



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

We Protect Hoosiers and Our Environment.

Mitchell E. Daniels Jr.
Governor

Thomas W. Easterly
Commissioner

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

TO: Interested Parties / Applicant

DATE: May 13, 2008

RE: Cargill AgHorizons - Linden Grain Elevator / 107-26081-00009

FROM: Matthew Stuckey, Branch 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, Suite N 501E, 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.dot12/03/07



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

We make Indiana a cleaner, healthier place to live.

Mitchell E. Daniels, Jr.
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Mr. Jim Simpson
Cargill AgHorizons - Linden Grain Elevator
173 West County Road 1100 North
Linden, Indiana 47955

May 13, 2008

Re: 107-26081-00009
Third Significant Revision to
F107-21971-00009

Dear Mr. Simpson:

Cargill AgHorizons - Linden Grain Elevator was issued a Federally Enforceable State Operating Permit (FESOP) No. F107-21971-00009 on March 1, 2006 for a stationary grain elevator located at 173 West County Road 1100 North, Linden, Indiana 47955. On February 11, 2008, the Office of Air Quality (OAQ) received an application from the source requesting to increase the existing annual grain throughput limits and remove the requirement to use mineral oil or soybean oil to control fugitive PM/PM10 emissions from the existing grain dryer and metal storage tanks and conveyors. In addition, the source has requested that the permit be updated to include the new PSD major source threshold of 250 tons per year for criteria pollutants since ethanol plants are no longer considered one of the twenty-eight (28) listed source categories under 326 IAC 2-2, 326 IAC 2-3, or 326 IAC 2-7. The attached Technical Support Document (TSD) provides additional explanation of the changes to the source/permit. Pursuant to the provisions of 326 IAC 2-8-11.1, these changes to the permit are required to be reviewed in accordance with the Significant Permit Revision (SPR) procedures of 326 IAC 2-8-11.1(f). Pursuant to the provisions of 326 IAC 2-8-11.1, a significant permit revision to this permit is hereby approved as described in the attached Technical Support Document (TSD).

Pursuant to 326 IAC 2-8-11.1, this permit shall be revised by incorporating the significant permit revision into the permit. All other conditions of the permit shall remain unchanged and in effect. Attached please find the entire revised permit.

This decision is subject to the Indiana Administrative Orders and Procedures Act - IC 4-21.5-3-5. If you have any questions on this matter, please contact Brian Williams, of my staff, at 317-234-5375 or 1-800-451-6027, and ask for extension 4-5375.

Sincerely/Original Signed By:

Matthew Stuckey, Chief
Permits Branch
Office of Air Quality

Attachments: Technical Support Document and revised permit

MS/BMW

cc: File - Montgomery County
Montgomery County Health Department

Cargill AgHorizons - Linden Grain Elevator
Linden, Indiana
Permit Reviewer: Brian Williams

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U.S. EPA, Region V
Air Compliance Section
Compliance Data Section
Technical Support and Modeling
Permits Administrative and Development
Billing, Licensing and Training Section



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NEW SOURCE REVIEW AND FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP) OFFICE OF AIR QUALITY

**Cargill AgHorizons – Linden Grain Elevator
173 West, Country Road 1100 North
Linden, Indiana 47955**

(herein known as the Permittee) is hereby authorized to construct and 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 provision 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. This permit also addresses new source review requirements and is intended to fulfill the new source review procedures and permit revision requirements pursuant to 326 IAC 2-8-11.1, applicable to those conditions.

Operation Permit No.: F107-21971-00009	
Original signed by Paul Dubenetzky, Assistant Commissioner Office of Air Quality	Issuance Date: March 1, 2006 Expiration Date: March 1, 2011
First Significant Permit Revision No: 107-22880-00009, issued October 6, 2006 Second Significant Permit Revision No: 107-23999-00009, issued on May 21, 2007	
Third Significant Permit Revision No: 107-26081-00009	Pages Affected: Entire Permit
Issued by/Original Signed By: Matthew Stuckey, Chief Permits Branch Office of Air Quality	Issuance Date: May 13, 2008 Expiration Date: March 1, 2011

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SECTION A SOURCE SUMMARY

This permit is based on information requested by the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ). The information describing the source contained in conditions A.1 A.3, and A.4 is descriptive information and does not constitute enforceable conditions. However, the Permittee should be aware that a physical change or a change in the method of operation that may render this descriptive information obsolete or inaccurate may trigger requirements for the Permittee to obtain additional permits or seek modification of this permit pursuant to 326 IAC 2, or change other applicable requirements presented in the permit application.

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

The Permittee owns and operates a stationary grain elevator, where grain means corn, wheat, sorghum, rice, rye, oats, barley, and soybeans.

Source Address: 173 West, Country Road 1100 North, Linden, Indiana 47955
Mailing Address: 173 West, Country Road 1100 North, Linden, Indiana 47955
General Source Phone: (765) 513-6224
SIC Code: 5153
Country Location: Montgomery Country
Source Location Status: Attainment for all criteria pollutants
Source Status: Federally Enforceable State Operating Permit (FESOP)
Minor Source, under PSD Rules
Minor Source, Section 112 of the Clean Air Act
Not 1 of 28 Source Categories, based on 40 CFR 52.21 (effective July 2, 2007)

A.2 Source Definition [326 IAC 2-8-1] [326 IAC 2-7-1(22)]

The following two (2) companies will be located at the same location (173 West, Country Road 1100 North, Linden, Indiana 47955):

- (a) Cargill AgHorizons – Linden Grain Elevator (Plant ID #107-00009), an existing grain elevator (SIC 5153), which started operation in 1972.
- (b) ASA Linden, LLC (Plant ID #107-00061), a new ethanol production plant (SIC 2869). All the grain received at the ethanol plant will be from Cargill AgHorizons - Linden Grain Elevator.

Since these two (2) plants will be located on the same property and will have a supporting relationship, IDEM, OAQ has determined that these two (2) plants should be considered one (1) source for purposes of determining the potential to emit regulated air pollutants and applicable requirements under the Clean Air Act (as amended by the 1990 Clean Air Act Amendments), Title 40 of the Code of Federal Regulations (CFR), and Title 326 of the Indiana Administrative Code (IAC). Separate FESOPs will be issued to Plant #107-00009 and #107-00061 solely for administrative purposes. This permit covers the Cargill AgHorizons grain elevator plant (#107-00009).

A.3 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) grain receiving operation, identified as EU101, constructed in 1972 and approved for modification in 2006, controlled by baghouse BH1, with emissions exhausted through Stack EP110, consisting of the following:
 - (1) One (1) truck dump pit, with a maximum capacity of 840 tons of grain per hour.
 - (2) One (1) truck/railcar dump pit, with a maximum capacity of 840 tons of grain per hour.

Under NSPS, Subpart DD, the grain receiving operation EU101 is considered a grain loading station.

- (b) One (1) grain leg handling system, identified as EU102, constructed in 1972 and approved for modification in 2006, controlled by baghouse BH1, with emissions exhausted through Stack EP110, and consisting of the following:
 - (1) Two (2) enclosed transfer legs associated with the grain dump pits, identified as Leg 1 and Leg 2, each with a maximum throughput rate of 840 tons of grain per hour.
 - (2) Two (2) enclosed transfer legs associated with the grain dryer, identified as Leg 3 and Leg 4, each with a maximum throughput rate of 140 tons of grain per hour.

Under NSPS, Subpart DD, the grain leg handling system EU102 is considered a grain handling operation.

- (c) One (1) enclosed conveyor system, identified as EU103, constructed in 1972 and approved for modification in 2006, controlled by baghouse BH1, with emissions exhausted through Stack EP110, and consisting of the following:
 - (1) Four (4) enclosed conveyors, identified as C1, C2, C7, and C9, each with a maximum throughput rate of 840 tons of grain per hour.
 - (2) Five (5) enclosed conveyors which transfers grain to ASA Linden, LLC, identified as EC1 through EC5, with a maximum throughput rate of 420 tons of grain per hour.

Under NSPS, Subpart DD, the enclosed conveyor system EU103 is considered a grain handling operation.

