are less than allowable.
One (1) Corn Sheller, identified as Sheller 1 (Baghouse CE 15)	70.0	47.8	0.570	Unrestricted emissions are less than allowable.
One (1) Corn Sheller, identified as Sheller 2 (Baghouse CE 15)	70.0	47.8	0.570	Unrestricted emissions are less than allowable.
One (1) rebagging unit, identified as #13 (Baghouse Red Dust Collector)	57.4	45.9	3.49	Unrestricted emissions are less than allowable.
One small lot bagging operation, consisting of EU102 through EU104 (Baghouse CE 14)	85.0	49.66	5.18	Unrestricted emissions are less than allowable.
Treating/Packing Machinery, consisting of the following emission units:				
Aspirators #1 through #3 (Baghouse Red Dust Collector)	28.0	38.2	1.71	Unrestricted emissions are less than allowable.
Treaters #1 through #3 (Baghouse Red Dust Collector)	42.0	42.96	2.56	Unrestricted emissions are less than allowable.

Emission Unit (baghouse)	Process weight rate (tons per hour)	Allowable particulate emission rate (pounds per hour)	Unrestricted potential emissions (pounds per hour)	How will unit comply with 326 IAC 6-3-2?
One (1) bagging unit, identified as EU100, one (1) seed pack fill unit, identified as EU101, one (1) manual seed pack unit, identified as EU105, and one (1) bagging machine, identified as EU12 (Baghouse Red Dust Collector)	33.6	40.96	2.05	Unrestricted emissions are less than allowable.
Twelve (12) Storage Bins, identified as Treating and Packing Storage Bins 1 through 12	28.0	38.2	0.70	Unrestricted emissions are less than allowable.
Two (2) Corn Handling Lines, identified as Lines 1 and 2, consisting of the following:				
Sixty-Nine (69) Bulk Storage Bins, identified as B-1 through B-17 and B-21 through B-72	28.0	38.2	0.70	Unrestricted emissions are less than allowable.
Seventy-Two (72) Bulk Storage Bins, identified as B-73 through B-144	56.0	45.64	1.4	Unrestricted emissions are less than allowable.
Cleaners, Lines 1 and 2 (White Dust Collector #1 and #2)	28.0	38.2	10.5	Unrestricted emissions are less than allowable.
Eight (8) Gravity Tables, Line 1 (Gravity Table Dust Collectors #1 through #8)	1.75, each	5.97, each	0.660, each	Unrestricted emissions are less than allowable for each table.
Eight (8) Gravity Tables, Line 2 (Gravity Table Dust Collectors #9 through #16)	1.75, each	5.97, each	0.660, each	Unrestricted emissions are less than allowable for each table.
Sorters, Lines 1 and 2 (White Dust Collector #1 and #2)	28.0	38.2	10.5	Unrestricted emissions are less than allowable.

Emission Unit (baghouse)	Process weight rate (tons per hour)	Allowable particulate emission rate (pounds per hour)	Unrestricted potential emissions (pounds per hour)	How will unit comply with 326 IAC 6-3-2?
Sizers, Lines 1 and 2 (White Dust Collector #1 and #2)	28.0	38.2	1.71	Unrestricted emissions are less than allowable.

Therefore, the particulate rate calculated for each emission unit shows that each emission unit can comply with the calculated allowable particulate emission rate pursuant to 326 IAC 6-3-2 as shown in the above table.

In addition, several of the emission units exhaust through the same baghouse or stack. The allowable particulate pursuant to 326 IAC 6-3-2 has been tabulated by stack/exhaust and baghouse as follows:

Stack # or Exhaust	Emission Unit	Process Weight (tons per hour)	PM Emission Rate (pounds per hour)
Red Dust Collector	EU 34	Subtotal of 28.0	38.2
	EU 100 EU 101 EU 105 EU12	Subtotal of 33.6	40.96
	Aspirators #1 - #3	Subtotal of 28.0	38.2
	Treaters #1- #3	Subtotal of 42.0	42.96
			Total: 160.32
Baghouse CE14	EU102 EU103 EU104	85	49.66
Baghouse CE15	Sheller 1 Sheller 2	140	54.72
White Dust Collector #1	Sorter, Line 1	14.0	24.0
	Cleaner, Line 1	14.0	24.0
	Sizer, Line 1	14.0	24.0
			Total: 72.0
White Dust Collector #2	Sorter, Line 2	14.0	24.0
	Cleaner, Line 2	14.0	24.0
	Sizer, Line 2	14.0	24.0
			Total: 72.0

326 IAC 8-1-6 (New facilities; general reduction requirements)

The potential to emit VOC from all facilities except the three (3) treaters, identified as Treaters 1 through 3, are less than twenty-five (25.0) tons per year. The VOC usage from the three (3) treaters, identified as Treaters 1 through 3, shall be limited to less than twenty-five (25.0) tons of VOC per year, each, when coating seeds. Therefore, the requirements of 326 IAC 8-1-6 are not applicable.

Testing Requirements

The existing testing requirements will not change as a result of this revision. The source shall continue to comply with the applicable requirements and permit conditions as contained in FESOP No. 073-23632-00035.

Compliance Requirements

The existing compliance requirements will not change as a result of this revision. The source shall continue to comply with the applicable requirements and permit conditions as contained in FESOP No. 073-23632-00035.

Proposed Changes to the FESOP Due to This Revision:

The following changes made to Section A.2 and D.1 are described below:

- (1) (a) The Corn Receiving #1 and Corn Receiving #2 description is revised based on the construction of two (2) new husker beds into the existing husker lines. The capacity of the two (2) receiving lines is revised to 1,500 bushels (84,000 pounds) of ear corn per hour for each line and each husker due to the modification.
- (2) (b) The two (2) natural gas-fired bin dryers, identified as Dry 2A and Dry 2B are redesignated as Dry 1 and Dry 2.
- (3) (e) The descriptive information for the one (1) "rebagging unit" is revised to "Rebagging Aspirator".
- (4) The bulk storage bin descriptions in (g) and (k)(1) have been combined together into (g). As a result, the numbering of (k) (2 through 6) have been revised based on the deletion of (k)(1).
- (5) (j) The one (1) corn sheller, identified as Sheller is redesignated as Sheller #1 and the capacity is revised to 2,500 bushels (140,000 pounds) of corn per hour.
- (6) (l)(4) is removed to reflect that one (1) debagger, identified as EU106 was never installed.
- (7) (m through p) contain descriptive information for two (2) new corn receiving lines, two (2) new huskers, two (2) new natural gas-fired grain dryers each with eighteen (18) storage bins, one (1) new corn sheller, and seventy-two (72) new storage bins.

Any other changes made to permit are described below:

- (8) A new Condition C.13 (Instrument Specifications) has been added pursuant to 326 IAC 2-1.1-11, 326 IAC 2-8-4(3), and 326 IAC 2-8-5(1).
- (9) A new Condition C.15 (Response to Excursions and Exceedances) has been added pursuant to 326 IAC 2-8-4 and 326 IAC 2-8-5.
- (10) The table in Section D.1.4 is revised to update the particulate emission rates and limitations for the new, modified, and existing emission units and control devices.
- (11) Section D.1.5 is revised to update the particulate emission limits and limited corn throughput for the specific emission units found in Section D.1.5.
- (12) Section D.1.6 is revised to update the PM₁₀ emission limits and limited corn throughputs for the specific emission units found in Section D.1.6.
- (13) Section D.1.7 is revised to update the redesignation of Dry 2A and Dry 2B, the addition of

two (2) natural gas-fired bin dryers, and update the NO_x, CO, and natural gas usage limitations for Dry 3, Dry 4, and Dry 5.

