



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 12, 2007
RE: Agricor, Inc. / 053-16206-00052
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



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100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251
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Federally Enforceable State Operating Permit Renewal OFFICE OF AIR QUALITY

**Agricor, Inc.
1626 South Joaquin Drive
Marion, Indiana 46952**

(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.

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.

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.

Operation Permit No.: F 053-16206-00052	
Issued by/Original Signed By: Nisha Sizemore, Chief Permits Branch Office of Air Quality	Issuance Date: September 12, 2007 Expiration Date: September 12, 2012

TABLE OF CONTENTS

SECTION A	SOURCE SUMMARY	4
A.1	General Information [326 IAC 2-8-3(b)]	
A.2	Emission Units and Pollution Control Equipment Summary [326 IAC 2-8-3(c)(3)]	
A.3	Specifically Regulated Insignificant Activities [326 IAC 2-7-1(21)] [326 IAC 2-8-3(c)(3)(I)]	
A.4	FESOP Applicability [326 IAC 2-8-2]	
SECTION B	GENERAL CONDITIONS	7
B.1	Definitions [326 IAC 2-8-1]	
B.2	Permit Term [326 IAC 2-8-4(2)] [326 IAC 2-1.1-9.5] [IC 13-15-3-6(a)]	
B.3	Term of Conditions [326 IAC 2-1.1-9.5]	
B.4	Enforceability [326 IAC 2-8-6]	
B.5	Severability [326 IAC 2-8-4(4)]	
B.6	Property Rights or Exclusive Privilege [326 IAC 2-8-4(5)(D)]	
B.7	Duty to Provide Information [326 IAC 2-8-4(5)(E)]	
B.8	Certification [326 IAC 2-8-3(d)] [326 IAC 2-8-4(3)(C)(i)] [326 IAC 2-8-5(1)]	
B.9	Annual Compliance Certification [326 IAC 2-8-5(a)(1)]	
B.10	Compliance Order Issuance [326 IAC 2-8-5(b)]	
B.11	Preventive Maintenance Plan [326 IAC 1-6-3] [326 IAC 2-8-4(9)] [326 IAC 2-8-5(a)(1)]	
B.12	Emergency Provisions [326 IAC 2-8-12]	
B.13	Prior Permits Superseded [326 IAC 2-1.1-9.5]	
B.14	Termination of Right to Operate [326 IAC 2-8-9] [326 IAC 2-8-3(h)]	
B.15	Deviations from Permit Requirements and Conditions [326 IAC 2-8-4(3)(C)(ii)]	
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]	
B.17	Permit Renewal [326 IAC 2-8-3(h)]	
B.18	Permit Amendment or Revision [326 IAC 2-8-10] [326 IAC 2-8-11.1]	
B.19	Operational Flexibility [326 IAC 2-8-15] [326 IAC 2-8-11.1]	
B.20	Source Modification Requirement [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]	
B.22	Transfer of Ownership or Operational Control [326 IAC 2-8-10]	
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]	
B.24	Credible Evidence [326 IAC 2-8-4(3)] [326 IAC 2-8-5] [62 FR 8314] [326 IAC 1-1-6]	
SECTION C	SOURCE OPERATION CONDITIONS	16
	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]	
C.2	Overall Source Limit [326 IAC 2-8]	
C.3	Opacity [326 IAC 5-1]	
C.4	Open Burning [326 IAC 4-1] [IC 13-17-9]	
C.5	Incineration [326 IAC 4-2] [326 IAC 9-1-2]	
C.6	Fugitive Dust Emissions [326 IAC 6-4]	
C.7	Fugitive Particulate Matter Emission Limitations [326 IAC 6-5]	
C.8	Stack Height [326 IAC 1-7]	
C.9	Asbestos Abatement Projects [326 IAC 14-10] [326 IAC 18] [40 CFR 61, Subpart M]	
	Testing Requirements [326 IAC 2-8-4(3)]	
C.10	Performance Testing [326 IAC 3-6]	
	Compliance Requirements [326 IAC 2-1.1-11]	
C.11	Compliance Requirements [326 IAC 2-1.1-11]	

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

- C.12 Compliance Monitoring [326 IAC 2-8-4(3)] [326 IAC 2-8-5(a)(1)]
- C.13 Monitoring Methods [326 IAC 3] [40 CFR 60] [40 CFR 63]
- C.14 Instrument Specifications [326 IAC 2-1.1-11] [326 IAC 2-8-4(3)] [326 IAC 2-8-5(1)]

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

- C.15 Emergency Reduction Plans [326 IAC 1-5-2] [326 IAC 1-5-3]
- C.16 Risk Management Plan [326 IAC 2-8-4] [40 CFR 68]
- C.17 Response to Excursions or Exceedances [326 IAC 2-8-4] [326 IAC 2-8-5]
- C.18 Actions Related to Noncompliance Demonstrated by a Stack Test [326 IAC 2-8-4] [326 IAC 2-8-5]

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

- C.19 General Record Keeping Requirements [326 IAC 2-8-4(3)] [326 IAC 2-8-5]
- C.20 General Reporting Requirements [326 IAC 2-8-4(3)(C)] [326 IAC 2-1.1-11]

Stratospheric Ozone Protection

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

SECTION D.1 FACILITY OPERATION CONDITIONS: Dry Corn Milling Operation 23

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

- D.1.1 FESOP and PSD Minor Limits [326 IAC 2-2] [326 IAC 2-8]
- D.1.2 Particulate [326 IAC 6-3-2]
- D.1.3 Preventive Maintenance Plan [326 IAC 2-8-4(9)]

Compliance Determination Requirements

- D.1.4 Particulate Control [326 IAC 2-7-6(6)]

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

- D.1.5 Visible Emissions Notations
- D.1.6 Parametric Monitoring [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]
- D.1.7 Broken or Failed Bag Detection
- D.1.8 Cyclone Failure Detection

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

- D.1.9 Record Keeping Requirements
- D.1.10 Reporting Requirements

SECTION D.2 FACILITY OPERATION CONDITIONS: Insignificant Activities..... 31

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

- D.2.1 Particulate Emission Limitations for Sources of Indirect Heating [326 IAC 6-2-4]

Certification Form 32

Emergency Occurrence Form 33

Quarterly Report Forms 35

Quarterly Deviation and Compliance Monitoring Report Form 37

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 dry corn milling operation.

Source Address:	1626 South Joaquin Drive, Marion, Indiana 46952
Mailing Address:	P.O. Box 807, Marion, Indiana 46952
General Source Phone Number:	765 - 662 - 0606
SIC Code:	2041
County Location:	Grant
Source Location Status:	Attainment for all criteria pollutants
Source Status:	Federally Enforceable State Operating Permit Program Minor Source, under PSD 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) One (1) receiving pit, identified as Line 1 Receiving, constructed in 1983, capacity: 112,000 pounds of corn per hour.
- (b) One (1) truck receiving system, identified as RS-1, constructed in 2002, capacity 560,000 pounds of grain products per hour, consisting of the following:
 - (1) One (1) receiving conveyor, identified as RC-1, equipped with one (1) baghouse for particulate control, identified as Baghouse RS-1, exhausting to Stack RS-1;
 - (2) Three (3) receiving bins, identified as RSB-1, RSB-2, and RSB-3;
 - (3) One (1) transfer conveyor, identified as RC-2, equipped with one (1) baghouse for particulate control, identified as Baghouse RS-1, exhausting to Stack RS-1;
 - (4) One (1) truck receiving pit, identified as RP, equipped with one (1) baghouse for particulate control, identified as Baghouse RS-1, exhausting to Stack RS-1;
- (c) Three (3) storage bins, identified as M-1, M-2, and M-3, constructed in 1983, capacity: 120,000 pounds of grain products, each.
- (d) Fifteen (15) storage bins, identified as 1-1 through 1-4, 2-1 through 2-4, 3-1 through 3-4, and 4-1 through 4-3, constructed in 1983, capacity: 50,000 pounds of grain products, each.
- (e) One (1) storage bin, identified as Temper, constructed in 1983, capacity: 20,000 pounds of grain products.
- (f) Five (5) storage bins, identified as C-1, C-2, C-3, and C-4, constructed in 1983, and C-5, constructed in 2001, capacity: 560,000 pounds of corn, each.

- (g) One (1) precleaning/handling operation, identified as Line 1 Precleaning, constructed in 1983, capacity: 25,760 pounds of corn per hour.
- (h) One (1) precleaning/handling operation, identified as Line 2 Precleaning, constructed in 2001, capacity: 25,760 pounds of corn per hour.
- (i) One (1) grain handling and cleaning operation, identified as Line 1 Cleaning, constructed in 1983, equipped with one (1) baghouse for particulate control, identified as A/B ch, initially exhausting to the Milling Building which then exhausts to general building ventilation (Stacks M-1, M-2 and M-3), capacity: 25,760 pounds of corn per hour.
- (j) One (1) grain handling and cleaning operation, identified as Line 2 Cleaning, constructed in 2001, equipped with a baghouse, identified as CH-1, exhausting to Stack CH-1, capacity: 25,760 pounds of grain products per hour.
- (k) One (1) meal drying operation, identified as Line 1 Drying, constructed in 1983, equipped with three (3) rotary dryers, identified as Meal, Grits, and Cones Dryers and three (3) cyclones for particulate control, identified as D-1, D-2, and D-3, each initially exhausting to an additional cyclone, identified as D-8 which then exhausts to Stack D-8, capacity: 25,760 pounds of grain per hour.
- (l) One (1) meal drying operation, identified as Line 2 Drying, constructed in 2001, capacity 25,760 pounds of grain products per hour, consisting of the following:
 - (1) One (1) meal rotary dryer, identified as D4, equipped with one (1) cyclone for particulate control, identified as D-4, then exhausting to the cyclone identified as D-7, which then exhausts to Stack D-7;
 - (2) One (1) grits rotary dryer, identified as D5, equipped with one (1) cyclone for particulate control, identified as D-5, then exhausting to the cyclone identified as D-7, which then exhausts to Stack D-7; and
 - (3) One (1) cones rotary dryer, identified as D6, equipped with one (1) cyclone for particulate control, identified as D-6, then exhausting to the cyclone identified as D-7, which then exhausts to Stack D-7.
- (m) One (1) cooling operation, identified as Line 1 Cooling, constructed in 1983, equipped with three (3) coolers, identified as Meal, Grits, and Cones Coolers and three (3) baghouses for particulate control, identified as C-1, C-2, and C-3, initially exhausting to the Milling Building which then exhausts to general building ventilation (Stacks M-1, M-2 and M-3), capacity: 25,760 pounds of grain products per hour.
- (n) One (1) cooling operation, identified as Line 2 Cooling, constructed in 2001, equipped with three (3) coolers, identified as Meal, Grits, and Cones Coolers and three (3) baghouses for particulate control, identified as C-4, C-5, and C-6, with C-4 and C-5 exhausting to Stacks C-4 and C-5 and C-6 initially exhausting to the Milling Building which then exhausts to general building ventilation (Stacks M-1, M-2 and M-3), capacity: 25,760 pounds of grain products per hour.
- (o) One (1) milling operation, identified as Line 1 Milling, constructed in 1983, equipped with six (6) baghouses for particulate control, identified as C asp, A/B asp, A plf, B plf, C plf, and A/B feed, initially exhausting to the Milling Building which then exhausts to general building ventilation (Stacks M-1, M-2 and M-3), capacity: 25,760 pounds of corn per hour.