- (d) One (1) drag conveyor system, identified as EU104, constructed in 1972 and approved for modification in 2006, controlled by baghouse BH1, with emissions exhausted through Stack EP110, and consisting of four (4) enclosed drag conveyors (identified as DC1, DC2, DC4, and DC5), each with a maximum throughput rate of 140 tons of grain per hour. Under NSPS, Subpart DD, the drag conveyor system EU104 is considered a grain handling operation.
- (e) Seven (7) headhouse storage bins and one (1) metal storage tank, identified as EU105, constructed in 1972, with a total storage capacity of 725,625 bushels, and with a total maximum throughput rate of 840 tons of grain per hour, indirectly controlled by baghouse BH1, with emissions exhausted through Stack EP110.
- (f) Eight (8) annex storage bins, identified as EU106, constructed in 1972, with a total storage capacity of 557,800 bushels and with a total maximum throughput rate of 840 tons of grain per hour, indirectly controlled by baghouse BH1, with emissions exhausted through Stack EP110.
- (g) One (1) enclosed grain mechanical screener, identified as EU107, constructed in 1972 and approved for modification in 2006, with a maximum throughput rate of 420 tons of grain per hour, indirectly controlled by baghouse BH1, with emissions exhausted through Stack EP110. Under NSPS, Subpart DD, the grain mechanical screener EU107 is considered a grain handling operation.
- (h) One (1) natural gas fired column grain dryer, identified as EU100, constructed in 1982, with a maximum heat input capacity of 32.8 MMBtu/hr and a maximum throughput rate of 87 tons of grain per hour.

- (i) Three (3) metal storage tanks, identified as FS104, constructed in 1972, with a total storage capacity of 1.57 million bushels and a maximum total throughput rate of 560 tons of grain per hour.
- (j) Three (3) storage tank conveyors, identified as FS103, constructed in 1972, each with a maximum throughput rate of 560 tons of grain per hour.
- (k) One (1) grain loadout operation, identified as EU108, constructed in 1972 and approved for modification in 2006, controlled by baghouse BH1, with emissions exhausted through Stack EP110, consisting of the following:
 - (1) One (1) railcar loadout operation, with a maximum throughput rate of 1,120 tons of grain per hour.
 - (2) One (1) truck loadout operation, with a maximum throughput rate of 840 tons of grain per hour.

Under NSPS, Subpart DD, the grain loadout operation EU108 is considered a grain unloading station.

- (l) One (1) tank reclaim conveyor, identified as C5, constructed in 1972 and approved for modification in 2006, with a maximum throughput rate of 840 tons of grain per hour, controlled by baghouse BH2, with emissions exhausted through Stack EP120. Under NSPS, Subpart DD, the reclaim conveyor C5 is considered a grain handling operation.
- (m) One (1) annex bin reclaim conveyor, identified as C8, constructed in 1972 and approved for modification in 2006, with a maximum throughput rate of 840 tons of grain per hour, controlled by baghouse BH1, with emissions exhausted through Stack EP110. Under NSPS, Subpart DD, the reclaim conveyor C8 is considered a grain handling operation.
- (n) One (1) enclosed headhouse distributor, identified as EU113, constructed in 1972 and approved for modification in 2006, with a maximum throughput rate of 840 tons of grain per hour, indirectly controlled by baghouse BH1, with emissions exhausted through Stack EP110. Under NSPS, Subpart DD, the headhouse distributor EU113 is considered a grain handling operation.
- (o) One (1) enclosed annex distributor, identified as EU114, constructed in 1972 and approved for modification in 2006, with a maximum throughput rate of 840 tons of grain per hour, indirectly controlled by baghouse BH1, with emissions exhausted through Stack EP110. Under NSPS, Subpart DD, the annex distributor EU114 is considered a grain handling operation.

A.4 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, as defined in 326 IAC 2-7-1(21):

- (a) Vessels storing lubricating oils, hydraulic oils, machining oils, and machining fluids.
- (b) Replacement or repair of electrostatic precipitators, bags in baghouses and filters in other air filtration equipment.
- (c) Paved roads and parking lots with public access. [326 IAC 6-4]

- (d) Other emission units, not regulated by a NESHAP, with PM₁₀, NO_x, and SO₂ emissions less than five (5) pounds per hour or twenty-five (25) pounds per day, CO emissions less than twenty-five (25) pounds per day, VOC emissions less than three (3) pounds per hour or fifteen (15) pounds per day, lead emissions less than six-tenths (0.6) tons per year or three and twenty-nine hundredths (3.29) pounds per day, and emitting greater than one (1) pound per day but less than five (5) pounds per day or one (1) ton per year of a single HAP, or emitting greater than one (1) pound per day but less than twelve and five tenths (12.5) pounds per day or two and five tenths (2.5) tons per year of any combination of HAPs:

Three (3) outdoor grain storage piles, identified as EU111, with a total maximum throughput rate of 1,680,000 tons/yr. [326 IAC 6-4]

A.5 FESOP Applicability [326 IAC 2-8-2]

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

SECTION B GENERAL CONDITIONS

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

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

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

(a) This permit, F107-21971-00009, 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 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.9 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.10 Annual Compliance Certification [326 IAC 2-8-5(a)(1)]

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

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

- (b) The annual compliance certification report required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ, on or before the date it is due.
- (c) The annual compliance certification report shall include the following:
 - (1) The appropriate identification of each term or condition of this permit that is the basis of the certification;
 - (2) The compliance status;
 - (3) Whether compliance was continuous or intermittent;
 - (4) The methods used for determining the compliance status of the source, currently and over the reporting period consistent with 326 IAC 2-8-4(3); and
 - (5) Such other facts as specified in Sections D of this permit, as IDEM, OAQ, may be required 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.11 Preventive Maintenance Plan [326 IAC 1-6-3] [326 IAC 2-8-4(9)] [326 IAC 2-8-5(a)(1)]

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

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

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

Indiana Department of Environmental Management
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Indianapolis, Indiana 46204-2251

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

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

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

(a) An emergency, as defined in 326 IAC 2-7-1(12), is not an affirmative defense for an action brought for noncompliance with a federal or state health-based emission limitation, except as provided in 326 IAC 2-8-12.

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

- (1) An emergency occurred and the Permittee can, to the extent possible, identify the causes of the emergency;
- (2) The permitted facility was at the time being properly operated;

- (3) During the period of an emergency, the Permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards or other requirements in this permit;
- (4) For each emergency lasting one (1) hour or more, the Permittee notified IDEM, OAQ, within four (4) daytime business hours after the beginning of the emergency, or after the emergency was discovered or reasonably should have been discovered;

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

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

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

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

The notice fulfills the requirement of 326 IAC 2-8-4(3)(C)(ii) and must contain the following:

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

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

- (6) The Permittee immediately took all reasonable steps to correct the emergency.
- (c) In any enforcement proceeding, the Permittee seeking to establish the occurrence of an emergency has the burden of proof.
- (d) This emergency provision supersedes 326 IAC 1-6 (Malfunctions). This permit condition is in addition to any emergency or upset provision contained in any applicable requirement.
- (e) The Permittee seeking to establish the occurrence of an emergency shall make records available upon request to ensure that failure to implement a PMP did not cause or contribute to an exceedance of any limitations on emissions. However, IDEM, OAQ may require that the Preventive Maintenance Plans required under 326 IAC 2-8-3(c)(6) be revised in response to an emergency.
- (f) Failure to notify IDEM, OAQ by telephone or facsimile of an emergency lasting more than one (1) hour in accordance with (b)(4) and (5) of this condition shall constitute a violation of 326 IAC 2-8 and any other applicable rules.

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

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

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

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

- (a) All terms and conditions of permits established prior to F107-21971-00009 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 which document, on a rolling five (5) year basis, which document all such changes and emissions 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] [IC13-30-3-1]

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 Advanced Source Modification Approval [326 IAC 2-8-4(11)] [326 IAC 2-1.1-9]

- (a) The requirements to obtain a permit revision under 326 IAC 2-8-11.1 are satisfied by this permit for the proposed emission units, control equipment or insignificant activities in Sections A.3 and A.4.
- (b) Pursuant to 326 IAC 2-1.1-9 any permit authorizing construction may be revoked if construction of the emission unit has not commenced within eighteen (18) months from the date of issuance of the permit, or if during the construction work is suspended for a continuous period of one (1) year or more.

B.25 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

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

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

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

C.2 Overall Source Limit [326 IAC 2-8] [326 IAC 2-2]

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

(a) Pursuant to 326 IAC 2-8:

- (1) The potential to emit any regulated pollutant, except particulate matter (PM), from the entire source shall be limited to less than one hundred (100) tons per twelve (12) consecutive month period. This limitation shall 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 one hundred (100) tons per twelve (12) consecutive month period. This limitation shall make the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) not applicable;

(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 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 following plan submitted on April 20, 2006:

- (a) Fugitive particulate matter emissions from paved roads and parking lots shall be controlled by cleaning and vacuum sweeping on an as needed basis.