- (14) Section D.1.15 (a) and (b) are revised to include the new emission units.
- (15) Original Conditions D.1.15(d) and (e) (Record Keeping Requirements for Visible Emission Notations and Parametric Monitoring) are revised to clarify that the Permittee needs to make a record of some sort every day. The intent of Record Keeping Requirements for Visible Emission Notations and Parametric Monitoring is that the Permittee needs to make a record of some sort every day. An example for Visible Emission Notations would be "normal" or "abnormal". Additionally, if Visible Emission Notations were not done on a particular day, the Permittee needs to specify the reason why the observation was not done. An example of this record would be "the unit was not operating" or "the unit was venting indoors".
- (16) The FESOP Quarterly Reports are revised to include the descriptive information of any new or modified emission units and any associated permit limitations.

The permit is revised as follows with deleted language as ~~strikeouts~~ and new language **bolded**:

...
A.2 Emission Units and Pollution Control Equipment Summary [326 IAC 2-8-3(c)(3)]

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

- (a) Two (2) receiving lines, identified as Corn Receiving #1 and Corn Receiving #2, consisting of two (2) huskers, identified as Husker 1 and Husker 2, which each consist of **six (6) five (5)** husking beds, installed in 1976, and modified in 1995 and 2007, exhausting to general ventilation, capacity: **1,500 bushels (84,000 pounds) 4,000 bushels (56,000 pounds)** of ear corn per hour for each line and each husker.
- (b) Two (2) natural gas-fired bin dryers, identified as **Dry 1 2A** and **Dry 2 2B**, exhausting to Stacks Dry **1 2A** and Dry **2 2B**, installed in 1976, heat input capacity: sixty (60) million British thermal units per hour, each, and a dry rate of 20,238 bushels per batch {500 bushels (28,000 pounds) per hour, each}.
- ...
- (e) One (1) **Rebagging Aspirator** ~~rebagging unit~~, identified as #13, installed in 1992 and modified in 2005, with a capacity of 114,800 pounds per hour, equipped with a baghouse for particulate control, identified as Red Dust Collector, capacity: 114,800 pounds of seed corn per hour.
- ...
- (g) **Sixty-nine (69) Thirty-seven (37)** bulk storage bins, identified as B-1 through B-17, ~~and B-21 through B-40,~~ **and B-41 through B-72**, installed in 1999 **and 2007**, throughput: 1,000 bushels (56,000 pounds) of shelled corn per hour. Storage bins B-1 through B-4 have a capacity of 11,000 bushels (770,000 pounds) each; storage bins B-5 through B-8 have a capacity of 15,000 bushels (1,050,000 pounds) each; storage bins B-9 through B-12 have a capacity of 11,000 bushels (770,000 pounds) each; storage bins B-13 through B-17 have a capacity of 4,600 bushels (322,000 pounds) each; storage bins B-21 through B-30 have a capacity of 5,000 bushels (350,000 pounds) each; and storage bins B-31 through B-40 have a capacity of 7,500 bushels (525,000 pounds) each; **storage bins B-41 through B-56 have a capacity of 7,500 bushels (420,000 pounds), each, and storage bins B-57 through B-72 have a capacity of 5,000 bushels (280,000 pounds), each.**
- ...
- (j) One (1) corn sheller, identified as Sheller #1, approved for construction in 2007, exhausting to a baghouse for particulate control, identified as CE 15, capacity: **2,500 bushels (140,000 pounds) 2,000 bushels (112,000 pounds)** of corn per hour.
- (k) Two (2) corn handling lines, identified as Line 1 and Line 2, consisting of the following:

- ~~(1)~~ Thirty two (32) bulk storage bins, identified as B-41 through B-72, approved for construction in 2007, exhausting to a baghouse for particulate control, identified as CE 34, throughput: 1,000 bushels (56,000 pounds) of shelled corn per hour. Storage bins B-41 through B-56 have a capacity of 7,500 bushels (420,000 pounds), each, and storage bins B-57 through B-72 have a capacity of 5,000 bushels (280,000 pounds), each.
- ~~(1)~~(2) Two (2) cleaners, identified as Cleaner Line 1 and Cleaner Line 2, approved for construction in 2007, exhausting to two (2) baghouses for particulate control, identified as White Dust Collector #1 and White Dust Collector #2, capacity: 500 bushels (28,000 pounds) of shelled corn per hour, each.
- ~~(2)~~(3) Two (2) sorters, identified as Sorter Line 1 and Sorter Line 2, approved for construction in 2007, exhausting to two (2) baghouses for particulate control, identified as White Dust Collector #1 and White Dust Collector #2, capacity: 500 bushels (28,000 pounds) of shelled corn per hour, each.
- ~~(3)~~(4) Two (2) sizers, identified as Sizer Line 1 and Sizer Line 2, approved for construction in 2007, exhausting to two (2) baghouses for particulate control, identified as White Dust Collector #1 and White Dust Collector #2, capacity: 500 bushels (28,000 pounds) of shelled corn per hour, each.
- ~~(4)~~(5) Sixteen (16) gravity tables, identified as Gravity Tables Line 1 and Gravity Tables Line 2, approved for construction in 2007, equipped with sixteen (16) dust collectors for particulate control, identified as Gravity Table Dust Collectors #1 through #16, capacity: 1,000 bushels (56,000 pounds) of shelled corn per hour, total.
- ~~(5)~~(6) Twenty-four (24) storage bins, identified as Storage Bins Lines 1 and Storage Bins Line 2, approved for construction in 2007, throughput capacity: 1,000 bushels (56,000 pounds) of shelled corn per hour, total.
- (l) New treating/packing machinery, consisting of the following:
 - ...
 - ~~(4)~~ One (1) debugger, identified as EU106, exhausting to a baghouse, identified as CE14, approved for construction in 2007, capacity: 1,000 bushels (56,000 pounds) of shelled corn per hour.
- (m) Two (2) new corn receiving lines identified as Corn Receiving #3 and Corn Receiving #4, consisting of two (2) new huskers, identified as Husker 3 and Husker 4, which each consist of six (6) husking beds, approved for construction in 2007, exhausting to general ventilation, capacity: 1,500 bushels (84,000 pounds) of ear corn per hour for each line and each husker.**
- (n) Two (2) new natural gas-fired bin dryers identified as Dry 4 and Dry 5, approved for construction in 2007, exhausting to Stack Dry 4 and Stack Dry 5, with a drying rate of 500 bushels (28,000 pounds) per hour and a heat input capacity of 160 million British thermal units per hour, each equipped with eighteen (18) storage bins, identified as Dry 4 and Dry 5 Bins, used for drying with a capacity of 2,000 bushels (112,000 pounds), each.**
- (o) One (1) new corn sheller, identified as Sheller #2, approved for construction in 2007, exhausting to a baghouse for particulate control, identified as CE15, capacity: 2,500 bushels (140,000 pounds) of corn per hour.**
- (p) Seventy-two (72) new bulk storage bins, identified as B-73 through B-144, approved for construction in 2007, throughput: 2,000 bushels (112,000 pounds) of shelled corn per hour. Storage bins B-73 through B-108 have a capacity of 7,500 bushels**

(420,000 pounds), each, and storage bins B-109 through B-144 have a capacity of 5,000 bushels (280,000 pounds), each.

Calculations indicate that the **four (4) ~~three (3)~~** baghouses, identified as the Red Dust Collector, **CE14**, CE 15, and CE 34, do not have to be operated in order for the associated emission units to comply with applicable rules.

...

C.13 Instrument Specifications [326 IAC 2-1.1-11] [326 IAC 2-8-4(3)][326 IAC 2-8-5(1)]

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

...