This line includes:

- (1) One (1) sifting operation, identified as Line 1 Sifting, constructed in 1998, capacity: 16,016 pound of grain products per hour;
 - (2) One (1) grinding operation, identified as Line 1 Grinding, constructed in 1998, capacity: 16,016 pounds of grain per hour; and
 - (3) One (1) aspiration operation, identified as Line 1 Aspiration, constructed in 1998, capacity: 3,500 actual cubic feet of air per minute.
- (p) One (1) milling line, identified as Line 2 Milling, constructed in 2001, capacity: 25,760 pounds of corn per hour, consisting of the following: Three (3) roller mills, eight (8) aspirators, and two (2) sifters, equipped with two (2) baghouses for particulate control, identified as MVSA and P-1, exhausting to Stacks MVSA and P-1, respectively.
- (q) One (1) hammermill, constructed in 2001, equipped with a baghouse for particulate control, identified as GSF, exhausting to Stack GSF, capacity: 25,760 pounds of corn per hour.
- (r) One (1) conveying operation, constructed in 2001, equipped with a baghouse for particulate control, identified as FC-1, exhausting to Stack FC-1, capacity: 25,760 pounds of corn per hour.
- (s) One (1) loading and shipping operation, identified as Line 1 Loading, constructed in 1983, equipped with a baghouse, identified as TLF, exhausting to Stack TLF, capacity 51,520 pounds of grain products per hour.
- (t) One (1) loading and shipping operation, identified as Rail Feed Loading, constructed in 1983, capacity 100,000 pounds of grain products per hour.
- (u) One (1) loading and shipping operation, identified as 2006 Feed Loading, constructed in 2006, equipped with two baghouses, identified as TLF and GSF, exhausting to Stacks TLF and GSF, respectively, capacity 200,000 pounds of grain products per hour.

A.3 Specifically Regulated 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 which are specifically regulated, as defined in 326 IAC 2-7-1(21):

Natural gas-fired combustion sources with heat input equal to or less than ten million (10,000,000) British thermal units per hour; and Propane for liquefied petroleum gas, or butane-fired combustion sources with heat input equal to or less than six million (6,000,000) British thermal units per hour [326 IAC 6-2-4].

- (a) One (1) natural gas-fired boiler, identified as B1, constructed after September 21, 1983, utilizing liquid petroleum gas as a back-up fuel, heat input capacity: 1.67 million British thermal units per hour; and
- (b) One (1) natural gas-fired boiler, identified as B2, constructed in 1998, utilizing liquid petroleum gas as a back-up fuel, heat input capacity: 4.19 million British thermal units per hour.

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) to renew 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, F 053-16206-00052, 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. All certifications shall cover the time period from January 1 to December 31 of the previous year, and shall be submitted no later than July 1 of each year to:

Indiana Department of Environmental Management
Compliance 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 maintain and implement Preventive Maintenance Plans (PMPs) 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.
- (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 F 053-16206-00052 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 one hundred (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]

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 also 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 Fugitive Particulate Matter Emission Limitations [326 IAC 6-5]

Pursuant to 326 IAC 6-5 (Fugitive Particulate Matter Emission Limitations), fugitive particulate matter emissions shall be controlled according to the plan submitted on December 6, 1996. The plan consists of:

- (a) Wet suppression of dust from unpaved roadways on an as needed basis.
- (b) Keeping the truck speed within five (5) miles per hour by posting speed limit sign.

C.8 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.9 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.10 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.11 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.12 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.13 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.14 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.15 Emergency Reduction Plans [326 IAC 1-5-2] [326 IAC 1-5-3]

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

- (a) The Permittee prepared and submitted written emergency reduction plans (ERPs) consistent with safe operating procedures on October 7, 1998.
- (b) Upon direct notification by IDEM, OAQ that a specific air pollution episode level is in effect, the Permittee shall immediately put into effect the actions stipulated in the approved ERP for the appropriate episode level. [326 IAC 1-5-3]

C.16 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.17 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.18 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.19 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.20 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) 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.21 Compliance with 40 CFR 82 and 326 IAC 22-1

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

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

SECTION D.1

EMISSIONS UNIT OPERATION CONDITIONS

Facility Description [326 IAC 2-8-4(10)]: Dry Corn Milling Operation

- (a) One (1) receiving pit, identified as Line 1 Receiving, constructed in 1983, capacity: 112,000 pounds of corn per hour.
- (b) One (1) truck receiving system, identified as RS-1, constructed in 2002, capacity 560,000 pounds of grain products per hour, consisting of the following:
 - (1) One (1) receiving conveyor, identified as RC-1, equipped with one (1) baghouse for particulate control, identified as Baghouse RS-1, exhausting to Stack RS-1;
 - (2) Three (3) receiving bins, identified as RSB-1, RSB-2, and RSB-3;
 - (3) One (1) transfer conveyor, identified as RC-2, equipped with one (1) baghouse for particulate control, identified as Baghouse RS-1, exhausting to Stack RS-1;
 - (4) One (1) truck receiving pit, identified as RP, equipped with one (1) baghouse for particulate control, identified as Baghouse RS-1, exhausting to Stack RS-1;
- (c) Three (3) storage bins, identified as M-1, M-2, and M-3, constructed in 1983, capacity: 120,000 pounds of grain products, each.
- (d) Fifteen (15) storage bins, identified as 1-1 through 1-4, 2-1 through 2-4, 3-1 through 3-4, and 4-1 through 4-3, constructed in 1983, capacity: 50,000 pounds of grain products, each.
- (e) One (1) storage bin, identified as Temper, constructed in 1983, capacity: 20,000 pounds of grain products.
- (f) Five (5) storage bins, identified as C-1, C-2, C-3, and C-4, constructed in 1983, and C-5, constructed in 2001, capacity: 560,000 pounds of corn, each.
- (g) One (1) precleaning/handling operation, identified as Line 1 Precleaning, constructed in 1983, capacity: 25,760 pounds of corn per hour.
- (h) One (1) precleaning/handling operation, identified as Line 2 Precleaning, constructed in 2001, capacity: 25,760 pounds of corn per hour.
- (i) One (1) grain handling and cleaning operation, identified as Line 1 Cleaning, constructed in 1983, equipped with one (1) baghouse for particulate control, identified as A/B ch, initially exhausting to the Milling Building which then exhausts to general building ventilation (Stacks M-1, M-2 and M-3), capacity: 25,760 pounds of corn per hour.
- (j) One (1) grain handling and cleaning operation, identified as Line 2 Cleaning, constructed in 2001, equipped with a baghouse, identified as CH-1, exhausting to Stack CH-1, capacity: 25,760 pounds of grain products per hour.
- (k) One (1) meal drying operation, identified as Line 1 Drying, constructed in 1983, equipped with three (3) rotary dryers, identified as Meal, Grits, and Cones Dryers and three (3) cyclones for particulate control, identified as D-1, D-2, and D-3, each initially exhausting to an additional cyclone, identified as D-8 which then exhausts to Stack D-8, capacity: 25,760 pounds of grain per hour.