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) Compliance testing on new emissions units shall be conducted within 60 days after achieving maximum production rate, but no later than 180 days after initial start-up, if specified in Section D of this approval. 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 have a scale such that the expected normal reading 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 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.16 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.17 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.18 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.19 General Reporting Requirements [326 IAC 2-8-4(3)(C)] [326 IAC 2-1.1-11]

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

Indiana Department of Environmental Management
Compliance Data Section, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251
- (c) Unless otherwise specified in this permit, any notice, report, or other submission required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ, on or before the date it is due.

- (d) Unless otherwise specified in this permit, all reports required in Section D of this permit shall be submitted within thirty (30) days of the end of the reporting period. All reports do require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (e) The first report shall cover the period commencing on the date of issuance of this permit and ending on the last day of the reporting period. Reporting periods are based on calendar years, unless otherwise specified in this permit. For the purpose of this permit "calendar year" means the twelve (12) month period from January 1 to December 31 inclusive.

Stratospheric Ozone Protection

C.20 Compliance with 40 CFR 82 and 326 IAC 22-1

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

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

SECTION D.1 FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-8-4(10)]: Grain Receiving, Handling, and Loadout Operations

- (a) One (1) grain receiving operation, identified as EU101, constructed in 1972 and approved for modification in 2006, controlled by baghouse BH1, with emissions exhausted through Stack EP110, consisting of the following:

- (1) One (1) truck dump pit, with a maximum capacity of 840 tons of grain per hour.
- (2) One (1) truck/railcar dump pit, with a maximum capacity of 840 tons of grain per hour.

Under NSPS, Subpart DD, the grain receiving operation EU101 is considered a grain loading station.

- (b) One (1) grain leg handling system, identified as EU102, constructed in 1972 and approved for modification in 2006, controlled by baghouse BH1, with emissions exhausted through Stack EP110, and consisting of the following:

- (1) Two (2) enclosed transfer legs associated with the grain dump pits, identified as Leg 1 and Leg 2, each with a maximum throughput rate of 840 tons of grain per hour.
- (2) Two (2) enclosed transfer legs associated with the grain dryer, identified as Leg 3 and Leg 4, each with a maximum throughput rate of 140 tons of grain per hour.

Under NSPS, Subpart DD, the grain leg handling system EU102 is considered a grain handling operation.

- (c) One (1) enclosed conveyor system, identified as EU103, constructed in 1972 and approved for modification in 2006, controlled by baghouse BH1, with emissions exhausted through Stack EP110, and consisting of the following:

- (1) Four (4) enclosed conveyors, identified as C1, C2, C7, and C9, each with a maximum throughput rate of 840 tons of grain per hour.
- (2) Five (5) enclosed conveyors which transfers grain to ASA Linden, LLC, identified as EC1 through EC5, with a maximum throughput rate of 420 tons of grain per hour.

Under NSPS, Subpart DD, the enclosed conveyor system EU103 is considered a grain handling operation.

- (d) One (1) drag conveyor system, identified as EU104, constructed in 1972 and approved for modification in 2006, controlled by baghouse BH1, with emissions exhausted through Stack EP110, and consisting of four (4) enclosed drag conveyors (identified as DC1, DC2, DC4, and DC5), each with a maximum throughput rate of 140 tons of grain per hour. Under NSPS, Subpart DD, the drag conveyor system EU104 is considered a grain handling operation.

- (e) Seven (7) headhouse storage bins and one (1) metal storage tank, identified as EU105, constructed in 1972, with a total storage capacity of 725,625 bushels, and with a total maximum throughput rate of 840 tons of grain per hour, indirectly controlled by baghouse BH1, with emissions exhausted through Stack EP110.

- (f) Eight (8) annex storage bins, identified as EU106, constructed in 1972, with a total storage capacity of 557,800 bushels and with a total maximum throughput rate of 840 tons of grain per hour, indirectly controlled by baghouse BH1, with emissions exhausted through Stack EP110.

SECTION D.1 FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-8-4(10)]: Grain Receiving, Handling, and Loadout Operations

- (g) One (1) enclosed grain mechanical screener, identified as EU107, constructed in 1972 and approved for modification in 2006, with a maximum throughput rate of 420 tons of grain per hour, indirectly controlled by baghouse BH1, with emissions exhausted through Stack EP110. Under NSPS, Subpart DD, the grain mechanical screener EU107 is considered a grain handling operation.
- (h) One (1) natural gas fired column grain dryer, identified as EU100, constructed in 1982, with a maximum heat input capacity of 32.8 MMBtu/hr and a maximum throughput rate of 87 tons of grain per hour.
- (i) Three (3) metal storage tanks, identified as FS104, constructed in 1972, with a total storage capacity of 1.57 million bushels and a maximum total throughput rate of 560 tons of grain per hour.
- (j) Three (3) storage tank conveyors, identified as FS103, constructed in 1972, each with a maximum throughput rate of 560 tons of grain per hour.
- (k) One (1) grain loadout operation, identified as EU108, constructed in 1972 and approved for modification in 2006, controlled by baghouse BH1, with emissions exhausted through Stack EP110, consisting of the following:
 - (1) One (1) railcar loadout operation, with a maximum throughput rate of 1,120 tons of grain per hour.
 - (2) One (1) truck loadout operation, with a maximum throughput rate of 840 tons of grain per hour.

Under NSPS, Subpart DD, the grain loadout operation EU108 is considered a grain unloading station.
- (l) One (1) tank reclaim conveyor, identified as C5, constructed in 1972 and approved for modification in 2006, with a maximum throughput rate of 840 tons of grain per hour, controlled by baghouse BH2, with emissions exhausted through Stack EP120. Under NSPS, Subpart DD, the reclaim conveyor C5 is considered a grain handling operation.
- (m) One (1) annex bin reclaim conveyor, identified as C8, constructed in 1972 and approved for modification in 2006, with a maximum throughput rate of 840 tons of grain per hour, controlled by baghouse BH1, with emissions exhausted through Stack EP110. Under NSPS, Subpart DD, the reclaim conveyor C8 is considered a grain handling operation.
- (n) One (1) enclosed headhouse distributor, identified as EU113, constructed in 1972 and approved for modification in 2006, with a maximum throughput rate of 840 tons of grain per hour, indirectly controlled by baghouse BH1, with emissions exhausted through Stack EP110. Under NSPS, Subpart DD, the headhouse distributor EU113 is considered a grain handling operation.
- (o) One (1) enclosed annex distributor, identified as EU114, constructed in 1972 and approved for modification in 2006, with a maximum throughput rate of 840 tons of grain per hour, indirectly controlled by baghouse BH1, with emissions exhausted through Stack EP110. Under NSPS, Subpart DD, the annex distributor EU114 is considered a grain handling operation.

Insignificant Activities:

- (c) Paved roads and parking lots with public access. [326 IAC 6-4]
- (d) Other emission units, not regulated by a NESHAP, with PM10, NOx, and SO2 emissions less than

SECTION D.1 FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-8-4(10)]: Grain Receiving, Handling, and Loadout Operations

five (5) pounds per hour or twenty-five (25) pounds per day, CO emissions less than twenty-five (25) pounds per day, VOC emissions less than three (3) pounds per hour or fifteen (15) pounds per day, lead emissions less than six-tenths (0.6) tons per year or three and twenty-nine hundredths (3.29) pounds per day, and emitting greater than one (1) pound per day but less than five (5) pounds per day or one (1) ton per year of a single HAP, or emitting greater than one (1) pound per day but less than twelve and five tenths (12.5) pounds per day or two and five tenths (2.5) tons per year of any combination of HAPs:

Three (3) outdoor grain storage piles, identified as EU111, with a total maximum throughput rate of 1,680,000 tons/yr. [326 IAC 6-4]

(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.1.1 FESOP and PSD Minor Limitations [326 IAC 2-2] [326 IAC 2-8-4]

The Permittee shall comply with the following limits:

- (a) The PM and PM10 emissions from baghouses BH1 and BH2, which are used to control the emissions from the grain receiving (EU101), handling (EU102 - EU107, C8, C5, EU113, and EU114), and loadout (EU108) operations shall not exceed the emission limits listed in the table below:

Unit ID	Unit Description	Control Device	PM/PM10 Emission Limit (lbs/hr)
EU101	Grain Receiving	Baghouse BH1	0.58
EU102 EU103 EU104 C8 EU113 EU114	Grain Handling		
EU105 EU106	Grain Storage		
EU107	Grain Mechanical Screener		
EU108	Grain Loadout		
C5	Tank Reclaim Conveyor		

- (b) The Permittee shall comply with the following throughput rate limits:

Unit ID	Unit Description	Throughput Limits (tons of grain per twelve (12) consecutive month period)
EU101	Grain Receiving	1,680,000
EU108	Grain Loadout	1,680,000
FS104	Grain Storage Tanks	700,000
FS103	Storage Tank Conveyors	700,000
EU100	Grain Dryer	420,000