C.15 Response to Excursions or Exceedances [326 IAC 2-8-4] [326 IAC 2-8-5]

- (a) Upon detecting an excursion or exceedance, the Permittee shall restore operation of the emissions unit (including any control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions.**
- (b) The response shall include minimizing the period of any startup, shutdown or malfunction and taking any necessary corrective actions to restore normal operation and prevent the likely recurrence of the cause of an excursion or exceedance (other than those caused by excused startup or shutdown conditions). Corrective actions may include, but are not limited to, the following:**
 - (1) initial inspection and evaluation;**
 - (2) recording that operations returned to normal without operator action (such as through response by a computerized distribution control system); or**
 - (3) any necessary follow-up actions to return operation to within the indicator range, designated condition, or below the applicable emission limitation or standard, as applicable.**
- (c) A determination of whether the Permittee has used acceptable procedures in response to an excursion or exceedance will be based on information available, which may include, but is not limited to, the following:**
 - (1) monitoring results;**
 - (2) review of operation and maintenance procedures and records;**
 - (3) inspection of the control device, associated capture system, and the process.**
- (d) Failure to take reasonable response steps shall be considered a deviation from the permit.**
- (e) The Permittee shall maintain the following records:**
 - (1) monitoring data;**

- (2) monitor performance data, if applicable; and
- (3) corrective actions taken.

...
SECTION D.1 FACILITY OPERATION CONDITIONS

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

- (a) Two (2) receiving lines, identified as Corn Receiving #1 and Corn Receiving #2, consisting of two (2) huskers, identified as Husker 1 and Husker 2, which each consist of ~~six (6) five (5)~~ husking beds, installed in 1976, and modified in 1995 and 2007, exhausting to general ventilation, capacity: **1,500 bushels (84,000 pounds)** ~~4,000 bushels (56,000 pounds)~~ of ear corn per hour for each line and each husker.
- (b) Two (2) natural gas-fired bin dryers, identified as **Dry 1 2A** and **Dry 2 2B**, exhausting to Stacks Dry 1 2A and Dry 2 2B, installed in 1976, heat input capacity: sixty (60) million British thermal units per hour, each, and a dry rate of 20,238 bushels per batch {500 bushels (28,000 pounds) per hour, each}.
- ...
(e) One (1) **Rebagging Aspirator** ~~rebagging unit~~, identified as #13, installed in 1992 and modified in 2005, with a capacity of 114,800 pounds per hour, equipped with a baghouse for particulate control, identified as Red Dust Collector, capacity: 114,800 pounds of seed corn per hour.
- ...
(g) **Sixty-nine (69)** ~~Thirty-seven (37)~~ bulk storage bins, identified as B-1 through B-17, ~~and B-21 through B-40,~~ **and B-41 through B-72**, installed in 1999 **and 2007**, throughput: 1,000 bushels (56,000 pounds) of shelled corn per hour. Storage bins B-1 through B-4 have a capacity of 11,000 bushels (770,000 pounds) each; storage bins B-5 through B-8 have a capacity of 15,000 bushels (1,050,000 pounds) each; storage bins B-9 through B-12 have a capacity of 11,000 bushels (770,000 pounds) each; storage bins B-13 through B-17 have a capacity of 4,600 bushels (322,000 pounds) each; storage bins B-21 through B-30 have a capacity of 5,000 bushels (350,000 pounds) each; and storage bins B-31 through B-40 have a capacity of 7,500 bushels (525,000 pounds) each; **storage bins B-41 through B-56 have a capacity of 7,500 bushels (420,000 pounds), each, and storage bins B-57 through B-72 have a capacity of 5,000 bushels (280,000 pounds), each.**
- ...
(j) One (1) corn sheller, identified as Sheller #1, approved for construction in 2007, exhausting to a baghouse for particulate control, identified as CE 15, capacity: **2,500 bushels (140,000 pounds)** ~~2,000 bushels (112,000 pounds)~~ of corn per hour.
- (k) Two (2) corn handling lines, identified as Line 1 and Line 2, consisting of the following:
 - (1) ~~Thirty-two (32)~~ bulk storage bins, identified as B-41 through B-72, approved for construction in 2007, exhausting to a baghouse for particulate control, identified as CE 34, throughput: 1,000 bushels (56,000 pounds) of shelled corn per hour. ~~Storage bins B-41 through B-56 have a capacity of 7,500 bushels (420,000 pounds), each, and storage bins B-57 through B-72 have a capacity of 5,000 bushels (280,000 pounds), each.~~
 - (1) ~~(2)~~ Two (2) cleaners, identified as Cleaner Line 1 and Cleaner Line 2, approved for construction in 2007, exhausting to two (2) baghouses for particulate control, identified as White Dust Collector #1 and White Dust Collector #2, capacity: 500 bushels (28,000 pounds) of shelled corn per hour, each.
 - (2) ~~(3)~~ Two (2) sorters, identified as Sorter Line 1 and Sorter Line 2, approved for construction in 2007, exhausting to two (2) baghouses for particulate control, identified as White Dust Collector #1 and White Dust Collector #2, capacity: 500 bushels (28,000 pounds) of shelled corn per hour, each.
 - (3) ~~(4)~~ Two (2) sizers, identified as Sizer Line 1 and Sizer Line 2, approved for construction in 2007, exhausting to two (2) baghouses for particulate control, identified as White Dust Collector #1 and White Dust Collector #2, capacity: 500 bushels (28,000 pounds) of shelled corn per hour, each.

- (4) (5)** Sixteen (16) gravity tables, identified as Gravity Tables Line 1 and Gravity Tables Line 2, approved for construction in 2007, equipped with sixteen (16) dust collectors for particulate control, identified as Gravity Table Dust Collectors #1 through #16, capacity: 1,000 bushels (56,000 pounds) of shelled corn per hour, total.
- (5) (6)** Twenty-four (24) storage bins, identified as Storage Bins Lines 1 and Storage Bins Line 2, approved for construction in 2007, throughput capacity: 1,000 bushels (56,000 pounds) of shelled corn per hour, total.
- (l) New treating/packing machinery, consisting of the following:
 ...
~~(4) One (1) debagger, identified as EU106, exhausting to a baghouse, identified as CE14, approved for construction in 2007, capacity: 1,000 bushels (56,000 pounds) of shelled corn per hour.~~
- (m) Two (2) new corn receiving lines identified as Corn Receiving #3 and Corn Receiving #4, consisting of two (2) new huskers, identified as Husker 3 and Husker 4, which each consist of six (6) husking beds, approved for construction in 2007, exhausting to general ventilation, capacity: 1,500 bushels (84,000 pounds) of ear corn per hour for each line and each husker.**
- (n) Two (2) new natural gas-fired bin dryers identified as Dry 4 and Dry 5, approved for construction in 2007, exhausting to Stack Dry 4 and Stack Dry 5, with a drying rate of 500 bushels (28,000 pounds) per hour and a heat input capacity of 160 million British thermal units per hour, each equipped with eighteen (18) storage bins, identified as Dry 4 and Dry 5 Bins, used for drying with a capacity of 2,000 bushels (112,000 pounds), each.**
- (o) One (1) new corn sheller, identified as Sheller #2, approved for construction in 2007, exhausting to a baghouse for particulate control, identified as CE15, capacity: 2,500 bushels (140,000 pounds) of corn per hour.**
- (p) Seventy-two (72) new bulk storage bins, identified as B-73 through B-144, approved for construction in 2007, exhausting to a baghouse for particulate control, identified as CE 34, throughput: 2,000 bushels (112,000 pounds) of shelled corn per hour. Storage bins B-73 through B-108 have a capacity of 7,500 bushels (420,000 pounds), each, and storage bins B-109 through B-144 have a capacity of 5,000 bushels (280,000 pounds), each.**

The construction conditions in this section of the permit are being issued under the provisions of 326IAC 2-1 and 326 IAC 2-7-10.5, with conditions listed below, for the new emissions units described in (m) and (p) above. ~~THE CONSTRUCTION CONDITIONS IN THIS SECTION OF THE PERMIT IS BEING ISSUED UNDER THE PROVISIONS OF 326 IAC 2-1 AND 326 IAC 2-7-10.5, WITH CONDITIONS LISTED BELOW, FOR THE NEW EMISSION UNITS DESCRIBED IN (k) AND (l) ABOVE.~~

...
 D.1.4 Particulate Matter (PM) [326 IAC 6-3-2]
 ...