Facility Description [326 IAC 2-8-4(10)]: Dry Corn Milling Operation (continued)

- (l) One (1) meal drying operation, identified as Line 2 Drying, constructed in 2001, capacity 25,760 pounds of grain products per hour, consisting of the following:
 - (1) One (1) meal rotary dryer, identified as D4, equipped with one (1) cyclone for particulate control, identified as D-4, then exhausting to the cyclone identified as D-7, which then exhausts to Stack D-7;
 - (2) One (1) grits rotary dryer, identified as D5, equipped with one (1) cyclone for particulate control, identified as D-5, then exhausting to the cyclone identified as D-7, which then exhausts to Stack D-7; and
 - (3) One (1) cones rotary dryer, identified as D6, equipped with one (1) cyclone for particulate control, identified as D-6, then exhausting to the cyclone identified as D-7, which then exhausts to Stack D-7.
- (m) One (1) cooling operation, identified as Line 1 Cooling, constructed in 1983, equipped with three (3) coolers, identified as Meal, Grits, and Cones Coolers and three (3) baghouses for particulate control, identified as C-1, C-2, and C-3, initially exhausting to the Milling Building which then exhausts to general building ventilation (Stacks M-1, M-2 and M-3), capacity: 25,760 pounds of grain products per hour.
- (n) One (1) cooling operation, identified as Line 2 Cooling, constructed in 2001, equipped with three (3) coolers, identified as Meal, Grits, and Cones Coolers and three (3) baghouses for particulate control, identified as C-4, C-5, and C-6, with C-4 and C-5 exhausting to Stacks C-4 and C-5 and C-6 initially exhausting to the Milling Building which then exhausts to general building ventilation (Stacks M-1, M-2 and M-3), capacity: 25,760 pounds of grain products per hour.
- (o) One (1) milling operation, identified as Line 1 Milling, constructed in 1983, equipped with six (6) baghouses for particulate control, identified as C asp, A/B asp, A plf, B plf, C plf, and A/B feed, initially exhausting to the Milling Building which then exhausts to general building ventilation (Stacks M-1, M-2 and M-3), capacity: 25,760 pounds of corn per hour. This line includes:
 - (1) One (1) sifting operation, identified as Line 1 Sifting, constructed in 1998, capacity: 16,016 pound of grain products per hour;
 - (2) One (1) grinding operation, identified as Line 1 Grinding, constructed in 1998, capacity: 16,016 pounds of grain per hour; and
 - (3) One (1) aspiration operation, identified as Line 1 Aspiration, constructed in 1998, capacity: 3,500 actual cubic feet of air per minute.
- (p) One (1) milling line, identified as Line 2 Milling, constructed in 2001, capacity: 25,760 pounds of corn per hour, consisting of the following: Three (3) roller mills, eight (8) aspirators, and two (2) sifters, equipped with two (2) baghouses for particulate control, identified as MVSA and P-1, exhausting to Stacks MVSA and P-1, respectively.
- (q) One (1) hammermill, constructed in 2001, equipped with a baghouse for particulate control, identified as GSF, exhausting to Stack GSF, capacity: 25,760 pounds of corn per hour.
- (r) One (1) conveying operation, constructed in 2001, equipped with a baghouse for particulate control, identified as FC-1, exhausting to Stack FC-1, capacity: 25,760 pounds of corn per hour.

Facility Description [326 IAC 2-8-4(10)]: Dry Corn Milling Operation (continued)

- (s) One (1) loading and shipping operation, identified as Line 1 Loading, constructed in 1983, equipped with a baghouse, identified as TLF, exhausting to Stack TLF, capacity 51,520 pounds of grain products per hour.
- (t) One (1) loading and shipping operation, identified as Rail Feed Loading, constructed in 1983, capacity 100,000 pounds of grain products per hour.
- (u) One (1) loading and shipping operation, identified as 2006 Feed Loading, constructed in 2006, equipped with two baghouses, identified as TLF and GSF, exhausting to Stacks TLF and GSF, respectively, capacity 200,000 pounds of grain products per hour.

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

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

D.1.1 FESOP and PSD Minor Limits [326 IAC 2-2] [326 IAC 2-8]

- (a) The total amount of corn received at the Line 1 Receiving shall be limited to less than 5,600 tons per twelve (12) consecutive month period, with compliance determined at the end of each month.
 - (1) PM emissions from Line 1 Receiving shall be limited to 0.18 pounds per ton of grain received.
 - (2) PM₁₀ emissions from Line 1 Receiving shall be limited to 0.059 pounds per ton of grain received.
- (b) The total amount of corn received at the Truck Receiving shall be limited to less than 225,680 tons per twelve (12) consecutive month period, with compliance determined at the end of each month.
 - (1) PM emissions from Truck Receiving shall be limited to 0.018 pounds per ton of grain received.
 - (2) PM₁₀ emissions from Truck Receiving shall be limited to 0.0059 pounds per ton of grain received.
- (c) The total amount of corn loaded at the Rail Feed Loading shall be limited to less than 10,000 tons per twelve (12) consecutive month period, with compliance determined at the end of each month.
 - (1) PM emissions from the Rail Feed Loading shall be limited to 0.027 pounds per ton of grain loaded.
 - (2) PM₁₀ emissions from the Rail Feed Loading shall be limited to 0.0022 pounds per ton of grain loaded.
- (d) Pursuant to F 053-7235-00052, issued on July 8, 1998, and in order to ensure that this source emits less than two hundred fifty (250) tons per year of PM, and less than one hundred (100) tons per year of PM₁₀, the following hourly limits shall apply as specified below:

Facility	PM Limit (lbs/hour)	PM₁₀ Limit (lbs/hour)
Line 1 Cleaning Cleaninghouse Baghouse A/B ch	5.2	1.5
Line 2 Cleaning Cleaninghouse Baghouse CH-1	8.6	3.5
Line 1 Drying Meal Dryer Cyclone, D-1 Grits Cyclone, D-2 Cones Cyclone, D-3 (ALL CONTROLLED BY CYCLONE D-8)	2.28	3.6
Line 2 Drying Meal Dryer Cyclone, D-4 Grits Dryer Cyclone, D-5 Cones Dryer Cyclone, D-6 (ALL CONTROLLED BY CYCLONE D-7)	2.46	1.9
Line 1 Cooling Meal Cooler Baghouse, C-1 Grits Cooler Baghouse, C-2 Cones Cooler Baghouse, C-3	2.28 2.0 0.86	0.68 0.6 0.27
Line 2 Cooling Meal Cooler Baghouse, C-4 Grit Cooler Baghouse, C-5 Cones Cooler, C-6	1.5 1.5 1.4	0.5 0.5 0.72
Line 1 Milling Pneumatic Lift Baghouse, A plf Pneumatic Lift Baghouse, B plf Pneumatic Lift Baghouse, C plf Aspirator Baghouse, A/B asp General Aspiration Baghouse, C asp Feed Baghouse, A/B feed	1.7 0.86 1.09 4.0 3.15 1.5	0.50 0.25 0.32 1.2 0.90 0.40
Line 2 Milling Pneumatic Lift Baghouse, P-1 General Suction Baghouse, GSF Aspirator Baghouse, MVSA Feed Collection Baghouse, FC-1	3.6 0.52 6.3 2.2	1.06 0.15 1.88 0.65
Loading/Shipping Truck Loadout Baghouse, TLF	0.80	0.25

Compliance with these limits renders the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) and 326 IAC 2-7 (Part 70) not applicable.

D.1.2 Particulate [326 IAC 6-3-2]

Pursuant to 326 IAC 6-3-2, the allowable particulate emission rate from each of the facilities listed in the following table shall not exceed the pound per hour value when operating at the specified process weight rate:

Unit ID/ Process	Process Weight Rate (tons/hr)	Allowable Particulate Emission Rate (lbs/hr)
Line 1 Receiving (fugitive)	56	45.64
Truck Receiving (Baghouse RS-1)	280	62.22
Line 1 Precleaning (fugitive)	12.88	22.72
Line 2 Precleaning (fugitive)	12.88	22.72
Line 1 Cleaning (Baghouse A/B ch)	12.88	22.72
Line 2 Cleaning (Baghouse CH-1)	12.88	22.72
Line 1 Drying (Stack D-8)	12.88	22.72
Line 2 Drying (Stack D-7)	12.88	22.72
Line 1 Cooling (Baghouses C-1, C-2 and C-3)	12.88	22.72
Line 2 Cooling (Baghouses C-4, C-5 and C-6)	12.88	22.72
Line 1 Milling (Baghouses A plf, B plf, C plf, A/B asp, C asp and A/B feed)	12.88	22.72
Line 2 Milling (Baghouses MVSA, P-1, FC-1 and GSF)	12.88	22.72
Loading and Shipping (Baghouse TLF)	25.76	36.15
Rail Feed Loading (fugitive)	50	44.57

These limitations are based on 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:

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

and

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:

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

When the process weight rate exceeds two hundred (200) tons per hour, the allowable emission may exceed that calculated by the above equation, provided the concentration of particulate in the discharge gases to the atmosphere is less than one-tenth (0.10) pound per one thousand (1,000) pounds of gases.

D.1.3 Preventive Maintenance Plan [326 IAC 2-8-4(9)]

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

Compliance Determination Requirements

D.1.4 Particulate Control [326 IAC 2-7-6(6)]

- (a) Pursuant to FESOP 053-7235-00052, issued on July 8, 1998, and in order to comply with Condition D.1.1, the control equipment for particulate control shall be in operation and control emissions from the facilities at all times that the facilities 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 [326 IAC 2-8-4] [326 IAC 2-8-5(a)(1)]

D.1.5 Visible Emissions Notations

- (a) Visible emission notations of Stacks RS-1, M-1, M-2, M-3, CH-1, D-8, D-7, MVSA, P-1, GSF, FC-1 and TLF shall be performed once per day during normal daylight operations. A trained employee shall record whether emissions are normal or abnormal.
- (b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.
- (c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.
- (d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.
- (e) If abnormal emissions are observed, the Permittee shall take reasonable response steps 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.1.6 Parametric Monitoring [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]

- (a) The Permittee shall record the pressure drop across the control devices used in conjunction with the dry corn milling operation at least once per day when the associated processes are in operation. When for any one reading, the pressure drop across baghouse P-1 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. When for any one reading, the pressure drop across cyclone D-1 or baghouses FC-1, MVSA, C-4, CH-1, A/B ch, A plf, A/B asp, C asp or C-5 is outside the normal range of 2.0 and 8.0 inches of water or a range established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions or Exceedances. When for any one reading, the pressure drop across cyclones D-2 through D-6, or baghouses RS-1, GSF, TLF, C-1, C-2, B plf or C plf is outside the normal range of 1.0 and 4.0 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. When for any one reading, the pressure drop across baghouses A/B feed, C-3, or C-6 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.1.7 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.

D.1.8 Cyclone Failure Detection

- (a) For a cyclone 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 cyclone 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).

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

D.1.9 Record Keeping Requirements

- (a) To document compliance with Condition D.1.5, the Permittee shall maintain a daily record of visible emission notations of the process stack exhausts (Stacks RS-1, M-1, M-2, M-3, CH-1, D-8, D-7, MVSA, P-1, GSF, FC-1 and TLF). 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 milling operation did not operate that day).
- (b) To document compliance with Condition D.1.6, the Permittee shall maintain daily records of the pressure drop across the cyclones and baghouses controlling the milling process. 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 milling operation did not operate that day).
- (c) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

D.1.10 Reporting Requirements

A quarterly summary of the information to document compliance with Conditions D.1.1(a) and D.1.1(b) 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).