- (c) The Permittee shall comply with the following emission limitations for PM and PM10 emissions:

Unit ID	Unit Description	PM Emission Limit (lbs/ton)	PM10 Emission Limit (lbs/ton)
FS104	Grain Storage Tanks	0.025	0.0063
FS103	Storage Tank Conveyors	0.061	0.0340
EU100	Grain Dryer	0.22	0.0550

- (d) The amount of natural gas combusted in the grain dryer (EU100) shall not exceed 80 million cubic feet (MMCF) per twelve (12) consecutive month period with compliance determined at the end of each month.
- (e) NOx emissions from the grain dryer (EU100) shall not exceed 100 pounds per million cubic foot (lbs/MMCF).
- (f) CO emissions from the grain dryer (EU100) shall not exceed 84 pounds per million cubic foot (lbs/MMCF).
- (g) The Permittee shall use periodic sweeping to control PM and PM10 emissions from the paved roads. The sweeping shall be applied in a manner and at a frequency sufficient to ensure compliance with 326 IAC 2-2.
- (h) The Permittee shall not use anti-skid materials, rock salt, or other chemical deicers, to remove ice and snow from source hauling roads or parking areas. The Permittee shall remove ice from the roadways only with a plow.

Compliance with these limits, combined with the potential to emit PM, PM10, NOx, and CO from all other emission units and the potential to emit PM and PM10 from ASA Linden, LLC (Plant ID #107-00061), shall limit the source-wide total potential to emit of PM to less than 250 tons per 12 consecutive month period and PM10, NOx, and CO to less than 100 tons per 12 consecutive month period, and shall render 326 IAC 2-7 (Part 70 Permits) and 326 IAC 2-2 (PSD) not applicable.

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

The Permittee shall comply with the following limits:

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

Unit ID	Unit Description	Maximum Throughput Rate (tons/hr)	Control Device	326 IAC 6-3-2 Total Allowable Particulate Emission Rate (lbs/hr)
EU101	Dump Pit 1	840	Baghouse BH1	117.4
	Dump Pit 2	840		
EU102	Grain Leg 1	840		
	Grain Leg 2	840		
	Grain Leg 3	140		
	Grain Leg 4	140		
EU103	Enclosed Conveyor C1	840		
	Enclosed Conveyor C2	840		
	Enclosed Conveyor C7	840		
	Enclosed Conveyor C9	840		
	Enclosed Conveyors EC1-EC5	420		
EU104	Drag Conveyor DC1	140		
	Drag Conveyor DC2	140		
	Drag Conveyor DC4	140		
	Drag Conveyor DC5	140		

Unit ID	Unit Description	Maximum Throughput Rate (tons/hr)	Control Device	326 IAC 6-3-2 Total Allowable Particulate Emission Rate (lbs/hr)
EU105	Headhouse Storages Bins 1-7 and one (1) metal storage tank	840		
EU106	Annex Storage Bins 8-15	840		
EU107	Grain Mechanical Screener	420		
EU108	Railcar Grain Loadout Station	1,120		
	Truck Grain Loadout Station	840		
C8	Annex Bin Reclaim Conveyor	840		
EU113	Headhouse Distributor	840		
EU114	Annex Distributor	840		
C5	Tank Reclaim Conveyor	840	Baghouse BH2	75.4
EU100	Grain Dryer	79	None	48.9
FS104	Each Metal Storage Tank	560	None	70.3
FS103	Each Storage Tank Conveyor	560	None	70.3

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

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:

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

Pursuant to 326 IAC 6-3-2(e)(3), when the process weight exceeds 200 tons per hour, the maximum allowable emission may exceed the emission limits shown in the table above, provided the concentration of particulate matter in the gas discharged to the atmosphere is less than 0.10 pounds per 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 any control devices.

Compliance Determination Requirements

D.1.4 Particulate Control

- (a) In order to comply with Conditions D.1.1(a) and D.1.2, each of the following emission units shall be controlled by the associated baghouse, as listed in the table below, when these units are in operation:

Unit ID	Unit Description	Baghouse ID
EU101	Each Dump Pit	BH1
EU102	Grain Leg Handling	BH1
EU103	Enclosed Conveyor System	BH1
EU104	Drag Conveyor System	BH1
EU105	Each Headhouse Storage Bin and one (1) metal storage tank	BH1
EU106	Each Annex Storage Bin	BH1
EU107	Grain Mechanical Screener	BH1
EU108	Each Grain Loadout Station	BH1
C8	Annex Bin Reclaim Conveyor	BH1
C5	Tank Reclaim Conveyor	BH2
EU113	Headhouse Distributor	BH1
EU114	Annex Distributor	BH1

- (b) In the event that bag failure is observed in a multi-compartment baghouse, if operations will continue for ten (10) days or more after the failure is observed before the failed units will be repaired or replaced, the Permittee shall promptly notify the IDEM, OAQ of the expected

date the failed units will be repaired or replaced. The notification shall also include the status of the applicable compliance monitoring parameters with respect to normal, and the results of any response actions taken up to the time of notification.

D.1.5 Testing Requirements [326 IAC 2-8-5(a)(1), (4)] [326 IAC 2-1.1-11]

In order to demonstrate compliance with Condition D.1.1(a), the Permittee shall perform PM and PM10 testing for baghouses BH1 and BH2 within 60 days after achieving the maximum capacity for the entire source, but not later than 180 days after initial startup of the entire source, utilizing methods as approved by the Commissioner. These tests shall be repeated at least once every five (5) years from the date of this valid compliance demonstration. Testing shall be conducted in accordance with Section C - Performance Testing. PM-10 includes filterable and condensable PM-10.

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

D.1.6 Visible Emissions Notations

The Permittee shall comply with the following:

- (a) Visible emission notations of the baghouse stack exhausts (stacks EP110 and EP120) 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.1.7 Parametric Monitoring

The Permittee shall comply with the following:

The Permittee shall record the pressure drop across each of the baghouses (BH1 and BH2) used in conjunction with the grain receiving operation (EU101), the grain handling operations (EU102 through EU107, C8, C5, EU113, and EU114) and the grain loadout operation (EU108), at least once per day when these units are in operation. When for any one reading, the pressure drop across the baghouse is outside the normal range of 1.0 to 6.0 inches of water or a range established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C - 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.

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.1.8 Broken or Failed Bag Detection

The Permittee shall comply with the following:

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

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

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

D.1.9 Record Keeping Requirements

- (a) To document compliance with Condition D.1.1(b), the Permittee shall maintain monthly records of the following:
 - (1) The amount of grain received in the grain receiving operation (EU101);
 - (2) The amount of grain shipped out in the grain loadout operation (EU108);
 - (3) The amount of grain stored in the grain storage tanks (FS104);
 - (4) The amount of grain handled in the storage tank conveyors (FS103); and
 - (5) The amount of grain input to the grain dryer (EU100).
- (b) To document compliance with Condition D.1.1(d), the Permittee shall maintain monthly records of natural gas usage in the grain dryer (EU100).
- (c) To document compliance with Condition D.1.1(g), the Permittee shall maintain records of the dates and times that sweeping is performed on the paved roads.
- (d) To document compliance with Condition D.1.6, the Permittee shall maintain a daily record of visible emission notations for each of the baghouse stack exhausts. The Permittee shall include in its daily record when a visible emission notation is not taken and the reason for the lack of visible emission notation (e.g. the process did not operate that day).
- (e) To document compliance with Condition D.1.7, the Permittee shall maintain a daily record of pressure drop for each of the baghouses during normal operation. The Permittee shall include in its daily record when a pressure drop reading is not taken and the reason for the lack of a pressure drop reading (e.g. the process did not operate that day).
- (f) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

D.1.10 Reporting Requirements

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

New Source Performance Standards (NSPS) [326 IAC 12]

D.1.11 General Provisions Relating to NSPS [326 IAC 12-1] [40 CFR 60, Subpart A]

(a) The provisions of 40 CFR 60, Subpart A – General Provisions, which are incorporated as 326 IAC 12-1, apply to the grain receiving operation (EU101), the grain handling operation (EU102 through EU104, EU107, C8, C5, EU113, and EU114), and the grain loadout operation (EU108) except when otherwise specified in 40 CFR 60, Subpart DD.

(b) Pursuant to 40 CFR 60.10, the Permittee shall submit all required notifications and reports 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

D.1.12 New Source Performance Standards for Grain Elevators Requirements [40 CFR Part 60, Subpart DD] [326 IAC 12]

Pursuant to 40 CFR Part 60, Subpart DD, the Permittee shall comply with the provisions of New Source Performance Standards for Grain Elevators, which are incorporated by reference as 326 IAC 12, for the grain receiving operation (EU101), the grain handling operation (EU102 through EU104, EU107, C8, C5, EU113, and EU114), and the grain loadout operation (EU108) as follows:

§ 60.300 Applicability and designation of affected facility.