Emission Unit (baghouse)	Process weight rate (tons per hour)	Allowable particulate emission rate (pounds per hour)
Two (2) Receiving Lines, identified as Receiving Lines #1 and #2 (none)	56.0	45.6
Corn Receiving 1, 2, 3, and 4 (none)	28.0	38.2
Two (2) Huskers, identified as Husker 1 and 2 (none)	56.0	45.6
Huskers 1, 2, 3, and 4, part of Corn Receiving 1, 2, 3, and 4 (none)	28.0	38.2
One (1) natural gas-fired bin dryer, identified as Dry 2A	14.0	24.0

(Stack Dry 2A)		
One (1) natural gas-fired bin dryer, identified as Dry 2B (Stack Dry 2B)	14.0	24.0
One (1) natural gas-fired bin dryer, identified as Dry 3 (Stack Dry 3)	14.0	24.0
Five (5) natural gas-fired bin dryers, identified as Dry 1 (Stack Dry 1), Dry 2 (Stack Dry 2), Dry 3 (Stack Dry 3), Dry 4 (Stack Dry 4), and Dry 5 (Stack Dry 5)	28.0	38.2
One (1) debagger, identified as EU34 (Baghouse Red Dust Collector)	28.0	38.2
One (1) Corn Sheller, identified as Sheller 1 (Baghouse CE 15)	70.56.0	47.8 45.6
One (1) Corn Sheller, identified as Sheller 2 (Baghouse CE 15)	70.0	47.8
One (1) rebagging unit, identified as #13 (Baghouse Red Dust Collector)	57.4	45.9
One (1) small lot bagging operation, consisting of EU102 through EU104 (Baghouse CE14)	85.0 99.4	49.66 51.2
Treating/Packing Machinery, consisting of the following emission units:		
Aspirators #1 through #3 (Baghouse Red Dust Collector)	28.0	38.2
Treater #1 through #3 (Baghouse Red Dust Collector)	42.0	42.96 50.2
One (1) bagging unit, identified as EU100, one (1) seed pack fill unit, identified as EU101, one (1) manual seed pack unit, identified as EU105, and one (1) bagging machine, identified as EU12 (Baghouse Red Dust Collector)	33.6 67.2	40.96 47.4
Twelve (12) Storage Bins, identified as Treating and Packing Storage Bins 1 through 12	28.0	38.2
One (1) debagger, identified as EU106 (Baghouse CE14)	46.8	27.4

Two (2) Corn Handling Lines, identified as Lines 1 and 2, consisting of the following:		
Emission Unit (baghouse)	Process weight rate (tons per hour)	Allowable particulate emission rate (pounds per hour)
Sixty-Nine (69) Bulk Storage Bins, identified as B-1 through B-17 and B-21 through B-72	28.0	38.2

Seventy-Two (72) Bulk Storage Bins, identified as B-73 through B-144	56.0	45.64
Cleaners, Lines 1 and 2 (White Dust Collector #1 and #2)	28.0	38.2
Eight (8) Gravity Tables, Line 1 (Gravity Table Dust Collectors #1 through #8)	1.75, each	5.97, each
Eight (8) Gravity Tables, Line 2 (Gravity Table Dust Collectors #9 through #16)	1.75, each	5.97, each
Sorters, Lines 1 and 2 (White Dust Collector #1 and #2)	28.0	38.2
Sizers, Lines 1 and 2 (White Dust Collector #1 and #2)	28.0	38.2

...

Stack # or Exhaust	Emission Unit	Process Weight (tons per hour)	PM Emission Rate (pounds per hour)
Red Dust Collector	EU 34	Subtotal of 28.0	38.2
	EU 100 EU 101 EU 105 EU12	Subtotal of 33.6 67.2	40.96 47.4
	Aspirators #1 - #3	Subtotal of 28.0	38.2
	Treaters #1- #3	Subtotal of 42.0	50.2
			Total: 160.32 174
Baghouse CE14	EU102 EU103 EU104 EU106	85 127.4	49.66 53.7
Baghouse CE15	Sheller 1 Sheller 2	140	54.72
White Dust Collector #1	Sorter, Line 1	14.0	24.0
	Cleaner, Line 1	14.0	24.0
	Sizer, Line 1	14.0	24.0
			Total: 72.0
White Dust Collector #2	Sorter, Line 2	14.0	24.0
	Cleaner, Line 2	14.0	24.0
	Sizer, Line 2	14.0	24.0
			Total: 72.0

D.1.5 Particulate Matter (PM) [326 IAC 2-2]

The PM emissions from the **four (4) corn receiving lines, identified as Corn Receiving 1, 2, 3, and 4, four (4) huskers, identified as Husker 1, 2, 3, and 4, five (5) natural gas-fired bin dryers, identified as Dry 1, 2, 3, 4, and 5 (grain drying)**, two (2) cleaners, identified as Cleaners Lines 1 and 2, the two (2) sorters, identified as Sorters Lines 1 and 2, the two (2) sizers, identified as Sizers Lines 1 and 2, and the sixteen (16) gravity tables, identified as Gravity Tables Lines 1 and 2, which are all

part of the two (2) corn handling lines, identified as Lines 1 and 2, shall be limited to less than the throughput and emission limits specified in the following table:

Emission Units (Baghouse)	Limited Corn Throughput (tons/yr*)	PM Emission Limit (lbs PM/ton corn)
Corn Receiving 1, 2, 3, and 4	245,280, total	0.035
Huskers 1, 2, 3, and 4	245,280, total	0.061
Dry 1, 2, 3, 4, and 5	245,280, total	0.47
Line 1: Cleaner, Sorter, Sizer (White Dust Collector #1)	61,320, total	0.062
Line 2: Cleaner, Sorter, and Sizer (White Dust Collector #2)	61,320, total	0.062
Line 1: Eight (8) Gravity Tables (Gravity Table Dust Collectors #1 through #8)	61,320, total	0.269
Line 2: Eight (8) Gravity Tables (Gravity Table Dust Collectors #9 through #16)	61,320, total	0.269
One (1) bagging unit, identified as EU100, one (1) seed pack fill unit, identified as EU101, one (1) manual seed pack unit, identified as EU105, and one (1) bagging machine, identified as EU12 (Red Dust Collector)	294,336, total	0.061
One (1) small lot bagging operation, consisting of EU102 through EU104 (CE 14)	744,600, total	0.061
Two (2) Receiving Lines, identified as Corn Receiving #1 and Corn Receiving #2 (none)	70,000	0.035
Two (2) Huskers, identified as Husker 1 and 2 (none)	70,000	0.035

...
 D.1.6 Particulate Matter (PM₁₀) [326 IAC 2-8-4]

The PM₁₀ emissions from the **four (4) corn receiving lines, identified as corn receiving 1, 2, 3, and 4, four (4) huskers, identified as Husker 1, 2, 3, and 4, five (5) natural gas-fired bin dryers, identified as Dry 1, 2, 3, 4, and 5 (grain drying)**, two (2) cleaners, identified as Cleaners Lines 1 and 2, the two (2) sorters, identified as Sorters Lines 1 and 2, the two (2) sizers, identified as Sizers Lines 1 and 2, and the sixteen (16) gravity tables, identified as Gravity Tables Lines 1 and 2, which are all part of the two (2) corn handling lines, identified as Lines 1 and 2, shall be limited to less than the throughput and emission limits specified in the following table:

Emission Units (Baghouse)	Limited Corn Throughput (tons/yr*)	PM ₁₀ Emission Limit (lbs PM ₁₀ /ton corn)
---------------------------	------------------------------------	--

Corn Receiving 1, 2, 3, and 4	245,280, total	0.0078
Huskers 1, 2, 3, and 4	245,280, total	0.034
Dry 1, 2, 3, 4, and 5	245,280, total	0.12
Line 1: Cleaner, Sorter, Sizer (White Dust Collector #1)	61,320, total	0.062
Line 2: Cleaner, Sorter, and Sizer (White Dust Collector #2)	61,320, total	0.062
Line 1: Eight (8) Gravity Tables (Gravity Table Dust Collectors #1 through #8)	61,320, total	0.269
Line 2: Eight (8) Gravity Tables (Gravity Table Dust Collectors #9 through #16)	61,320, total	0.269
One (1) bagging unit, identified as EU100, one (1) seed pack fill unit, identified as EU101, one (1) manual seed pack unit, identified as EU105, and one (1) bagging machine, identified as EU12 (Red Dust Collector)	294,336, total	0.034
One (1) small lot bagging operation, consisting of EU102 through EU104 (CE 14)	744,600, total	0.034
Two (2) Receiving Lines, identified as Corn Receiving #1 and Corn Receiving #2 (none)	70,000	0.0078
Two (2) Huskers, identified as Husker 1 and 2 (none)	70,000	0.034

...
 D.1.7 Natural Gas Limit [326 IAC 2-8-4]

- (a) The natural gas usage at the two (2) natural gas-fired bin dryers, identified as ~~Dry 1 2A~~ and ~~Dry 2 2B~~, shall be less than 268 million cubic feet of gas per twelve (12) consecutive month period, total, with compliance determined at the end of each month. As a result of the natural gas limit:
- (1) NO_x from the two (2) natural gas-fired bin dryers, identified as ~~Dry 1 2A~~ and ~~Dry 2 2B~~, shall be limited to 100 pounds of NO_x per million cubic feet of gas, total.
 - (2) CO from the two (2) natural gas-fired bin dryers, identified as ~~Dry 1 2A~~ and ~~Dry 2 2B~~, shall be limited to 84 pounds of CO per million cubic feet of gas, total.
- (b) The natural gas usage at the **three (3)** ~~one (1)~~ natural gas-fired bin dryers, identified as Dry 3, **Dry 4, and Dry 5**, shall be less than **858.9** ~~357~~ million cubic feet of gas per twelve (12) consecutive month period, with compliance determined at the end of each month. As a result of the natural gas limit:
- (1) NO_x from the **three (3)** ~~one (1)~~ natural gas-fired bin dryers, identified as Dry 3, **Dry 4, and Dry 5**, shall be limited to 190 pounds of NO_x per million cubic feet of gas.

- (2) CO from the **three (3) ~~one (1)~~** natural gas-fired bin dryers, identified as Dry 3, **Dry 4, and Dry 5**, shall be limited to 84 pounds of CO per million cubic feet of gas.

...

D.1.15 Record Keeping Requirements

- (a) To document compliance with Condition D.1.7, the Permittee shall maintain records of the amount of natural gas used per month at the **five (5) ~~two (2)~~** natural gas-fired bin dryers, identified as **Dry 1, Dry 2, Dry 3, Dry 4, and Dry 5**. ~~Dry 2A and Dry 2B, and the one (1) natural gas-fired bin dryer, identified as Dry 3.~~
- (b) To document compliance with Conditions D.1.5 and D.1.6, the Permittee shall maintain records of the monthly corn throughput at the **four (4) corn receiving lines, identified as Corn Receiving 1, 2, 3, and 4, four (4) huskers, identified as Husker 1, 2, 3, and 4, five (5) natural gas-fired bin dryers, identified as Dry 1, 2, 3, 4, and 5 (grain drying)**, two (2) cleaners, identified as Cleaners Lines 1 and 2, the two (2) sorters, identified as Sorters Lines 1 and 2, the two (2) sizers, identified as Sizers Lines 1 and 2, and the sixteen (16) gravity tables, identified as Gravity Tables Lines 1 and 2, all part of the two (2) Corn Handling Lines, identified as Lines 1 and 2, the one (1) bagging unit, identified as EU100, the one (1) seed pack fill unit, identified as EU101, the one (1) manual seed pack unit, identified as EU105, the one (1) bagging machine, identified as EU12, the one (1) small lot bagging operation, consisting of EU102 through EU104, and the two (2) receiving lines, identified as Receiving Lines #1 and #2, which consist of two (2) Huskers, identified as Huskers 1 and 2.
- ...
- (d) To document compliance with Condition D.1.12, the Permittee shall maintain **daily** records ~~once per day~~ of visible emission notations **of each** of the two (2) cleaners, identified as Cleaners Lines 1 and 2, the two (2) sorters, identified as Sorters Lines 1 and 2, and the two (2) sizers, identified as Sizers Lines 1 and 2, and the sixteen (16) gravity tables, identified as Gravity Tables Lines 1 and 2, 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).**
- (e) To document compliance with Condition D.1.13, the Permittee shall maintain **daily** records ~~once per day~~ of the pressure drop **across the baghouses identified as White Dust Collectors #1 and #2 and Gravity Table Dust Collectors #1 through #16. The Permittee shall include in its daily record when a pressure drop reading is not taken and the reason for the lack of a pressure drop reading (e.g., the process did not operate that day).**

...

FESOP Quarterly Report:

Source Name: Monsanto Company
Source Address: 15489 South US Highway 231, Remington, Indiana 47977
Mailing Address: P.O. Box 35, Remington, Indiana 47977
FESOP No.: F 073-24875-00035
Facility: Two (2) natural gas-fired bin dryers, identified as **Dry 1 and Dry 2** ~~Dry 2A and Dry 2B~~
Parameter: Natural gas usage
Limit: Less than 268 million cubic feet (mmCF) of natural gas per twelve (12) consecutive month period, total, with compliance determined at the end of each month.

...

FESOP Quarterly Report:

Source Name: Monsanto Company
Source Address: 15489 South US Highway 231, Remington, Indiana 47977
Mailing Address: P.O. Box 35, Remington, Indiana 47977
FESOP No.: F 073-24875-00035
Facility: **Three (3) ~~One (1)~~** natural gas-fired bin dryers, identified as Dry 3, **Dry 4, and Dry 5**
Parameter: Natural gas usage

Limit: Less than ~~858.9~~ **357** million cubic feet (mmCF) of natural gas per twelve (12) consecutive month period, with compliance determined at the end of each month.

...

FESOP Quarterly Report:

Source Name: Monsanto Company
Source Address: 15489 South US Highway 231, Remington, Indiana 47977
Mailing Address: P.O. Box 35, Remington, Indiana 47977
FESOP No.: F 073-24875-00035
Facilities: **Four (4)** ~~Two (2)~~ Receiving Lines, identified as Corn Receiving #1, ~~and~~ Corn Receiving #2, **Corn Receiving #3, and Corn Receiving #4**
Parameter: Corn Throughput
Limit: Less than **245,280** ~~70,000~~ tons per twelve (12) consecutive month period, with compliance determined at the end of each month.

...

FESOP Quarterly Report:

Source Name: Monsanto Company
Source Address: 15489 South US Highway 231, Remington, Indiana 47977
Mailing Address: P.O. Box 35, Remington, Indiana 47977
FESOP No.: F 073-23632-00035
Facilities: **Four (4)** ~~Two (2)~~ Huskers, identified as Husker 1, ~~and~~ Husker 2, **Husker 3, and Husker 4**
Parameter: Corn Throughput
Limit: Less than **245,280** ~~70,000~~ tons per twelve (12) consecutive month period, with compliance determined at the end of each month.