SECTION D.2

FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-8-4(10)]: Insignificant Activities

- (a) Natural gas-fired combustion sources with heat input equal to or less than ten million (10,000,000) British thermal units per hour; and Propane for liquefied petroleum gas, or butane-fired combustion sources with heat input equal to or less than six million (6,000,000) British thermal units per hour [326 IAC 6-2-4]:
- (1) One (1) natural gas-fired boiler, identified as B1, constructed after September 21, 1983, utilizing liquid petroleum gas as a back-up fuel, heat input capacity: 1.67 million British thermal units per hour; and
 - (2) One (1) natural gas-fired boiler, identified as B2, constructed in 1998, utilizing liquid petroleum gas as a back-up fuel, heat input capacity: 4.19 million British thermal units per hour.

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

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

D.2.1 Particulate Emission Limitations for Sources of Indirect Heating [326 IAC 6-2-4]

- (a) Pursuant to 326 IAC 6-2-4 (Particulate Emission Limitations for Sources of Indirect Heating: Emission limitations for facilities specified in 326 IAC 6-2-1(d)), the particulate emissions from B1 shall not exceed 0.6 pound per million British thermal units heat input (lb/MMBtu).
- (b) Pursuant to 326 IAC 6-2-4 (Particulate Emission Limitations for Sources of Indirect Heating: Emission limitations for facilities specified in 326 IAC 6-2-1(d)), the particulate emissions from B2 shall not exceed 0.6 pound per million British thermal units heat input (lb/MMBtu).

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

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

Source Name: Agricor, Inc.
Source Address: 1626 South Joaquin Drive, Marion, Indiana 46952
Mailing Address: P.O. Box 807, Marion, Indiana 46952
FESOP No.: F 053-16206-00052

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: Agricor, Inc.
Source Address: 1626 South Joaquin Drive, Marion, Indiana 46952
Mailing Address: P.O. Box 807, Marion, Indiana 46952
FESOP No.: F 053-16206-00052

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: Agricor, Inc.
Source Address: 1626 South Joaquin Drive, Marion, Indiana 46952
Mailing Address: P.O. Box 807, Marion, Indiana 46952
FESOP No.: F 053-16206-00052
Facility: Line 1 Receiving
Parameter: Tons of corn received
Limit: Less than 5,600 tons per twelve (12) consecutive month period, with compliance determined at the end of each month

YEAR: _____

Month	Tons of Corn Received	Tons of Corn Received	Tons of Corn Received
	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: Agricor, Inc.
Source Address: 1626 South Joaquin Drive, Marion, Indiana 46952
Mailing Address: P.O. Box 807, Marion, Indiana 46952
FESOP No.: F 053-16206-00052
Facility: Truck Receiving
Parameter: Tons of corn received
Limit: Less than 225,680 tons per twelve (12) consecutive month period, with compliance determined at the end of each month

YEAR: _____

Month	Tons of Corn Received	Tons of Corn Received	Tons of Corn Received
	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: Agricor, Inc.
Source Address: 1626 South Joaquin Drive, Marion, Indiana 46952
Mailing Address: P.O. Box 807, Marion, Indiana 46952
FESOP No.: F 053-16206-00052

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**

Technical Support Document (TSD) for a
Federally Enforceable State Operating Permit (FESOP) Renewal

Source Background and Description

Source Name:	Agricor, Inc.
Source Location:	1626 South Joaquin Drive, Marion, Indiana 46952
County:	Grant
SIC Code:	2041
Operation Permit No.:	F 053-7235-00052
Operation Permit Issuance Date:	July 8, 1998
Permit Renewal No.:	F 053-16206-00052
Permit Reviewer:	Edward A. Longenberger/MES

The Office of Air Quality (OAQ) has reviewed a FESOP renewal application from Agricor, Inc. relating to the operation of a dry corn milling operation.

Permitted Emission Units and Pollution Control Equipment

The source consists of the following permitted emission units and pollution control devices:

- (a) One (1) receiving pit, identified as Line 1 Receiving, constructed in 1983, capacity: 112,000 pounds of corn per hour.
- (b) One (1) truck receiving system, identified as RS-1, constructed in 2002, capacity 560,000 pounds of grain products per hour, consisting of the following:
 - (1) One (1) receiving conveyor, identified as RC-1, equipped with one (1) baghouse for particulate control, identified as Baghouse RS-1, exhausting to Stack RS-1;
 - (2) Three (3) receiving bins, identified as RSB-1, RSB-2, and RSB-3;
 - (3) One (1) transfer conveyor, identified as RC-2, equipped with one (1) baghouse for particulate control, identified as Baghouse RS-1, exhausting to Stack RS-1;
 - (4) One (1) truck receiving pit, identified as RP, equipped with one (1) baghouse for particulate control, identified as Baghouse RS-1, exhausting to Stack RS-1;
- (c) Three (3) storage bins, identified as M-1, M-2, and M-3, constructed in 1983, capacity: 120,000 pounds of grain products, each.
- (d) Fifteen (15) storage bins, identified as 1-1 through 1-4, 2-1 through 2-4, 3-1 through 3-4, and 4-1 through 4-3, constructed in 1983, capacity: 50,000 pounds of grain products, each.
- (e) One (1) storage bin, identified as Temper, constructed in 1983, capacity: 20,000 pounds of grain products.
- (f) Five (5) storage bins, identified as C-1, C-2, C-3, and C-4, constructed in 1983, and C-5, constructed in 2001, capacity: 560,000 pounds of corn, each.

- (g) One (1) precleaning/handling operation, identified as Line 1 Precleaning, constructed in 1983, capacity: 25,760 pounds of corn per hour.
- (h) One (1) precleaning/handling operation, identified as Line 2 Precleaning, constructed in 2001, capacity: 25,760 pounds of corn per hour.
- (i) One (1) grain handling and cleaning operation, identified as Line 1 Cleaning, constructed in 1983, equipped with one (1) baghouse for particulate control, identified as A/B ch, initially exhausting to the Milling Building which then exhausts to general building ventilation (Stacks M-1, M-2 and M-3), capacity: 25,760 pounds of corn per hour.
- (j) One (1) grain handling and cleaning operation, identified as Line 2 Cleaning, constructed in 2001, equipped with a baghouse, identified as CH-1, exhausting to Stack CH-1, capacity: 25,760 pounds of grain products per hour.
- (k) One (1) meal drying operation, identified as Line 1 Drying, constructed in 1983, equipped with three (3) rotary dryers, identified as Meal, Grits, and Cones Dryers and three (3) cyclones for particulate control, identified as D-1, D-2, and D-3, each initially exhausting to an additional cyclone, identified as D-8 which then exhausts to Stack D-8, capacity: 25,760 pounds of grain per hour.
- (l) One (1) meal drying operation, identified as Line 2 Drying, constructed in 2001, capacity 25,760 pounds of grain products per hour, consisting of the following:
 - (1) One (1) meal rotary dryer, identified as D4, equipped with one (1) cyclone for particulate control, identified as D-4, then exhausting to the cyclone identified as D-7, which then exhausts to Stack D-7;
 - (2) One (1) grits rotary dryer, identified as D5, equipped with one (1) cyclone for particulate control, identified as D-5, then exhausting to the cyclone identified as D-7, which then exhausts to Stack D-7; and
 - (3) One (1) cones rotary dryer, identified as D6, equipped with one (1) cyclone for particulate control, identified as D-6, then exhausting to the cyclone identified as D-7, which then exhausts to Stack D-7.
- (m) One (1) cooling operation, identified as Line 1 Cooling, constructed in 1983, equipped with three (3) coolers, identified as Meal, Grits, and Cones Coolers and three (3) baghouses for particulate control, identified as C-1, C-2, and C-3, initially exhausting to the Milling Building which then exhausts to general building ventilation (Stacks M-1, M-2 and M-3), capacity: 25,760 pounds of grain products per hour.
- (n) One (1) cooling operation, identified as Line 2 Cooling, constructed in 2001, equipped with three (3) coolers, identified as Meal, Grits, and Cones Coolers and three (3) baghouses for particulate control, identified as C-4, C-5, and C-6, with C-4 and C-5 exhausting to Stacks C-4 and C-5 and C-6 initially exhausting to the Milling Building which then exhausts to general building ventilation (Stacks M-1, M-2 and M-3), capacity: 25,760 pounds of grain products per hour.
- (o) One (1) milling operation, identified as Line 1 Milling, constructed in 1983, equipped with six (6) baghouses for particulate control, identified as C asp, A/B asp, A plf, B plf, C plf, and A/B feed, initially exhausting to the Milling Building which then exhausts to general building ventilation (Stacks M-1, M-2 and M-3), capacity: 25,760 pounds of corn per hour.

This line includes:

- (1) One (1) sifting operation, identified as Line 1 Sifting, constructed in 1998, capacity: 16,016 pound of grain products per hour;
 - (2) One (1) grinding operation, identified as Line 1 Grinding, constructed in 1998, capacity: 16,016 pounds of grain per hour; and
 - (3) One (1) aspiration operation, identified as Line 1 Aspiration, constructed in 1998, capacity: 3,500 actual cubic feet of air per minute.
- (p) One (1) milling line, identified as Line 2 Milling, constructed in 2001, capacity: 25,760 pounds of corn per hour, consisting of the following: Three (3) roller mills, eight (8) aspirators, and two (2) sifters, equipped with two (2) baghouses for particulate control, identified as MVSA and P-1, exhausting to Stacks MVSA and P-1, respectively.
- (q) One (1) hammermill, constructed in 2001, equipped with a baghouse for particulate control, identified as GSF, exhausting to Stack GSF, capacity: 25,760 pounds of corn per hour.
- (r) One (1) conveying operation, constructed in 2001, equipped with a baghouse for particulate control, identified as FC-1, exhausting to Stack FC-1, capacity: 25,760 pounds of corn per hour.
- (s) One (1) loading and shipping operation, identified as Line 1 Loading, constructed in 1983, equipped with a baghouse, identified as TLF, exhausting to Stack TLF, capacity 51,520 pounds of grain products per hour.
- (t) One (1) loading and shipping operation, identified as Rail Feed Loading, constructed in 1983, capacity 100,000 pounds of grain products per hour.
- (u) One (1) loading and shipping operation, identified as 2006 Feed Loading, constructed in 2006, equipped with two baghouses, identified as TLF and GSF, exhausting to Stacks TLF and GSF, respectively, capacity 200,000 pounds of grain products per hour.