(a) The provisions of this subpart apply to each affected facility at any grain terminal elevator or any grain storage elevator, except as provided under §60.304(b). The affected facilities are each truck unloading station, truck loading station, barge and ship unloading station, barge and ship loading station, railcar loading station, railcar unloading station, grain dryer, and all grain handling operations.

(b) Any facility under paragraph (a) of this section which commences construction, modification, or reconstruction after August 3, 1978, is subject to the requirements of this part.

§ 60.301 Definitions.

As used in this subpart, all terms not defined herein shall have the meaning given them in the Act and in subpart A of this part.

(a) Grain means corn, wheat, sorghum, rice, rye, oats, barley, and soybeans.

(b) Grain elevator means any plant or installation at which grain is unloaded, handled, cleaned, dried, stored, or loaded.

(c) Grain terminal elevator means any grain elevator which has a permanent storage capacity of more than 88,100 m³ (ca. 2.5 million U.S. bushels), except those located at animal food manufacturers, pet food manufacturers, cereal manufacturers, breweries, and livestock feedlots.

(d) Permanent storage capacity means grain storage capacity which is inside a building, bin, or silo.

(e) Railcar means railroad hopper car or boxcar.

(f) Grain storage elevator means any grain elevator located at any wheat flour mill, wet corn mill, dry corn mill (human consumption), rice mill, or soybean oil extraction plant which has a permanent grain storage capacity of 35,200 m³ (ca. 1 million bushels).

(g) Process emission means the particulate matter which is collected by a capture system.

(h) Fugitive emission means the particulate matter which is not collected by a capture system and is released directly into the atmosphere from an affected facility at a grain elevator.

(i) Capture system means the equipment such as sheds, hoods, ducts, fans, dampers, etc. used to collect particulate matter generated by an affected facility at a grain elevator.

(j) Grain unloading station means that portion of a grain elevator where the grain is transferred from a truck, railcar, barge, or ship to a receiving hopper.

(k) Grain loading station means that portion of a grain elevator where the grain is transferred from the elevator to a truck, railcar, barge, or ship.

(l) Grain handling operations include bucket elevators or legs (excluding legs used to unload barges or ships), scale hoppers and surge bins (garners), turn heads, scalpers, cleaners, trippers, and the headhouse and other such structures.

(m) Column dryer means any equipment used to reduce the moisture content of grain in which the grain flows from the top to the bottom in one or more continuous packed columns between two perforated metal sheets.

(n) Rack dryer means any equipment used to reduce the moisture content of grain in which the grain flows from the top to the bottom in a cascading flow around rows of baffles (racks).

(o) Unloading leg means a device which includes a bucket-type elevator which is used to remove grain from a barge or ship.

§ 60.302 Standard for particulate matter.

(b) On and after the date on which the performance test required to be conducted by §60.8 is completed, no owner or operator subject to the provisions of this subpart shall cause to be discharged into the atmosphere from any affected facility except a grain dryer any process emission which:

(1) Contains particulate matter in excess of 0.023 g/dscm (ca. 0.01 gr/dscf).

(2) Exhibits greater than 0 percent opacity.

(c) On and after the 60th day of achieving the maximum production rate at which the affected facility will be operated, but no later than 180 days after initial startup, no owner or operator subject to the provisions of this subpart shall cause to be discharged into the atmosphere any fugitive emission from:

(1) Any individual truck unloading station, railcar unloading station, or railcar loading station, which exhibits greater than 5 percent opacity.

(2) Any grain handling operation which exhibits greater than 0 percent opacity.

(3) Any truck loading station which exhibits greater than 10 percent opacity.

§ 60.303 Test methods and procedures.

(a) In conducting the performance tests required in §60.8, the owner or operator shall use as reference methods and procedures the test methods in appendix A of this part or other methods and procedures as specified in this section, except as provided in §60.8(b). Acceptable alternative methods and procedures are given in paragraph (c) of this section.

(b) The owner or operator shall determine compliance with the particulate matter standards in §60.302 as follows:

(1) Method 5 shall be used to determine the particulate matter concentration and the volumetric flow rate of the effluent gas. The sampling time and sample volume for each run shall be at least 60 minutes and 1.70 dscm (60 dscf). The probe and filter holder shall be operated without heaters.

(2) Method 2 shall be used to determine the ventilation volumetric flow rate.

(3) Method 9 and the procedures in §60.11 shall be used to determine opacity.

(c) The owner or operator may use the following as alternatives to the reference methods and procedures specified in this section:

(1) For Method 5, Method 17 may be used.

D.1.13 One Time Deadlines Relating to New Source Performance Standards for Grain Elevators [40 CFR 60, Subpart DD]

The Permittee shall comply with the following requirements by the dates listed:

Requirement	Rule Cite	Affected Facility	Deadline
Initial Performance Test	40 CFR 60.303 and 40 CFR 60.8	The grain receiving operation (EU101), the grain handling operation (EU102 through EU104, EU107, C8, C5, EU113, and EU114), and the grain loadout operation (EU108)	Within 60 days after achieving the maximum production rate, but no later than 180 days after initial startup.
Notification of date of reconstruction	40 CFR 60.7(a)(1)	The grain receiving operation (EU101), the grain handling operation (EU102 through EU104, EU107, C8, C5, EU113, and EU114), and the grain loadout operation (EU108)	No later than 30 days after reconstruction
Notification of date of actual startup	40 CFR 60.7(a)(3)	The grain receiving operation (EU101), the grain handling operation (EU102 through EU104, EU107, C8, C5, EU113, and EU114), and the grain loadout operation (EU108)	Within 15 days of startup date
Notification of any physical or operational change to an existing facility not exempt under 40 CFR 60.14(e)	40 CFR 60.7(a)(4)	The grain receiving operation (EU101), the grain handling operation (EU102 through EU104, EU107, C8, C5, EU113, and EU114), and the grain loadout operation (EU108)	Within 60 days or as soon as practicable before change is commenced

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT OFFICE OF AIR QUALITY

FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP) CERTIFICATION

Source Name: Cargill AgHorizons – Linden Grain Elevator
Source Address: 173 West, Country Road 1100 North, Linden, Indiana 47955
Mailing Address: 173 West, Country Road 1100 North, Linden, Indiana 47955
FESOP No.: 107-21971-00009

**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: Cargill AgHorizons – Linden Grain Elevator
Source Address: 173 West, Country Road 1100 North, Linden, Indiana 47955
Mailing Address: 173 West, Country Road 1100 North, Linden, Indiana 47955
FESOP No.: 107-21971-00009

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: Cargill AgHorizons – Linden Grain Elevator
 Source Address: 173 West, Country Road 1100 North, Linden, Indiana 47955
 Mailing Address: 173 West, Country Road 1100 North, Linden, Indiana 47955
 FESOP No.: 107-21971-00009
 Facility: Grain Receiving Operation (EU101) and Grain Loadout Operation (EU108)
 Parameter: Total Grain Received and Shipped out (each)
 Limit: Shall not exceed 1,680,000 tons per twelve (12) consecutive month period with compliance determined at the end of each month.

YEAR: _____

Month	Column 1		Column 2		Column 1 + Column 2	
	This Month		Previous 11 Months		12 Month Total	
	Received	Shipped	Received	Shipped	Received	Shipped
Month 1						
Month 2						
Month 3						

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

Submitted by: _____

Title / Position: _____

Signature: _____

Date: _____

Phone: _____

Attach a signed certification to complete this report.

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

FESOP Quarterly Report

Source Name: Cargill AgHorizons – Linden Grain Elevator
 Source Address: 173 West, Country Road 1100 North, Linden, Indiana 47955
 Mailing Address: 173 West, Country Road 1100 North, Linden, Indiana 47955
 FESOP No.: 107-21971-00009
 Facility: Grain Dryer (EU100)
 Parameter: Total Grain Processed
 Limit: Shall not exceed 420,000 tons per twelve (12) consecutive month period with compliance determined at the end of each month.

YEAR: _____

Month	Column 1	Column 2	Column 1 + Column 2
	This Month	Previous 11 Months	12 Month Total
Month 1			
Month 2			
Month 3			

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

Submitted by: _____

Title / Position: _____

Signature: _____

Date: _____

Phone: _____

Attach a signed certification to complete this report.