Conclusion

The operation of this shall be subject to the conditions of the attached proposed FESOP Significant Permit Revision No. 073-24875-00035.

**Appendix A: Emissions Calculations
Corn Processing**

Company Name: Monsanto Company
Address City IN Zip: 15849 South US Highway 231, Remington, IN 47977
FESOP: 073-24875-00035
Plt ID: 073-00035
Reviewer: Brian M Williams
Application Date: June 4, 2007

Potential to Emit of New Units (Modification)							
Facility/Operation	Throughput (lb/hr)	Emission Factor* (lb/ton)	PM Emissions (uncontrolled) (ton/yr)	PM10 Emissions (uncontrolled) (ton/yr)	Efficiency of Control Device	PM Emissions (controlled) (ton/yr)	PM10 (controlled) Emissions (ton/yr)
Corn Receiving 3 and 4	168,000	PM = 0.035 PM10 = 0.0078	12.88	2.870	0.00%	12.88	2.870
Huskers 3 and 4	168,000	PM = 0.061 PM10 = 0.034	22.44	12.51	0.00%	22.44	12.51
Dryer 4 and 5	56,000	PM = 0.47 PM10 = 0.12	57.64	14.72	0.00%	57.64	14.72
Sheller ¹ #2	140,000	PM = 0.001 PM10 = 0.001	2.49	2.49	99.0%	0.025	0.025
Total			95.45	32.58		92.99	30.12

Methodology

*Efs from AP-42, Section 9.9.1.

PM and PM10 Emissions = Throughput, lb/hr * ton/2000 lb * Ef, lb/ton * ton/2000 lb * 8760 hr/yr

¹Shelling PM Emissions = Baghouse CE-15 air flow rate, ft³/min * cyclone grain loading, gr/ft³ * lb/7000gr * ton/2000 lb * 60 min/hr * 8760 hr/yr
= 11050 cuft/min * 0.006 gr/cuft * 1/7000 lb/gr * 1/2000 lb/ton * 60 min/hr * 8760 hr/yr

**Appendix A: Emissions Calculations
Corn Processing**

Company Name: Monsanto Company
Address City IN Zip: 15849 South US Highway 231, Remington, IN 47977
FESOP: 073-24875-00035
Plt ID: 073-00035
Reviewer: Brian M Williams
Application Date: June 4, 2007

Potential to Emit of Existing Units (Before Modification)				
Facility/Operation	Limited Throughput (lb/hr)	Emission Factor* (lb/ton)	Limited PM Emissions (ton/yr)	Limited PM10 Emissions (ton/yr)
Corn Receiving 1 and 2	70,000	PM = 0.035 PM10 = 0.0078	5.37	1.20
Huskers 1 and 2	70,000	PM = 0.061 PM10 = 0.034	9.35	5.21
Sheller ¹ #1	112,000	PM = 0.001 PM10 = 0.001	2.49	2.49
Treaters #1 through #3	84,000	PM = 0.061 PM10 = 0.034	11.22	6.25
Total			28.43	15.15

Methodology

*Efs from AP-42, Section 9.9.1.

Limited PM and PM10 Emissions = Limited Throughput, lb/hr * ton/2000 lb * 8760 hr/yr * Limited Ef, lb/ton

¹Shelling PM Emissions =Baghouse CE-15 air flow rate, ft³/min * cyclone grain loading, gr/ft³ * lb/7000gr * ton/2000 lb * 60 min/hr * 8760 hr/yr
 = 11050 cuft/min * 0.006 gr/cuft * 1/7000 lb/gr * 1/2000 lb/ton * 60 min/hr * 8760 hr/yr

**Appendix A: Emissions Calculations
Corn Processing**

Company Name: Monsanto Company
Address City IN Zip: 15849 South US Highway 231, Remington, IN 47977
FESOP: 073-24875-00035
Plt ID: 073-00035
Reviewer: Brian M Williams
Application Date: June 4, 2007

Potential to Emit of New and Modified Units (After Modification)				
Facility/Operation	Limited Corn Throughput (tons/yr)	Emission Factor* (lb/ton)	Limited PM Emissions (ton/yr)	Limited PM10 Emissions (ton/yr)
Corn Receiving 1, 2, 3, and 4	245,280	PM = 0.035 PM10 = 0.0078	4.29	0.96
Huskers 1, 2, 3, and 4	245,280	PM = 0.061 PM10 = 0.034	7.48	4.17
Ear Corn Dryer 1, 2, 3, 4, and 5	245,280	PM = 0.47 PM10 = 0.12	57.6	14.72
Shellers #1 and #2 ¹	280,000	PM = 0.001 PM10 = 0.001	4.98	4.98
Treaters #1 through #3	84,000	PM = 0.061 PM10 = 0.034	11.22	6.25
Total			85.61	31.08

Methodology

*Efs from AP-42, Section 9.9.1.

Limited PM and PM10 Emissions = Limited Throughput, ton/yr * ton/2000 lb * Limited Ef, lb/ton

¹PM Emissions for each Sheller = Baghouse CE-15 air flow rate, ft³/min * cyclone grain loading, gr/ft³ * lb/7000gr * ton/2000 lb * 60 min/hr * 8760 hr/yr
= 11050 cuft/min * 0.006 gr/cuft * 1/7000 lb/gr * 1/2000 lb/ton * 60 min/hr * 8760 hr/yr

**Appendix A: Emission Calculations
Natural Gas Combustion Only (Unlimited)
MMBTU/HR >100**

**Company Name: Monsanto Company
Address City IN Zip: 15849 South US Highway 231, Remington, IN 47977
Permit Number: 073-24875-00035
Plt ID: 073-00035
Reviewer: Brian M Williams
Date: June 4, 2007**

One (1) natural gas-fired bin dryer, identified as Dry 4

Heat Input Capacity
MMBtu/hr

Potential Throughput
MMCF/yr

160.0

1401.6

Emission Factor in lb/MMCF	Pollutant					
	PM*	PM10*	SO2	NOx	VOC	CO
	1.9	7.6	0.6	190.0	5.5	84.0
				**see below		
Potential Emission in tons/yr	1.33	5.33	0.42	133.2	3.85	58.9

*PM emission factor is filterable PM only. PM10 emission factor is condensable and filterable PM10 combined.

**Emission Factors for NOx: Uncontrolled = 280 (pre-NSPS) or 190 (post-NSPS), Low NOx Burner = 140, Flue gas recirculation = 100 (See Table 1.4-1)

Methodology

All emission factors are based on normal firing.

MMBtu = 1,000,000 Btu

MMCF = 1,000,000 Cubic Feet of Gas

Potential Throughput (MMCF) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1 MMCF/1,000 MMBtu

Emission Factors from AP 42, Chapter 1.4, Tables 1.4-1, 1.4-2, and 1.4-3, SCC #1-01-006-01, 1-01-006-04 (AP-42 Supplement D 3/98)

Emission (tons/yr) = Throughput (MMCF/yr) x Emission Factor (lb/MMCF)/2,000 lb/ton

See page 5 for HAPs emissions calculations.