Unpermitted Emission Units and Pollution Control Equipment

There are no unpermitted emission units operating at this source during this review process.

Insignificant Activities

The source also consists of the following insignificant activities, as defined in 326 IAC 2-7-1(21):

- (a) Natural gas-fired combustion sources with heat input equal to or less than ten million (10,000,000) British thermal units per hour; and Propane for liquefied petroleum gas, or butane-fired combustion sources with heat input equal to or less than six million (6,000,000) British thermal units per hour [326 IAC 6-2-4].
 - (1) One (1) natural gas-fired boiler, identified as B1, constructed after September 21, 1983, utilizing liquid petroleum gas as a back-up fuel, heat input capacity: 1.67 million British thermal units per hour; and

- (2) One (1) natural gas-fired boiler, identified as B2, constructed in 1998, utilizing liquid petroleum gas as a back-up fuel, heat input capacity: 4.19 million British thermal units per hour.
- (b) Combustion source flame safety purging on startup.
- (c) Storage tanks with capacity less than or equal to 1,000 gallons and annual throughputs less than 12,000 gallons:

One (1) liquid petroleum gas storage tank, constructed in 1993, capacity: 1,000 gallons.
- (d) Vessels storing lubricating oil, hydraulic oils, machining oils, and machining fluids.
- (e) Closed loop heating and cooling systems.
- (f) Solvent recycling systems with batch capacity less than or equal to 100 gallons.
- (g) Blowdown for any of the following: sight glass; boiler; compressors; pumps; and cooling tower.
- (h) Farm operations.

Existing Approvals

The source has been operating under the previous FESOP 053-7235-00052, issued on July 8, 1998, and the following amendments and revisions:

- (a) AA 053-12013-00052, issued on April 6, 2000;
- (b) SPR 053-12323-00052, issued on February 14, 2001;
- (c) MPR 053-15028-00052, issued on January 25, 2002; and
- (d) AA 053-22742-00052, issued on March 20, 2006.

All terms and conditions from previous approvals were either incorporated as originally stated, revised or deleted by this FESOP. The following terms and conditions have been revised:

MPR 053-15028-00052 issued on January 25, 2002.

Condition D.1.3: The requirement to limit the fugitive emissions from the truck receiving system to less than 5% opacity, pursuant to 40 CFR 60, Subpart DD.

Reason not incorporated: As explained in the Federal Rule Applicability section of this TSD, this dry corn milling operation is not subject to the requirements of 40 CFR 60, Subpart DD because it is not a grain terminal elevator or a grain storage elevator, as defined in 40 CFR 60.301.

Enforcement Issue

There are no enforcement actions pending.

Recommendation

The staff recommends to the Commissioner that the FESOP renewal 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 administratively complete FESOP renewal application for the purposes of this review was received on October 7, 2002. Additional information was received on October 12, 2004.

Emission Calculations

See pages 1 through 5 of Appendix A of this document for detailed emission calculations.

Unrestricted Potential Emissions

This table reflects the unrestricted potential emissions of the source, excluding the emission limits that were contained in the previous FESOP.

Pollutant	Unrestricted Potential Emissions (tons/yr)
PM	8,568
PM ₁₀	4,194
SO ₂	0.041
VOC	0.141
CO	2.15
NO _x	5.18

HAPs	Unrestricted Potential Emissions (tons/yr)
Benzene	0.00005
Dichlorobenzene	0.00003
Formaldehyde	0.002
Hexane	0.046
Toluene	0.00009
Lead	0.00001
Cadmium	0.00003
Chromium	0.00004
Manganese	0.00001
Nickel	0.00005
Total	0.048

The potential to emit (as defined in 326 IAC 2-7-1(29)) of PM₁₀ is greater than one hundred (100) tons per year. Therefore, the source is subject to the provisions of 326 IAC 2-7. The source will continue to operate under a FESOP because the source will continue to limit its emissions below the Title V levels.

Potential to Emit After Issuance

The source has opted to remain a FESOP source. 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 this FESOP and only to the extent that the effect of the control equipment is made practically enforceable in the permit.

Process/emission unit	Potential To Emit (tons/year)						
	PM	PM ₁₀	SO ₂	VOC	CO	NO _x	HAPs
Line 1 Receiving ^(a)	0.504	0.165	-	-	-	-	-
Truck Receiving ^(b)	2.04	0.667	-	-	-	-	-
Line 1 Precleaning/handling	3.44	1.92	-	-	-	-	-
Line 2 Precleaning/handling	3.44	1.92	-	-	-	-	-
Line 1 Cleaning A/B ch	22.78	6.57	-	-	-	-	-
Line 2 Cleaning CH-1	37.67	15.33	-	-	-	-	-
Line 1 Drying D-8	9.99	15.77	-	-	-	-	-
Line 2 Drying D-7	10.77	8.32	-	-	-	-	-
Line 1 Cooling							
C-1	9.99	2.98	-	-	-	-	-
C-2	8.76	2.63	-	-	-	-	-
C-3	3.77	1.18	-	-	-	-	-
Line 2 Cooling							
C-4	6.57	2.19	-	-	-	-	-
C-5	6.57	2.19	-	-	-	-	-
C-6	6.13	3.15	-	-	-	-	-
Line 1 Milling							
A plf	7.45	2.19	-	-	-	-	-
B plf	3.77	1.10	-	-	-	-	-
C plf	4.77	1.40	-	-	-	-	-

Process/emission unit	Potential To Emit (tons/year)						
	PM	PM ₁₀	SO ₂	VOC	CO	NO _x	HAPs
A/B asp	17.52	5.26	-	-	-	-	-
C asp	13.80	3.94	-	-	-	-	-
A/B feed	6.57	1.75	-	-	-	-	-
Line 2 Milling							
P-1	15.77	4.64	-	-	-	-	-
GSF	2.28	0.657	-	-	-	-	-
MVSA	27.59	8.23	-	-	-	-	-
FC-1	9.64	2.85	-	-	-	-	-
Loading and Shipping							
TLF	3.50	1.10	-	-	-	-	-
Rail Feed ^(c) (uncontrolled)	0.135	0.011	-	-	-	-	-
Insignificant Activities	3.26	1.146	0.041	0.141	2.15	5.18	0.048
Total Emissions	Less than 248.48	Less than 99.26	0.041	0.141	2.15	5.18	0.048

“-“ represents zero or negligible emissions

- (a) The total amount of corn received at the Line 1 Receiving shall be limited to less than 5,600 tons per twelve (12) consecutive month period, with compliance determined at the end of each month. PM emissions from Line 1 Receiving shall be limited to 0.18 pounds per ton of grain received, and PM₁₀ emissions from Line 1 Receiving shall be limited to 0.059 pounds per ton of grain received.
- (b) The total amount of corn received at the Truck Receiving shall be limited to less than 225,680 tons per twelve (12) consecutive month period, with compliance determined at the end of each month. PM emissions from Truck Receiving shall be limited to 0.018 pounds per ton of grain received, and PM₁₀ emissions from Truck Receiving shall be limited to 0.0059 pounds per ton of grain received.
- (c) The total amount of corn loaded at the Rail Feed Loading shall be limited to less than 10,000 tons per twelve (12) consecutive month period, with compliance determined at the end of each month. PM emissions from the Rail Feed Loading shall be limited to 0.027 pounds per ton of grain loaded, and PM₁₀ emissions from the Rail Feed Loading shall be limited to 0.0022 pounds per ton of grain loaded.
- (d) The remaining PM and PM₁₀ totals represent the hourly limits in the 326 IAC 2-2 and 326 IAC 2-8-4 sections of this TSD, extrapolated to 8,760 hours per year.

These limits will ensure that the requirements of 326 IAC 2-2 and 326 IAC 2-7 are not applicable.

County Attainment Status

The source is located in Grant County.

Pollutant	Status
PM _{2.5}	Attainment
PM ₁₀	Attainment
SO ₂	Attainment
NO ₂	Attainment
8-Hour Ozone	Attainment
CO	Attainment
Lead	Attainment

- (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 ozone. Grant County has been designated as attainment or unclassifiable for ozone. Therefore, VOC and NO_x emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2. See the State Rule Applicability - Entire Source section of this document.
- (b) Grant County has been classified as unclassifiable or attainment for PM_{2.5}. U.S. EPA has not yet established the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2 for PM_{2.5} emissions. Therefore, until the U.S.EPA adopts specific provisions for PSD review for PM_{2.5} emissions, it has directed states to regulate PM₁₀ emissions as a surrogate for PM_{2.5} emissions. See the State Rule Applicability - Entire Source Section of this document.
- (c) Grant County has been classified as attainment or unclassifiable in Indiana for all remaining 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 - Entire Source section of this document.
- (d) On October 25, 2006, the Indiana Air Pollution Control Board finalized a rule revision to 326 IAC 1-4-1 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.
- (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 applicability.

Source Status

Existing Source PSD, Part 70, or FESOP Definition (emissions after controls, based on 8760 hours of operation per year at rated capacity and/or as otherwise limited):

Pollutant	Emissions (tons/yr)
PM	Less than 248.48
PM ₁₀	Less than 99.26
SO ₂	0.041
VOC	0.141
CO	2.15
NO _x	5.18
Single HAP (Hexane)	0.046
Combination HAPs	0.048

- (a) This existing source is **not** a major stationary source because no attainment regulated pollutant is emitted at a rate of two-hundred fifty (250) tons per year or greater and it is not in one of the twenty-eight (28) listed source categories.
- (b) The existing source emissions listed in the above table were obtained from pages 1 through 5 of Appendix A of this document.