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

FESOP Quarterly Report

Source Name: Cargill AgHorizons – Linden Grain Elevator
 Source Address: 173 West, Country Road 1100 North, Linden, Indiana 47955
 Mailing Address: 173 West, Country Road 1100 North, Linden, Indiana 47955
 FESOP No.: 107-21971-00009
 Facility: Grain Dryer (EU100)
 Parameter: Natural Gas Usage
 Limit: Less than 80 MMCF per twelve (12) consecutive month period with compliance determined at the end of each month.

YEAR: _____

Month	Column 1	Column 2	Column 1 + Column 2
	This Month	Previous 11 Months	12 Month Total
Month 1			
Month 2			
Month 3			

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

Submitted by: _____

Title / Position: _____

Signature: _____

Date: _____

Phone: _____

Attach a signed certification to complete this report.

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

FESOP Quarterly Report

Source Name: Cargill AgHorizons – Linden Grain Elevator
 Source Address: 173 West, Country Road 1100 North, Linden, Indiana 47955
 Mailing Address: 173 West, Country Road 1100 North, Linden, Indiana 47955
 FESOP No.: 107-21971-00009
 Facility: Metal Storage Tanks (FS104) and Storage Tank Conveyors (FS103)
 Parameter: Total Grain Stored and Conveyed (each)
 Limit: Shall not exceed 700,000 tons per twelve (12) consecutive month period with compliance determined at the end of each month.

YEAR: _____

Month	Column 1		Column 2		Column 1 + Column 2	
	This Month		Previous 11 Months		12 Month Total	
	Stored	Conveyed	Stored	Conveyed	Stored	Conveyed
Month 1						
Month 2						
Month 3						

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

Submitted by: _____

Title / Position: _____

Signature: _____

Date: _____

Phone: _____

Attach a signed certification to complete this report.

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

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

Source Name: Cargill AgHorizons – Linden Grain Elevator
 Source Address: 173 West, Country Road 1100 North, Linden, Indiana 47955
 Mailing Address: 173 West, Country Road 1100 North, Linden, Indiana 47955
 FESOP No.: 107-21971-00009

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

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".	
<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: _____

Attach a signed certification to complete this report.

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

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

Source Background and Description

Source Name:	Cargill AgHorizons - Linden Grain Elevator
Source Location:	173 West County Road 1100 North, Linden, IN 47955
County:	Montgomery
SIC Code:	5153
Operation Permit No.:	F 107-21971-00009
Operation Permit Issuance Date:	March 1, 2006
Significant Permit Revision No.:	107-26081-00009
Permit Reviewer:	Brian Williams

On April 7, 2008, the Office of Air Quality (OAQ) had a notice published in the Journal Review newspaper, Crawfordsville, Indiana, stating that Cargill AgHorizons - Linden Grain Elevator had applied for a Significant Permit Revision to a Federally Enforceable State Operating Permit (FESOP) to increase the existing annual grain throughput limits and remove the requirement to use mineral oil or soybean oil to control fugitive PM/PM10 emissions from the existing grain dryer and metal storage tanks and conveyors. In addition, the source has requested that the permit be updated to include the new PSD major source threshold of 250 tons per year for criteria pollutants since ethanol plants are no longer considered one of the twenty-eight (28) listed source categories under 326 IAC 2-2, 326 IAC 2-3, or 326 IAC 2-7. The notice also stated that the OAQ proposed to issue a Significant Permit Revision to a FESOP for this operation and provided information on how the public could review the proposed permit and other documentation. Finally, the notice informed interested parties that there was a period of thirty (30) days to provide comments on whether or not this permit should be issued as proposed.

Comments and Responses

No comments were received during the public notice period.

Additional Changes

IDEM, OAQ has decided to make an additional revision to the permit as described below, with deleted language as ~~strikeouts~~ and new language **bolded**.

- (a) Condition B.12 has been revised to remove any reference to IDEM's Northern Regional Office, since this source is located in Montgomery County.

B.12 Emergency Provisions [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:

...

- (4) For each emergency lasting one (1) hour or more, the Permittee notified IDEM, OAQ, ~~and Northern Regional Office~~ within four (4) daytime business hours after

the beginning of the emergency, or after the emergency was discovered or reasonably should have been discovered;

IDEM Contact

- (a) Questions regarding this proposed Significant Permit Revision to a FESOP can be directed to Brian Williams at the Indiana Department Environmental Management, Office of Air Quality, Permits Branch, 100 North Senate Avenue, MC 61-53 IGCN 1003, Indianapolis, Indiana 46204-2251 or by telephone at (317) (234-5375) or toll free at 1-800-451-6027 extension (4-5375).
- (b) A copy of the permit is available on the Internet at: <http://www.in.gov/ai/appfiles/idem-caats/>
- (c) For additional information about air permits and how the public and interested parties can participate, refer to the IDEM's Guide for Citizen Participation and Permit Guide on the Internet at: www.idem.in.gov

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

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

Source Description and Location
--

Source Name:	Cargill AgHorizons - Linden Grain Elevator
Source Location:	173 West County Road 1100 North, Linden, IN 47955
County:	Montgomery
SIC Code:	5153
Operation Permit No.:	F 107-21971-00009
Operation Permit Issuance Date:	March 1, 2006
Significant Permit Revision No.:	107-26081-00009
Permit Reviewer:	Brian Williams

On February 11, 2008, the Office of Air Quality (OAQ) has received an application from Cargill AgHorizons - Linden Grain Elevator related to a modification to an existing stationary grain elevator.

Source Definition

The following two (2) companies are located at the same location (173 West, Country Road 1100 North, Linden, Indiana 47955):

- (a) Cargill AgHorizons – Linden Grain Elevator (Plant ID #107-00009), an existing grain elevator (SIC 5153), which started operation in 1972.
- (b) ASA Linden, LLC (Plant ID #107-00061), an ethanol production plant (SIC 2869). All the grain received at the ethanol plant will be from Cargill AgHorizons - Linden Grain Elevator.

Since these two (2) plants are located on the same property and have a supporting relationship, IDEM, OAQ determined that these two (2) plants are considered one (1) single source. Separate FESOP Nos. F107-21971-00009 and F107-21453-00061 were issued to each plant solely for administrative purposes. This FESOP SPR No. 107-26081-00009 covers changes to the permit for the Cargill AgHorizons grain elevator. No changes to the permit for the ASA Linden ethanol plant are proposed at this time.

Existing Approvals

The source was issued FESOP No. 107-21971-00009 on March 1, 2006. The source has since received the following approvals:

- (a) First Significant Permit Revision No. 107-22880-00009, issued on October 6, 2006; and
- (b) Second Significant Permit Revision No. 107-23999-00009, issued on May 21, 2007.

County Attainment Status

The source is located in Montgomery County.

Pollutant	Designation
SO ₂	Better than national standards.
CO	Unclassifiable or attainment effective November 15, 1990.
O ₃	Unclassifiable or attainment effective June 15, 2004, for the 8-hour ozone standard. ¹
PM ₁₀	Unclassifiable effective November 15, 1990.
NO ₂	Cannot be classified or better than national standards.
Pb	Not designated.
¹ Unclassifiable or attainment effective, October 18, 2000, for the 1-hour ozone standard, which was, revoked effective June 15, 2005.	

(a) Ozone Standards

- (1) On October 25, 2006, the Indiana Air Pollution Control Board finalized a rule revision to 326 IAC 1-4-1 revoking the one-hour ozone standard in Indiana.
- (2) On September 6, 2007, the Indiana Air Pollution Control Board finalized a temporary emergency rule to re-designate Allen, Clark, Elkhart, Floyd, LaPorte, St. Joseph as attainment for the 8-hour ozone standard.
- (3) On November 9, 2007, the Indiana Air Pollution Control Board finalized a temporary emergency rule to re-designate Boone, Clark, Elkhart, Floyd, LaPorte, Hamilton, Hancock, Hendricks, Johnson, Madison, Marion, Morgan, Shelby, and St. Joseph as attainment for the 8-hour ozone standard.
- (4) Volatile organic compounds (VOC) and Nitrogen Oxides (NOx) are regulated under the Clean Air Act (CAA) for the purposes of attaining and maintaining the National Ambient Air Quality Standards (NAAQS) for ozone. Therefore, VOC and NOx emissions are considered when evaluating the rule applicability relating to ozone. Montgomery County has been designated as attainment or unclassifiable for ozone. Therefore, VOC and NOx emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.

(b) PM2.5

Montgomery County has been classified as attainment for PM2.5. U.S. EPA has not yet established the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2 for PM2.5 emissions. Therefore, until the U.S. EPA adopts specific provisions for PSD review for PM2.5 emissions, it has directed states to regulate PM10 emissions as a surrogate for PM2.5 emissions.