Appendix A: Emission Calculations
Natural Gas Combustion Only (Unlimited)
MMBTU/HR >100
HAPs Emissions

Company Name: Monsanto Company
Address City IN Zip: 15849 South US Highway 231, Remington, IN 47977
FESOP: 073-24875-00035
Pit ID: 073-00035
Reviewer: Brian M Williams
Application Date: June 4, 2007

HAPs - Organics					
Emission Factor in lb/MMcf	Benzene 2.1E-03	Dichlorobenzene 1.2E-03	Formaldehyde 7.5E-02	Hexane 1.8E+00	Toluene 3.4E-03
Potential Emission in tons/yr	1.47E-03	8.41E-04	5.26E-02	1.26E+00	2.38E-03

HAPs - Metals					
Emission Factor in lb/MMcf	Lead 5.0E-04	Cadmium 1.1E-03	Chromium 1.4E-03	Manganese 3.8E-04	Nickel 2.1E-03
Potential Emission in tons/yr	3.50E-04	7.71E-04	9.81E-04	2.66E-04	1.47E-03

Methodology is the same as page 4.

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: Emission Calculations
Natural Gas Combustion Only (Unlimited)
MMBTU/HR >100

Company Name: Monsanto Company
Address City IN Zip: 15849 South US Highway 231, Remington, IN 47977
Permit Number: 073-24875-00035
Plt ID: 073-00035
Reviewer: Brian M Williams
Date: June 4, 2007

One (1) natural gas-fired bin dryer, identified as Dry 5
Heat Input Capacity

MMBtu/hr 160.0

Potential Throughput
MMCF/yr
1401.6

	Pollutant					
	PM*	PM10*	SO2	NOx	VOC	CO
Emission Factor in lb/MMCF	1.9	7.6	0.6	190.0 **see below	5.5	84.0
Potential Emission in tons/yr	1.33	5.33	0.42	133.2	3.85	58.9

*PM emission factor is filterable PM only. PM10 emission factor is condensable and filterable PM10 combined.

**Emission Factors for NOx: Uncontrolled = 280 (pre-NSPS) or 190 (post-NSPS), Low NOx Burner = 140, Flue gas recirculation = 100 (See Table 1.4-1)

Methodology

All emission factors are based on normal firing.

MMBtu = 1,000,000 Btu

MMCF = 1,000,000 Cubic Feet of Gas

Potential Throughput (MMCF) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1 MMCF/1,000 MMBtu

Emission Factors from AP 42, Chapter 1.4, Tables 1.4-1, 1.4-2, and 1.4-3, SCC #1-01-006-01, 1-01-006-04 (AP-42 Supplement D 3/98)

Emission (tons/yr) = Throughput (MMCF/yr) x Emission Factor (lb/MMCF)/2,000 lb/ton

See page 7 for HAPs emissions calculations.

Appendix A: Emission Calculations
Natural Gas Combustion Only (Unlimited)
MMBTU/HR >100
HAPs Emissions

Company Name: Monsanto Company
Address City IN Zip: 15849 South US Highway 231, Remington, IN 47977
FESOP: 073-24875-00035
Plt ID: 073-00035
Reviewer: Brian M Williams
Application Date: June 4, 2007

HAPs - Organics					
Emission Factor in lb/MMcf	Benzene 2.1E-03	Dichlorobenzene 1.2E-03	Formaldehyde 7.5E-02	Hexane 1.8E+00	Toluene 3.4E-03
Potential Emission in tons/yr	1.47E-03	8.41E-04	5.26E-02	1.26E+00	2.38E-03

HAPs - Metals					
Emission Factor in lb/MMcf	Lead 5.0E-04	Cadmium 1.1E-03	Chromium 1.4E-03	Manganese 3.8E-04	Nickel 2.1E-03
Potential Emission in tons/yr	3.50E-04	7.71E-04	9.81E-04	2.66E-04	1.47E-03

Methodology is the same as page 6.

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: Emission Calculations
Natural Gas Combustion Only (Limited)
MMBTU/HR >100**

Company Name: Monsanto Company
Address City IN Zip: 15849 South US Highway 231, Remington, IN 47977
Permit Number: 073-24875-00035
Plt ID: 073-00035
Reviewer: Brian M Williams
Date: June 4, 2007

**Three (3) natural gas-fired bin dryers,
identified as Dry 3, Dry 4, and Dry 5 (160
MMBtu/hr each)**

Heat Input Capacity
MMBtu/hr

480.0

Limited Potential Throughput
MMCF/yr

859.0

	Pollutant					
	PM*	PM10*	SO2	NOx	VOC	CO
Emission Factor in lb/MMCF	1.9	7.6	0.6	190.0 **see below	5.5	84.0
Potential Emission in tons/yr	0.82	3.26	0.26	81.61	2.36	36.08

*PM emission factor is filterable PM only. PM10 emission factor is condensable and filterable PM10 combined.

**Emission Factors for NOx: Uncontrolled = 280 (pre-NSPS) or 190 (post-NSPS), Low NOx Burner = 140, Flue gas recirculation = 100 (See Table 1.4-1)

Methodology

All emission factors are based on normal firing.

MMBtu = 1,000,000 Btu

MMCF = 1,000,000 Cubic Feet of Gas

Potential Throughput (MMCF) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1 MMCF/1,000 MMBtu

Emission Factors from AP 42, Chapter 1.4, Tables 1.4-1, 1.4-2, and 1.4-3, SCC #1-01-006-01, 1-01-006-04 (AP-42 Supplement D 3/98)

Emission (tons/yr) = Throughput (MMCF/yr) x Emission Factor (lb/MMCF)/2,000 lb/ton

See page 9 for HAPs emissions calculations.

**Appendix A: Emission Calculations
Natural Gas Combustion Only (Limited)
MMBTU/HR >100**

HAPs Emissions

Company Name: Monsanto Company
Address City IN Zip: 15849 South US Highway 231, Remington, IN 47977
Permit Number: 073-24875-00035
Pit ID: 073-00035
Reviewer: Brian M Williams
Date: June 4, 2007

**Three (3) natural gas-fired bin
dryers, identified as Dry 3, Dry 4,
and Dry 5 (160 MMBtu/hr each)**

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	9.02E-04	5.15E-04	3.22E-02	7.73E-01	1.46E-03

HAPs - Metals					
	Lead	Cadmium	Chromium	Manganese	Nickel
Emission Factor in lb/MMcf	5.0E-04	1.1E-03	1.4E-03	3.8E-04	2.1E-03
Potential Emission in tons/yr	2.15E-04	4.72E-04	6.01E-04	1.63E-04	9.02E-04

Methodology is the same as page 8.

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
VOC and HAPs Emissions
From Seed Coating Operations**

Company Name: Monsanto Company
Address City IN Zip: 15849 South US Highway 231, Remington, IN 47977
FESOP: 073-24875-00035
Pit ID: 073-00035
Reviewer: Brian M Williams
Application Date: June 4, 2007

Three (3) treaters, identified as Treaters 1 through 3

Material	Density (lb/gal)	Weight % Volatile	Pounds VOC per gallon of coating	Gal of Mat. (gal/ton of seed)	Maximum ¹ (tons seed/year)	Unlimited PTE of VOC (lbs/year)	Unlimited PTE of VOC (tons/year)	Weight % Glycol Ethers	Glycol Ether Emissions (tons/year)
Apron XL LS	9.30	68.0%	6.32	0.007	64,000	2655	1.328	1.00%	0.020
Poncho - Medium	10.6	17.0%	1.80	0.353	64,000	40687	20.34	0.00%	0
Poncho High (overtreat)	10.6	17.0%	1.80	1.97	5,600	19848	9.92	0.00%	0
Precise - Medium	10.5	28.0%	2.94	0.313	64,000	58800	29.40	0.00%	0
Precise High (overtreat)	10.5	28.0%	2.94	0.469	5,600	7717	3.86	0.00%	0
Maxim XL	9.20	12.0%	0.550	0.026	64,000	1855	0.927	12.0%	0.927
Red Colorant	9.90	1.80%	0.178	0.039	21,000	146.2	0.073	0.00%	0
Green Colorant	11.0	1.80%	0.198	0.047	64,000	594.1	0.297	0.00%	0
Blue Colorant	9.90	1.80%	0.178	0.078	21,000	292.4	0.146	0.00%	0
Seed Gloss	10.1	0.00%	0.00	0.00	21,000	0.00	0.00	0.00%	0
Dynasty	8.67	6.00%	0.520	0.022	42,000	482	0.241	0.00%	0
Trilex	9.10	20.0%	1.82	0.088	64,000	10240	5.12	0.00%	0
Total						143,316	71.7		0.947

$\text{Limited PTE of VOC (tons/year)}^2 = 75.0$
--

METHODOLOGY

Potential VOC, Tons per Year = Pounds of VOC per Gallon coating (lb/gal) * Gal of Material (gal/ton) * Maximum Annual Amount of Grain Coated (tons/yr)

HAPS emission rate (tons/yr) = Density (lb/gal) * Gal of Coating (gal/ton) * Maximum Amount of Grain Coated(tons/year) * Weight % HAP * 1 ton/2000 lbs

Note¹: Hourly capacity of 500 bushels (28,000 lbs) per hour per treater.