Federal Rule Applicability

- (a) The requirements of the New Source Performance Standard, 326 IAC 12 (40 CFR Part 60.300, Subpart DD, Standards of Performance for Grain Elevators) are not included in the permit for this dry corn milling operation. This rule addresses facilities at a grain terminal elevator or a grain storage elevator. A grain terminal elevator is defined in 40 CFR 60.301 as having a permanent storage capacity of more than 88,100 cubic meters (2,500,000 bushels). A grain storage elevator is defined in 40 CFR 60.301 as having a permanent grain storage capacity of 35,200 cubic meters (1 million bushels). Agricor has a permanent storage capacity of only 1,965 tons of corn (70,179 bushels).
- (b) The requirements of the New Source Performance Standards for Steam Generating Units, 326 IAC 12 (40 CFR Part 60, Subparts D, Da, Db or Dc) are not included in the permit for either of the insignificant boilers (B1 or B2). The boilers each have a heat input capacity less than ten (10) million British thermal units per hour.
- (c) There are no National Emission Standards for Hazardous Air Pollutants (NESHAP)(326 IAC 14, 20 and 40 CFR Part 61, 63) included in the permit for this source.

State Rule Applicability – Entire Source

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

- (a) The total amount of corn received at the Line 1 Receiving shall be limited to less than 5,600 tons per twelve (12) consecutive month period, with compliance determined at the end of each month. PM emissions from Line 1 Receiving shall be limited to 0.18 pounds per ton of grain received, and PM₁₀ emissions from Line 1 Receiving shall be limited to 0.059 pounds per ton of grain received. The pound per ton limits are based on the emission factors in AP-42, Chapter 9.9.1 for straight truck receiving, which generates the worst-case particulate emissions from receiving operations.

- (b) The total amount of corn received at the Truck Receiving shall be limited to less than 225,680 tons per twelve (12) consecutive month period, with compliance determined at the end of each month. PM emissions from Truck Receiving shall be limited to 0.018 pounds per ton of grain received, and PM₁₀ emissions from Truck Receiving shall be limited to 0.0059 pounds per ton of grain received. The pound per ton limits are based on the emission factors in AP-42, Chapter 9.9.1 for straight truck receiving, which generates the worst-case particulate emissions from receiving operations, and 89.98% control efficiency for the baghouse (RS-1). An IDEM approved and witnessed stack test performed on September 4, 2002 shows that the Truck Receiving operation can comply with these limits.
- (c) The total amount of corn loaded at the Rail Feed Loading shall be limited to less than 10,000 tons per twelve (12) consecutive month period, with compliance determined at the end of each month. PM emissions from the Rail Feed Loading shall be limited to 0.027 pounds per ton of grain loaded, and PM₁₀ emissions from the Rail Feed Loading shall be limited to 0.0022 pounds per ton of grain loaded. The pound per ton limits are based on the emission factors in AP-42, Chapter 9.9.1 for railcar loading. The Rail Feed Loading is uncontrolled.
- (d) Pursuant to F 053-7235-00052, issued on July 8, 1998, and in order to ensure that this source emits less than two hundred fifty (250) tons per year of PM, and less than one hundred (100) tons per year of PM₁₀, the following hourly limits shall apply as specified below:

Facility	PM Limit (lbs/hour)	PM ₁₀ Limit (lbs/hour)
Line 1 Cleaning Cleaninghouse Baghouse, A/B ch	5.2	1.5
Line 2 Cleaning Cleaninghouse Baghouse, CH-1	8.6	3.5
Line 1 Drying Meal Dryer Cyclone, D-1 Grit Cyclone, D-2 Cones Cyclone, D-3 (ALL CONTROLLED BY CYCLONE D-8)	2.28	3.6
Line 2 Drying Meal Dryer Cyclone, D-4 Grit Dryer Cyclone, D-5 Cones Dryer Cyclone, D-6 (ALL CONTROLLED BY CYCLONE D-7)	2.46	1.9
Line 1 Cooling Meal Cooler Baghouse, C-1 Grit Cooler Baghouse, C-2 Cones Cooler Baghouse, C-3	2.28 2.0 0.86	0.68 0.6 0.27
Line 2 Cooling Meal Cooler Baghouse, C-4 Grit Cooler Baghouse, C-5 Cones Cooler, C-6	1.5 1.5 1.4	0.5 0.5 0.72

Facility	PM Limit (lbs/hour)	PM ₁₀ Limit (lbs/hour)
Line 1 Milling		
Pneumatic Lift Baghouse, A plf	1.7	0.50
Pneumatic Lift Baghouse, B plf	0.86	0.25
Pneumatic Lift Baghouse, C plf	1.09	0.32
Aspirator Baghouse, A/B asp	4.0	1.2
General Aspiration Baghouse, C asp	3.15	0.90
Feed Baghouse, A/B feed	1.5	0.40
Line 2 Milling		
Pneumatic Lift Baghouse, P-1	3.6	1.06
General Suction Baghouse, GSF	0.52	0.15
Aspirator Baghouse, MVSA	6.3	1.88
Feed Collection Baghouse, FC-1	2.2	0.65
Loading/Shipping		
Truck Loadout Baghouse, TLF	0.80	0.25

Compliance with the above PM and PM₁₀ emission limits will ensure that the requirements of 326 IAC 2-2, Prevention of Significant Deterioration (PSD), are not applicable. The hourly limits were developed as a result of discussions between IDEM, OAQ and the applicant during processing of the original FESOP and subsequent permit revisions. Production limits were added during processing of this FESOP renewal in order to give the applicant more flexibility while maintaining the required overall annual emission limitations.

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)

- (a) The total amount of corn received at the Line 1 Receiving shall be limited to less than 5,600 tons per twelve (12) consecutive month period, with compliance determined at the end of each month. PM₁₀ emissions from Line 1 Receiving shall be limited to 0.059 pounds per ton of grain received. The pound per ton limits are based on the emission factors in AP-42, Chapter 9.9.1 for straight truck receiving, which generates the worst-case particulate emissions from receiving operations.
- (b) The total amount of corn received at the Truck Receiving shall be limited to less than 225,680 tons per twelve (12) consecutive month period, with compliance determined at the end of each month. PM₁₀ emissions from Truck Receiving shall be limited to 0.0059 pounds per ton of grain received. The pound per ton limit is based on the emission factor in AP-42, Chapter 9.9.1 for straight truck receiving, which generates the worst-case particulate emissions from receiving operations, and 89.98% control efficiency for the baghouse (RS-1). A stack test performed on September 4, 2002 shows that the Truck Receiving operation can comply with this limit.
- (c) The total amount of corn loaded at the Rail Feed Loading shall be limited to less than 10,000 tons per twelve (12) consecutive month period, with compliance determined at the end of each month. PM emissions from the Rail Feed Loading shall be limited to 0.027 pounds per ton of grain loaded, and PM₁₀ emissions from the Rail Feed Loading shall be limited to 0.0022 pounds per ton of grain loaded. The pound per ton limits are based on

the emission factors in AP-42, Chapter 9.9.1 for railcar loading. The Rail Feed Loading is uncontrolled.

- (d) Pursuant to F 053-7235-00052, issued on July 8, 1998, and in order to ensure that this source emits less than one hundred (100) tons per year of PM₁₀, the following hourly limits shall apply as specified below:

Facility	PM₁₀ Limit (lbs/hour)
Line 1 Cleaning Cleaninghouse Baghouse, A/B ch	1.5
Line 2 Cleaning Cleaninghouse Baghouse, CH-1	3.5
Line 1 Drying Meal Dryer Cyclone, D-1 Grit Cyclone, D-2 Cones Cyclone, D-3 (ALL CONTROLLED BY CYCLONE D-8)	3.6
Line 2 Drying Meal Dryer Cyclone, D-4 Grit Dryer Cyclone, D-5 Cones Dryer Cyclone, D-6 (ALL CONTROLLED BY CYCLONE D-7)	1.9
Line 1 Cooling Meal Cooler Baghouse, C-1 Grit Cooler Baghouse, C-2 Cones Cooler Baghouse, C-3	0.68 0.6 0.27
Line 2 Cooling Meal Cooler Baghouse, C-4 Grit Cooler Baghouse, C-5 Cones Cooler, C-6	0.5 0.5 0.72
Line 1 Milling Pneumatic Lift Baghouse, A plf Pneumatic Lift Baghouse, B plf Pneumatic Lift Baghouse, C plf Aspirator Baghouse, A/B asp General Aspiration, C asp Feed Baghouse, A/B feed	0.50 0.25 0.32 1.2 0.90 0.40
Line 2 Milling Pneumatic Lift Baghouse, P-1 General Suction Baghouse, GSF Aspirator Baghouse, MVSA Feed Collection Baghouse, FC-1	1.06 0.15 1.88 0.65
Loading/Shipping Truck Loadout Baghouse, TLF	0.25

Compliance with the above PM₁₀ emission limits will render the requirements of 326 IAC 2-7 (Part 70) not applicable. The hourly limits were developed as a result of discussions between IDEM, OAQ and the applicant during processing of the original FESOP and subsequent permit revisions. Production limits were added during processing of this FESOP renewal in order to give the applicant more flexibility while maintaining the required overall annual emission limitations.