(c) Other Criteria Pollutants

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

Fugitive Emissions

This type of operation is no longer one of the twenty-eight (28) listed source categories under 326 IAC 2-2, 326 IAC 2-3, or 326 IAC 2-7 (Refer to Page 4 of this TSD for additional explanation), however, there is an applicable New Source Performance Standard that was in effect on August 7, 1980, therefore fugitive

emissions are counted toward the determination of PSD, Emission Offset, and Part 70 Permit applicability.

Status of the Existing Source

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

Process/Emission Unit	Potential To Emit of the Entire Source (tons/year)							
	PM	PM10	SO ₂	NO _x	VOC	CO	Total HAPs	Worst Single HAP
Grain Receiving, Handling, Storage, and Loadout	Less than 2.55	Less than 2.55	0.0	0.0	0.0	0.0	0.0	0.0
Fugitive Grain Receiving and Loadout	Less than 2.71	Less than 0.65	0.0	0.0	0.0	0.0	0.0	0.0
Uncontrolled Storage Tanks (EU109 and the Conveyors (EU110))	Less than 5.78	Less than 2.71	0.0	0.0	0.0	0.0	0.0	0.0
Tank Reclaim Conveyor (C5)	Less than 1.88	Less than 1.88	0.0	0.0	0.0	0.0	0.0	0.0
Grain Dryer (EU100)	Less than 12.1	Less than 3.32	Less than 0.02	Less than 4.00	Less than 0.22	Less than 3.36	0.08	negl.
Grain Storage Piles (Fugitive)	0.05	0.03	0.0	0.0	0.0	0.0	0.0	0.0
Paved Roads (Fugitive)	Less than 9.33	Less than 1.82	0.0	0.0	0.0	0.0	0.0	0.0
Total PTE of Plant #107-00061 (ASA Linden, LLC)	60.9	60.9	81.7	95.1	90.9	95.3	Less than 15.52	Less than 8.33
Total PTE of Entire Source	95.3	73.86	81.72	99.1	91.12	98.66	Less than 15.6	Less than 8.33
Title V Major Source Thresholds	NA	100	100	100	100	100	25	10
PSD Major Source Thresholds	250	250	250	250	250	250	NA	NA
negl. = negligible These emissions are based upon FESOP SPR TSD No. 107-23999-00009 and FESOP SPR ATSD No. 107-24506-00061								

- (a) This existing source is not a major stationary source, under PSD (326 IAC 2-2), because no attainment regulated pollutant is emitted at a rate of 250 tons per year or more, and it is no longer one of the twenty-eight (28) listed source categories, as specified in 326 IAC 2-2-1(gg)(1) (Refer to Page 4 of this TSD for additional explanation regarding the change in status).
- (b) This existing source is not a major source of HAPs, as defined in 40 CFR 63.41, because the Permittee has accepted limits on HAPs emissions to less than ten (10) tons per year for any single HAP and less than twenty-five (25) tons per year of a combination of HAPs. Therefore, this source is an area source under Section 112 of the Clean Air Act (CAA).

Description of Proposed Revision

The Office of Air Quality (OAQ) has reviewed an application, submitted by Cargill AgHorizons - Linden Grain Elevator on February 11, 2008, relating to the following revisions:

1. Effective July 2, 2007, U.S. EPA revised the definition of a "major stationary source" under 40 CFR Parts 51 and 52 PSD and Nonattainment New Source Review, and the definition of a "major source" under 40 CFR parts 70 and 71 (State and Federal Operating Permits). U.S. EPA has reinterpreted the component term "chemical process plants" within the statutory definition of "major emitting facility" in section 169(1) of the CAA to exclude wet and dry corn milling facilities that produce ethanol for fuel, or produce ethanol through a natural fermentation process that involves the use of such things as corn, sugar beets, sugar cane or cellulosic biomass as a feedstock regardless of whether the ethanol is produced for human consumption, fuel, or for an industrial purpose. Therefore, ethanol plants are no longer required to count fugitive emissions for purposes of determining whether a source is a major source under the PSD, nonattainment NSR, or Title V programs unless there is an applicable New Source Performance Standard that was in effect on August 7, 1980 for the ethanol plant, or the ethanol plant has a "nested" source category. ASA Linden, LLC does not have a "nested" source category; therefore, the entire source does not fall under one of the 28 listed source categories and fugitive emissions are not counted towards determining whether the source is a major source under the PSD, nonattainment NSR, or Title V programs.

As a result, Cargill AgHorizons - Linden Grain Elevator has requested that the permit be updated to include the new PSD major source threshold of 250 tons per year for criteria pollutants since ethanol plants are no longer considered one of the twenty-eight (28) listed source categories under 326 IAC 2-2, 326 IAC 2-3, or 326 IAC 2-7. However, there is an applicable New Source Performance Standard that was in effect on August 7, 1980 for Cargill AgHorizons - Linden Grain Elevator (NSPS Subpart DD, Grain Elevators). Therefore, fugitive emissions are still counted toward the determination of PSD, Emission Offset, and Part 70 Permit applicability.

2. The annual grain throughput limits have been increased. In addition, the source will no longer use mineral oil or soybean oil to control fugitive PM/PM10 emissions from the existing grain dryer (EU100), metal storage tanks (EU109), and storage tank conveyors (EU110). As a result, the revised annual grain throughput limits assume that "grain" is corn, wheat, soybeans, or any other grain with similar characteristics. This source will remain a FESOP and a minor source under PSD rules by limiting the potential to emit of PM to less than 250 tons per year and the potential to emit of PM10, SO₂, NO_x, VOC, and CO to less than 100 tons per year.
3. The three existing metal storage tanks, identified as EU109 and the three existing storage tank conveyors, identified as EU110 have been revised to be identified as FS104 and FS103, respectively.
4. The total maximum throughput rate for the three existing outdoor grain storage piles has been increased from 67,200 tons/yr to 1,680,000 tons/yr.
5. Section D.2, which contained operating conditions prior to the startup of the ethanol plant has been removed from the permit because the ethanol plant commenced operations on August 3, 2007.

There are no new emission units involved in this revision.

Enforcement Issues

There are no pending enforcement actions related to this revision.

Emission Calculations

See Appendix A of this TSD for detailed emission calculations.

Permit Level Determination – FESOP Revision

The following table is used to determine the appropriate permit level under 326 IAC 2-8.11.1. This table reflects the PTE before controls of the proposed revision. Control equipment is not considered federally enforceable until it has been required in a federally enforceable permit.

Process/Emission Unit	Potential To Emit of Proposed Revision (tons/year)							
	PM	PM10	SO ₂	NO _x	VOC	CO	Total HAPs	Worst Single HAP
Total PTE of Proposed Revision	*80.06	**25.44	0.0	0.0	0.0	0.0	0.0	0.0
*PM PTE of Proposed Revision = PM PTE of the Entire Source After Issuance (175.19 tons/yr) - PM PTE of Entire Source Before Revision (95.13 tons/yr) **PM10 PTE of Proposed Revision = PM10 PTE of the Entire Source After Issuance (99.3 tons/yr) - PM PTE of Entire Source Before Revision (73.86 tons/yr)								

This FESOP is being revised through a FESOP Significant Permit Revision pursuant to 326 IAC 2-8-11.1(g)(2) because it involves adjustment to the existing source-wide emissions limitations to maintain the FESOP status of the source (see PTE of the Entire Source After The Issuance of the FESOP Revision Section).

PTE of the Entire Source After Issuance of the FESOP Revision

The table below summarizes the potential to emit of the entire source (reflecting adjustment of existing limits), with updated emissions shown as **bold** values and previous emissions shown as ~~strikethrough~~ values.

Process/Emission Unit	Potential To Emit of the Entire Source (tons/year)							
	PM	PM10	SO ₂	NO _x	VOC	CO	Total HAPs	Worst Single HAP
Grain Receiving, Handling, Storage, and Loadout	Less than 2.55	Less than 2.55	0.0	0.0	0.0	0.0	0.0	0.0
Fugitive Grain Receiving and Loadout	Less than 2.74 10.16	Less than 0.65 3.09	0.0	0.0	0.0	0.0	0.0	0.0
Uncontrolled Storage Tanks (EU109 FS104) and the Conveyors (EU110 FS103)	Less than 5.78 30.10	Less than 2.74 14.11	0.0	0.0	0.0	0.0	0.0	0.0
Tank Reclaim Conveyor (C5)	Less than 1.88	Less than 1.88	0.0	0.0	0.0	0.0	0.0	0.0
Grain Dryer (EU100)	Less than 42.4 46.28	Less than 3.32 11.85	Less than 0.02	Less than 4.00	Less than 0.22	Less than 3.36	0.08	negl.
Grain Storage Piles (Fugitive)	0.05 1.36	0.03 0.64	0.0	0.0	0.0	0.0	0.0	0.0

Process/Emission Unit	Potential To Emit of the Entire Source (tons/year)							
	PM	PM10	SO ₂	NO _x	VOC	CO	Total HAPs	Worst Single HAP
PSD Major Source Thresholds	250	250	250	250	250	250	NA	NA
negl. = negligible *These emissions are based upon FESOP SPR ATSD No. 107-24506-00061								

(a) FESOP Status

This revision to an existing Title V minor stationary source will not change the minor status, because the potential to emit criteria pollutants from the entire source will still be limited to less than the Title V major source threshold levels. Therefore, the source will still be subject to the provisions of 326 IAC 2-8 (FESOP).