Note²: The VOC usage from Treaters #1, #2, and #3 will continue to be limited to less than 25 tons per twelve consecutive month period per treater.

**Appendix A: Emissions Calculations
Grain Storage Bins**

Company Name: Monsanto Company
Address City IN Zip: 15849 South US Highway 231, Remington, IN 47977
FESOP: 073-24875-00035
Plt ID: 073-00035
Reviewer: Brian M Williams
Application Date: June 4, 2007

Facility/Operation	Throughput (bushels/hour)	Emission Factor (lb/ton)	PM Emissions (ton/year)	PM10 Emissions (ton/year)
Bulk Storage Bins, identified as B-73 through B-144	2000	PM = 0.025 PM10 = .0063	6.13	1.545
TOTAL EMISSIONS			6.13	1.54

Methodology

AP-42, Chapter 9, Section 9, Tables 9.9.1-1 and 9.9.1-2

PM/PM-10 Emissions = Capacity, bushels/hr * .02799 tons of grain/bushel * Ef, lb/ton * ton/2000 lb * 8760 hrs/yr

**Appendix A: Emissions Calculations
Summary**

Company Name: Monsanto Company
Address City IN Zip: 15489 S U.S. 231, Remington, IN 47977
FESOP: 073-24875-00035
Plt ID: 073-00035
Reviewer: Brian M Williams
Application Date: June 4, 2007

Summary of Modification Emissions (New Emission Units)

Significant Emission Units	Uncontrolled Potential Emissions																		
	PM	PM-10	SO2	NOx	VOC	CO	Lead	Glycol Ether	Benzene	Dichlorobenzene	Formaldehyde	Hexane	Toluene	Cadmium	Chromium	Maganese	Nickel	Total HAPs	
	(tons/yr)	(tons/yr)	(tons/yr)	(tons/yr)	(tons/yr)	(tons/yr)	(tons/yr)	(tons/yr)	(tons/yr)	(tons/yr)	(tons/yr)	(tons/yr)	(tons/yr)	(tons/yr)	(tons/yr)	(tons/yr)	(tons/yr)	(tons/yr)	
Corn Receiving 3 and 4, consisting of Huskers 3 and 4	35.32	15.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Two natural gas-fired bin dryers, identified as Dry 4 and Dry 5	2.66	10.65	0.841	266.3	7.71	117.7	0.0007	0.00	0.003	0.002	0.105	2.52	0.005	0.002	0.002	0.0005	0.003	0.003	2.65
Two Rack dryers (Grain Drying), identified as Dry 4 and Dry 5	57.64	14.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
One corn sheller, identified as Sheller 2	2.49	2.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Bulk storage bins, identified as B-73 through B-144	6.13	1.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	104.24	44.78	0.841	266.3	7.71	117.7	0.0007	0.00	0.003	0.002	0.105	2.52	0.005	0.002	0.002	0.0005	0.003	0.003	2.65

**Appendix A: Emissions Calculations
Summary**

**Company Name: Monsanto Company
Address City IN Zip: 15489 S U.S. 231, Remington, IN 47977
FESOP: 073-24875-00035
Plt ID: 073-00035
Reviewer: Brian M Williams
Application Date: June 4, 2007**

Summary of Modification Emissions (New Emission Units)

Significant Emission Units	Controlled Potential Emissions																		
	PM (tons/yr)	PM-10 (tons/yr)	SO2 (tons/yr)	NOx (tons/yr)	VOC (tons/yr)	CO (tons/yr)	Lead (tons/yr)	Glycol Ether (tons/yr)	Benzene (tons/yr)	Dichlorobenzene (tons/yr)	Formaldehyde (tons/yr)	Hexane (tons/yr)	Toluene (tons/yr)	Cadmium (tons/yr)	Chromium (tons/yr)	Maganese (tons/yr)	Nickel (tons/yr)	Total HAPs (tons/yr)	
Corn Receiving 3 and 4, consisting of Huskers 3 and 4	35.32	15.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Two natural gas-fired bin dryers, identified as Dry 4 and Dry 5	2.66	10.65	0.841	266.3	7.71	117.7	0.0007	0.00	0.003	0.002	0.105	2.52	0.005	0.002	0.002	0.0005	0.003	2.65	
Two Rack dryers (Grain Drying), identified as Dry 4 and Dry 5	57.64	14.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
One corn sheller, identified as Sheller 2	0.025	0.025	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Bulk storage bins, identified as B-73 through	6.13	1.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	101.78	42.32	0.841	266.3	7.71	117.7	0.0007	0.00	0.003	0.002	0.105	2.52	0.005	0.002	0.002	0.0005	0.003	2.65	

**Appendix A: Emissions Calculations
Summary**

Company Name: Monsanto Company
Address City IN Zip: 15489 S U.S. 231, Remington, IN 47977
FESOP: 073-24875-00035
Plt ID: 073-00035
Reviewer: Brian M Williams
Application Date: June 4, 2007

Summary of Modification Emissions (New and Modified Emission Units)

Significant Emission Units	Limited Potential Emissions																		
	PM	PM-10	SO2	NOx	VOC	CO	Lead	Glycol Ether	Benzene	Dichlorobenzene	Formaldehyde	Hexane	Toluene	Cadmium	Chromium	Maganese	Nickel	Total HAPs	
	(tons/yr)	(tons/yr)	(tons/yr)	(tons/yr)	(tons/yr)	(tons/yr)	(tons/yr)	(tons/yr)	(tons/yr)	(tons/yr)	(tons/yr)	(tons/yr)	(tons/yr)	(tons/yr)	(tons/yr)	(tons/yr)	(tons/yr)	(tons/yr)	
Corn Receiving 1, 2, 3, and 4	4.29	0.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Huskers 1, 2, 3, and 4	7.48	4.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Three (3) natural gas-fired bin dryers, identified as Dry 3, Dry 4, and Dry 5	0.82	3.26	0.258	81.6	2.362	36.1	0.0002	0.00	0.0009	0.0005	0.0322	0.77	0.0015	0.0005	0.0006	0.0002	0.0009	0.81	
Rack Dryer (Grain Drying), identified as Dry 1, Dry 2, Dry 3, Dry 4, and Dry 5	57.64	14.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Two (2) corn shellers, identified as Sheller 1 and Sheller 2	4.98	4.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Bulk storage bins, identified as B-73 through B-144	6.13	1.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Three (3) treaters, identified as Treaters #1 through #3	11.22	6.25	0.00	0.00	75.00	0.00	0.00	0.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.95
Total	92.56	35.89	0.258	81.6	77.36	36.1	0.0002	0.95	0.0009	0.0005	0.0322	0.77	0.0015	0.0005	0.0006	0.0002	0.0009	1.76	