326 IAC 5-1 (Opacity Limitations)

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

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

State Rule Applicability – Individual Facilities

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

Pursuant to 326 IAC 6-3-2, the allowable particulate emission rate from each of the facilities listed in the following table shall not exceed the pound per hour value when operating at the specified process weight rate:

Unit ID/ Process	Process Weight Rate (tons/hr)	Allowable Particulate Emission Rate (lbs/hr)	Uncontrolled Potential Emissions (lbs/hr)	Controlled Potential Emissions (lbs/hr)
Line 1 Receiving (fugitive)	56	45.64	14.1	NA
Truck Receiving (Baghouse RS-1)	280	62.22	50.4	5.05
Line 1 Precleaning (fugitive)	12.88	22.72	0.786	NA
Line 2 Precleaning (fugitive)	12.88	22.72	0.786	NA
Line 1 Cleaning (Baghouse A/B ch)	12.88	22.72	9.66	0.097
Line 2 Cleaning (Baghouse CH-1)	12.88	22.72	9.66	0.097
Line 1 Drying (Stack D-8)	12.88	22.72	38.6	1.93
Line 2 Drying (Stack D-7)	12.88	22.72	38.6	1.93
Line 1 Cooling (Baghouses C-1, C-2 and C-3)	12.88	22.72	23.2	0.232
Line 2 Cooling (Baghouses C-4, C-5 and C-6)	12.88	22.72	23.2	0.232

Unit ID/ Process	Process Weight Rate (tons/hr)	Allowable Particulate Emission Rate (lbs/hr)	Uncontrolled Potential Emissions (lbs/hr)	Controlled Potential Emissions (lbs/hr)
Line 1 Milling (Baghouses A plf, B plf, C plf, A/B asp, C asp and A/B feed)	12.88	22.72	902	0.902
Line 2 Milling (Baghouses MVSA, P- 1, FC-1 and GSF)	12.88	22.72	902	0.902
Loading and Shipping (Baghouse TLF)	25.76	36.15	2.22	0.222
Rail Feed Loading (fugitive)	50	44.57	1.35	NA

These limitations are based on 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:

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

and

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:

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

When the process weight rate exceeds two hundred (200) tons per hour, the allowable emission may exceed that calculated by the above equation, provided the concentration of particulate in the discharge gases to the atmosphere is less than one-tenth (0.10) pound per one thousand (1,000) pounds of gases.

Line 1 Receiving, Line 1 Precleaning, Line 2 Precleaning and Rail Feed Loading are each uncontrolled and according to the emission calculations in Appendix A, each can comply with this rule.

Truck Receiving (RS-1), Line 1 Cleaning, Line 2 Cleaning and the Loading and Shipping operation are each equipped with a particulate control device. According to the emission calculations in Appendix A, each can comply with this rule, even without the use of the control device.

According to the emission calculations in Appendix A, the remaining operations (Line 1 Drying, Line 2 Drying, Line 1 Cooling, Line 2 Cooling, Line 1 Milling and Line 2 Milling) can comply with this rule with the use of the particulate control equipment.

State Rule Applicability – Insignificant Activities

326 IAC 6-2-4 (Particulate Emissions Limitations for Facilities Constructed after September 21, 1983)

- (a) The one boiler, identified as B1, rated at 1.67 million British thermal units per hour, must comply with the requirements of 326 IAC 6-2-4. The emission limitation is based on the following equation:

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

where:

Pt = Pounds of particulate emitted per million British thermal units (lb/mmBtu) heat input

Q = Total source maximum operating capacity rating in million British thermal units per hour (mmBtu/hr) heat input. The maximum operating capacity rating is defined as the maximum capacity at which the facility is operated or the nameplate capacity, whichever is specified in the facility's permit application, except when some lower capacity is contained in the facility's operation permit; in which case, the capacity specified in the operation permit shall be used.

For boiler B1, Q = 1.67

$$Pt = 1.09/(1.67)^{0.26} = 0.95 \text{ lb/mmBtu heat input}$$

For Q less than 10 mmBtu/hr, Pt shall not exceed 0.6. Therefore, Pt = 0.6 lb/mmBtu heat input

Based on Appendix A, the worst case potential particulate emission rate from B1 is:

$$0.056 \text{ ton/yr} \times (2000 \text{ lbs/ton} / 8760 \text{ hrs/yr}) = 0.013 \text{ lb/hr} \\ (0.0013 \text{ lb/hr} / 1.67 \text{ mmBtu/hr}) = 0.008 \text{ lb PM per mmBtu}$$

The worst case particulate emissions from the one (1) boiler (B1) are 0.008 pounds per million British thermal units, which is less than the allowable of 0.6 pounds per million British thermal units. Therefore, the one (1) boiler (B1) can comply with this rule.

- (b) The one boiler, identified as B2, rated at 4.19 million British thermal units per hour, must comply with the requirements of 326 IAC 6-2-4. The emission limitation is based on the following equation:

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

where:

Pt = Pounds of particulate emitted per million British thermal units (lb/mmBtu) heat input

Q = Total source maximum operating capacity rating in million British thermal units per hour (mmBtu/hr) heat input. The maximum operating capacity rating is defined as the maximum capacity at which the facility is operated or the nameplate capacity, whichever is specified in the facility's permit application,

except when some lower capacity is contained in the facility's operation permit; in which case, the capacity specified in the operation permit shall be used.

For boiler B2, $Q = 5.86$

$$Pt = 1.09/(5.86)^{0.26} = 0.688 \text{ lb/mmBtu heat input}$$

For Q less than 10 mmBtu/hr, Pt shall not exceed 0.6. Therefore, $Pt = 0.6$ lb/mmBtu heat input

Based on Appendix A, the potential particulate emission rate from B2 is:

$$0.139 \text{ ton/yr} \times (2000 \text{ lbs/ton} / 8760 \text{ hrs/yr}) = 0.032 \text{ lb/hr}$$
$$(0.032 \text{ lb/hr} / 4.19 \text{ mmBtu/hr}) = 0.008 \text{ lb PM per mmBtu}$$

The particulate emissions from the one (1) boiler (B2) are 0.008 pounds per million British thermal units, which is less than the allowable of 0.6 pounds per million British thermal units. Therefore, the one (1) boiler (B2) can comply with this rule.

326 IAC 6-4 (Fugitive Dust Emissions)

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

326 IAC 6-5 (Fugitive Particulate Matter Emission Limitations)

Pursuant to 326 IAC 6-5-1(b), this source is subject to the requirements of 326 IAC 6-5 because the source did not receive all the necessary preconstruction approvals before December 13, 1985. Fugitive particulate matter emissions shall be controlled according to plan submitted by the applicant on December 6, 1996. The plan consists of:

- (a) Wet suppression of dust from unpaved roadways on an as needed basis.
- (b) Keeping the truck speed within five (5) miles per hour by posting speed limit sign.

Testing Requirements

IDEM approved and witnessed stack tests of CH-1, D-4, C-4 and MVSA were performed on August 14 through 17, 2001, in accordance with Condition D.1.6 of F 053-7235-00052 (as amended by SPR 053-12323-00052). These tests showed that each of the associated emission units were in compliance with the permit limitations.

An IDEM approved and witnessed stack test of the Truck Receiving operation (RS-1) was conducted on September 4, 2002. The test measured the particulate emission rate from baghouse RS-1 to be 0.036 pounds per hour, when operating at a grain throughput rate of 62,000 pounds per hour. This is equivalent to particulate emissions of 0.00116 pounds per ton, which is less than the PM limit of 0.018 pounds per ton and less than the PM_{10} limit of 0.0059 pounds per ton. Therefore, the Truck Receiving operation (RS-1) is in compliance with the permit limitations.

Each of these initial compliance tests showed compliance with the applicable permit limitations, and were not required by the permit to be repeated. No new stack tests are proposed in this FESOP Renewal Permit.

Compliance Requirements

Permits issued under 326 IAC 2-8 are required to ensure that sources can demonstrate compliance with applicable state and federal rules on a more or less continuous basis. All state and federal rules contain compliance provisions, however, these provisions do not always fulfill the requirement for a more or less continuous demonstration. When this occurs IDEM, OAQ in conjunction with the source, must develop specific conditions to satisfy 326 IAC 2-8-4. As a result, compliance requirements are divided into two sections: Compliance Determination Requirements and Compliance Monitoring Requirements.

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

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

The dry corn milling operation has applicable compliance monitoring conditions as specified below:

- (a) Visible emission notations of Stacks RS-1, M-1, M-2, M-3, CH-1, D-8, D-7, MVSA, P-1, GSF, FC-1 and TLF shall be performed once per day during normal daylight operations. A trained employee shall record whether emissions are normal or abnormal. 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. 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. 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. 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.
- (b) The Permittee shall record the pressure drop across the control devices used in conjunction with the dry corn milling operation at least once per day when the associated processes are in operation. When for any one reading, the pressure drop across baghouse P-1 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. When for any one reading, the pressure drop across cyclone D-1 or baghouses FC-1, MVSA, C-4, CH-1, A/B ch, A plf, A/B asp, C asp or C-5 is outside the normal range of 2.0 and 8.0 inches of water or a range established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions or Exceedances. When for any one reading, the pressure drop across cyclones D-2 through D-6, or baghouses RS-1, GSF, TLF, C-1, C-2, B plf or C plf is outside the normal range of 1.0 and 4.0 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. When for any one reading, the pressure drop

across baghouses A/B feed, C-3, or C-6 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.

- (c) 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).

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.

- (d) For a cyclone 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).

For a cyclone 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).

These monitoring conditions are necessary because the particulate control devices for the dry corn milling operation must operate properly to ensure compliance with 326 IAC 6-3 (Particulate Emission Limitations for Manufacturing Processes), 326 IAC 2-2 (PSD) and 326 IAC 2-8 (FESOP).

Conclusion

The operation of this dry corn milling operation shall be subject to the conditions of the FESOP 053-16206-00052.

**Appendix A: Emissions Calculations
Grain Processing**

Company Name: Agricor, Inc.
Address City IN Zip: 1626 South Joaquin Dr., Marion, Indiana 46952
Permit Number: F 053-16206-00052
Reviewer: Edward A. Longenberger
Application Date: May 30, 2007

Process	Annual Throughput (tons/yr)	PM Emission Factor (lbs/ton)	PM-10 Emission Factor (lbs/ton)	Uncontrolled PM Emissions (lbs/hr)	Controlled PM Emissions (lbs/hr)	Potential to Emit PM Before Controls (tons/yr)	Potential to Emit PM-10 Before Controls (tons/yr)	Control Efficiency (%)	Potential to Emit PM After Controls (tons/yr)	Potential to Emit PM-10 After Controls (tons/yr)
Line 1 Receiving	5,600.00	0.18	0.059	14.112	14.112	0.504	0.165	0%	0.504	0.165
Truck Receiving	225,680.00	0.18	0.059	50.4	5.05008	20.3	6.66	89.98%	2.035	0.667
Line 1 Precleaning (Includes Storage)	112,828.80	0.061	0.034	0.786	0.78568	3.44	1.92	0%	3.441	1.918
Line 2 Precleaning (Includes Storage)	112,828.80	0.061	0.034	0.786	0.78568	3.44	1.92	0%	3.441	1.918
Line 1 Cleaning	112,828.80	0.075	0.019	9.660	0.0966	42.31	10.72	99.00%	0.423	0.107
Line 2 Cleaning	112,828.80	0.075	0.019	9.660	0.0966	42.31	10.72	99.00%	0.423	0.107
Line 1 Drying (3 Rotary Dryers)	112,828.80	3.00	0.750	38.640	1.932	169.2	42.3	95.00%	8.46	2.12
Line 2 Drying (3 Rotary Dryers)	112,828.80	3.00	0.750	38.640	1.932	169.2	42.3	95.00%	8.46	2.12
Line 1 Cooling (3 Coolers)	112,828.80	1.80	1.10	23.184	0.23184	102	62.1	99.00%	1.015	0.621
Line 2 Cooling (3 Coolers)	112,828.80	1.80	1.10	23.184	0.23184	102	62.1	99.00%	1.015	0.621
Line 1 Milling	112,828.80	70.0	35.0	901.600	0.9016	3,949	1,975	99.90%	3.95	1.97
Line 2 Milling	112,828.80	70.0	35.0	901.600	0.9016	3,949	1,975	99.90%	3.95	1.97
Rail Feed Loading	225,657.60	0.027	0.0022	1.35	1.35	3.05	0.25	0%	3.05	0.248
Loading/Shipping	225,657.60	0.086	0.029	2.215	0.221536	9.70	3.27	90.00%	0.970	0.327
Total:						8,565	4,193		41.1	14.9

Methodology

Annual throughput (tons per year) x Emission Factor (lb/ton x 1 ton/2000 hours = Potential to Emit Before Controls (tons/yr)

Potential to Emit After Controls (tons/yr) = Potential to Emit Before Controls (tons/yr) * (1 - Control Efficiency (%))

The hourly capacity for Line 1 Receiving, based on conveyor capacity, is 2,000 bushels per hour (112,000 pounds per hour or 56.0 tons per hour). Annual Throughput for Line 1 Receiving is limited to 5,600 tons per year.

The hourly capacity for Truck Receiving, based on conveyor capacity, is 10,000 bushels per hour (560,000 pounds per hour or 280 tons per hour). Annual Throughput for Truck Receiving is limited to 225,680 tons per year.

**Appendix A: Emissions Calculations
Natural Gas Combustion Only
MM BTU/HR <100
Small Industrial Boilers**

Company Name: Agricor, Inc.
Address City IN Zip: 1626 South Joaquin Dr., Marion, Indiana 46952
Permit Number: F 053-16206-00052
Plt ID: 053-00052
Reviewer: Edward A. Longenberger
Application Date: October 7, 2002

		<u>Emission Unit</u>	<u>MMBtu/hr Rating</u>
Heat Input Capacity	Potential Throughput	B1	1.67
MMBtu/hr	MMCF/yr	B2	4.18
		Total:	<hr/> 5.85
<div style="border: 1px solid black; padding: 2px; display: inline-block;">5.85</div>	51		

Emission Factor in lb/MMCF	Pollutant					
	PM*	PM10*	SO2	NOx	VOC	CO
	1.90	7.60	0.600	100 **see below	5.50	84.0
Potential Emission in tons/yr	0.049	0.195	0.015	2.56	0.141	2.15

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

**Emission Factors for NOx: Uncontrolled = 100, Low NOx Burner = 50, Low NOx Burners/Flue gas recirculation = 32

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 are from AP 42, Chapter 1.4, Tables 1.4-1, 1.4-2, 1.4-3, SCC #1-02-006-02, 1-01-006-02, 1-03-006-02, and 1-03-006-03 (SUPPLEMENT D 3/98)

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

See page 2 for HAPs emissions calculations.

**Appendix A: Emissions Calculations
 Natural Gas Combustion Only
 MM BTU/HR <100
 Small Industrial Boiler
 HAPs Emissions**

Company Name: Agricolor, Inc.
Address City IN Zip: 1626 South Joaquin Dr., Marion, Indiana 46952
Permit Number: F 053-16206-00052
Pit ID: 053-00052
Reviewer: Edward A. Longenberger
Application Date: October 7, 2002

HAPs - Organics					
Emission Factor in lb/MMcf	Benzene 0.00210	Dichlorobenzene 0.00120	Formaldehyde 0.07500	Hexane 1.80000	Toluene 0.00340
Potential Emission in tons/yr	0.00005	0.00003	0.002	0.046	0.00009

HAPs - Metals						
Emission Factor in lb/MMcf	Lead 0.0005	Cadmium 0.0011	Chromium 0.0014	Manganese 0.0004	Nickel 0.0021	Total
Potential Emission in tons/yr	0.00001	0.00003	0.00004	0.00001	0.00005	0.048

Methodology is the same as page 3.

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
LPG-Propane - Industrial Boilers**

Company Name: Agricor, Inc.
Address City IN Zip: 1626 South Joaquin Dr., Marion, Indiana 46952
Permit Number: F 053-16206-00052
Plt ID: 053-00052
Reviewer: Edward A. Longenberger
Application Date: October 7, 2002

<u>Emission Unit</u>	<u>MMBtu/hr Rating</u>
B1	1.67
B2	4.18
Total:	5.85

Heat Input Capacity
MMBtu/hr

5.85

Potential Throughput
kgals/year

545.54

SO2 Emission factor = 0.10 x S
 S = Sulfur Content =

1.50 grains/100ft³

Emission Factor in lb/kgal	Pollutant					
	PM*	PM10*	SO2 (0.10S)	NOx	VOC **TOC value	CO
Potential Emission in tons/yr	0.164	0.164	0.041	5.18	0.136	0.873

*PM emission factor is filterable PM only. PM10 emission factor is assumed to be the same as PM based on a footnote in Table 1.5-1, therefore PM10 is filterable only as well.

**The VOC value given is TOC. The methane emission factor is 0.2 lb/kgal.

Methodology

1 gallon of LPG has a heating value of 94,000 Btu

(Source - AP-42 (Supplement B 10/96) page 1.5-1)

Potential Throughput (kgals/year) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1kgal per 1000 gallon x 1 gal per 0.0915 MMBtu

Emission Factors are from AP42 (Supplement B 10/96), Table 1.5-1 (SCC #1-02-010-02)

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

**Appendix A: Emission Calculations
Unpaved Roads**

Company Name: Agricor, Inc.
Address City IN Zip: 1626 South Joaquin Dr., Marion, Indiana 46952
Permit Number: F 053-16206-00052
Pit ID: 053-00052
Reviewer: Edward A. Longenberger
Application Date: October 7, 2002

The following calculations determine the amount of emissions created by unpaved roads, based on 8,760 hours of use and AP-42, Ch 13.2.2 (11/2006).

$$\begin{aligned}
 &0.86 \text{ trip/hr} \times \\
 &0.0379 \text{ mile/trip} \times \\
 &2 \text{ (round trip) } \times \\
 &8760 \text{ hr/yr} = \qquad \qquad \qquad 571.047 \text{ miles per year}
 \end{aligned}$$

PM

$$\begin{aligned}
 E_f &= k \cdot [(s/12)^{0.9}] \cdot [(W/3)^b] \\
 &= 10.87 \text{ lb/mile} \\
 \text{where } k &= 4.9 \text{ (particle size multiplier for PM)} \quad (k=4.9 \text{ for PM-30 or TSP}) \\
 s &= 8.4 \text{ mean \% silt content of unpaved roads} \\
 b &= 0.45 \text{ Constant for PM} \\
 W &= 36 \text{ tons average vehicle weight} \\
 M &= 0.2 \text{ surface material moisture content, \% (default is 0.2 for dry conditions)}
 \end{aligned}$$

$$E = \frac{10.87 \text{ lb/mi} \times 571.047 \text{ mi/yr}}{2000 \text{ lb/ton}} = \boxed{3.10 \text{ tons/yr}}$$

Taking natural mitigation due to precipitation into consideration:

$$E_{ext} = E \cdot [(365-p)/365] = 2.04 \text{ tons/yr}$$

where p = 125 days of rain greater than or equal to 0.01 inches(see Fig. 13.2.2-1)

PM-10

$$\begin{aligned}
 E_f &= k \cdot [(s/12)^{0.9}] \cdot [(W/3)^b] \\
 &= 3.33 \text{ lb/mile} \\
 \text{where } k &= 1.5 \text{ (particle size multiplier for PM-10)} \quad (k=4.9 \text{ for PM-30 or TSP}) \\
 s &= 8.4 \text{ mean \% silt content of unpaved roads} \\
 b &= 0.45 \text{ Constant for PM-10} \\
 W &= 36 \text{ tons average vehicle weight} \\
 M &= 0.2 \text{ surface material moisture content, \% (default is 0.2 for dry conditions)}
 \end{aligned}$$

$$E = \frac{3.33 \text{ lb/mi} \times 571.047 \text{ mi/yr}}{2000 \text{ lb/ton}} = \boxed{0.951 \text{ tons/yr}}$$

Taking natural mitigation due to precipitation into consideration:

$$E_{ext} = E \cdot [(365-p)/365] = 0.625 \text{ tons/yr}$$

where p = 125 days of rain greater than or equal to 0.01 inches(see Fig. 13.2.2-1)