In order to comply with the requirements of 326 IAC 2-8-4 (FESOP), the source shall comply with the following:

- (1) The source shall comply with the following revised throughput rate limits:

Unit ID	Unit Description	Throughput Limits (tons of grain per twelve (12) consecutive month period)
EU101	Grain Receiving	1,344,000 of corn, wheat, and soybeans 1,680,000
EU101	Grain Receiving	56,000 of soybean
EU108	Grain Loadout	84,000 of corn, wheat, and soybean 1,680,000
EU109 FS104	Grain Storage Tanks	496,000 of corn and wheat 700,000
EU109	Grain Storage Tanks	56,000 of soybean
EU110 FS103	Storage Tank Conveyors	496,000 of corn and wheat 700,000
EU110	Storage Tank Conveyors	56,000 of soybean
EU100	Grain Dryer	267,400 of corn and wheat 420,000
EU100	Grain Dryer	2,800 of soybean

Unit ID	Unit Description	Throughput Limits (tons of grain per twelve (12) consecutive month period)
EU101	Grain Receiving	1,680,000
EU108	Grain Loadout	1,680,000
FS104	Grain Storage Tanks	700,000
FS103	Storage Tank Conveyors	700,000
EU100	Grain Dryer	420,000

- (2) The source shall continue comply with the following emission limitations (Note: this revision did not require any modifications to the existing limits):

- (a) The PM and PM10 emissions from baghouses BH1 and BH2, which are used to control the emissions from the grain receiving (EU101), handling (EU102 - EU107, C8, C5, EU113, and EU114), and loadout (EU108) operations shall not exceed the emission limits listed in the table below (Note: this revision did not require any modifications to the existing PM/PM10 Limits):

Unit ID	Unit Description	Control Device	PM/PM10 Emission Limit (lbs/hr)		
EU101	Grain Receiving	Baghouse BH1	0.58		
EU102 EU103 EU104 C8 EU113 EU114	Grain Handling				
EU105 EU106	Grain Storage				
EU107	Grain Mechanical Screener				
EU108	Grain Loadout				
C5	Tank Reclaim Conveyor			Baghouse BH2	0.43

Unit ID	Unit Description	PM Emission Limit (lbs/ton)	PM10 Emission Limit (lbs/ton)
FS104	Grain Storage Tanks	0.025	0.0063
FS103	Storage Tank Conveyors	0.061	0.0340
EU100	Grain Dryer	0.22	0.0550

- (b) The amount of natural gas combusted in the grain dryer (EU100) shall not exceed 80 million cubic feet (MMCF) per twelve (12) consecutive month period with compliance determined at the end of each month.
- (c) NOx emissions from the grain dryer (EU100) shall not exceed 100 pounds per million cubic foot (lbs/MMCF).
- (d) CO emissions from the grain dryer (EU100) shall not exceed 84 pounds per million cubic foot (lbs/MMCF).
- (e) The Permittee shall use periodic sweeping to control PM and PM10 emissions from the paved roads. The sweeping shall be applied in a manner and at a frequency sufficient to ensure compliance with 326 IAC 2-2.
- (f) The Permittee shall not use anti-skid materials, rock salt, or other chemical deicers, to remove ice and snow from source hauling roads or parking areas. The Permittee shall remove ice from the roadways only with a plow.

Compliance with these limits, combined with the potential to emit PM, PM10, NOx, and CO from all other emission units and the potential to emit PM and PM10 from ASA Linden, LLC (Plant ID #107-00061), shall limit the source-wide total potential to emit of PM to less than 250 tons per 12 consecutive month period and PM10, NOx, and CO to less than 100 tons per 12 consecutive month period, each, and shall render 326 IAC 2-7 (Part 70 Permits) and 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) not applicable.

- (b) PSD Minor Source
 This modification to an existing PSD minor stationary source will not change the PSD minor status, because the potential to emit of all attainment regulated pollutants from the entire source will continue to be less than the PSD major source threshold levels. Therefore, pursuant to 326

IAC 2-2, the PSD requirements do not apply (See FESOP Status above).

Federal Rule Applicability Determination

New Source Performance Standards (NSPS)

- (a) There are no New Source Performance Standards (NSPS)(40 CFR Part 60) included for this proposed revision.

National Emission Standards for Hazardous Air Pollutants (NESHAP)

- (b) There are no National Emission Standards for Hazardous Air Pollutants (NESHAPs) (326 IAC 14, 326 IAC 20 and 40 CFR Part 63) included for this proposed revision.

Compliance Assurance Monitoring (CAM)

- (c) Pursuant to 40 CFR 64.2, Compliance Assurance Monitoring (CAM) is not included in the permit, because the potential to emit of the source is limited to less than the Title V major source thresholds and the source is not required to obtain a Part 70 or Part 71 permit.

State Rule Applicability Determination

The following state rules are applicable to the proposed revision:

- (a) 326 IAC 2-8-4 (FESOP)
This revision to an existing Title V minor stationary source will not change the minor status, because the potential to emit criteria pollutants from the entire source will still be limited to less than the Title V major source threshold levels. Therefore, the source will still be subject to the provisions of 326 IAC 2-8 (FESOP). See PTE of the Entire Source After Issuance of the FESOP Revision Section above.
- (b) 326 IAC 2-2 (Prevention of Significant Deterioration(PSD))
This modification to an existing PSD minor stationary source will not change the PSD minor status, because the potential to emit of all attainment regulated pollutants from the entire source will continue to be less than the PSD major source threshold levels. Therefore, pursuant to 326 IAC 2-2, the PSD requirements do not apply. See PTE of the Entire Source After Issuance of the FESOP Revision Section above.
- (c) 326 IAC 2-4.1 (Major Sources of Hazardous Air Pollutants (HAP))
The proposed revision is not subject to the requirements of 326 IAC 2-4.1, because the HAPs limits are maintained to be less than ten (10) tons per year for a single HAP and less than twenty-five (25) tons per year for any combination of HAPs for the entire source.
- (d) 326 IAC 2-6 (Emission Reporting)
Pursuant to 326 IAC 2-6-1, this source is not subject to this rule, because it is not required to have an operating permit under 326 IAC 2-7 (Part 70), it is not located in Lake, Porter, or LaPorte County, and it does not emit lead into the ambient air at levels equal to or greater than 5 tons per year. Therefore, 326 IAC 2-6 does not apply.
- (e) 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 this permit:
- (1) 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.

- (2) 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.
- (g) 326 IAC 6-4 (Fugitive Dust Emissions Limitations)
Pursuant to 326 IAC 6-4 (Fugitive Dust Emissions Limitations), the source shall not allow fugitive dust to escape beyond the property line or boundaries of the property, right-of-way, or easement on which the source is located, in a manner that would violate 326 IAC 6-4.
- (h) 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes)
This revision did not require any modifications to the existing 326 IAC 6-3-2 particulate emission rates. Therefore, the source shall continue to comply with the applicable 326 IAC 6-3-2 permit conditions as contained in FESOP No. F107-21971-00009.

Compliance Determination, Monitoring and Testing Requirements

The existing compliance requirements will not change because of this revision. The source shall continue to comply with the applicable requirements and permit conditions as contained in FESOP No: 107-21971-00009, issued on March 1, 2006.

Proposed Changes

- (a) The following changes listed below are due to the proposed revision. Deleted language appears as ~~strike through~~ text and new language appears as **bold** text:
- (1) Section A.1 is revised to reflect that this source is no longer considered one of the twenty-eight (28) listed source categories under 326 IAC 2-2, 326 IAC 2-3, or 326 IAC 2-7.
- (2) All occurrences of the existing metal storage tanks (EU109) and storage tank conveyors (EU110) have been revised to be identified as FS104 and FS103, respectively.
- (3) The emission unit descriptions for the natural gas fired column grain dryer, metal storage tanks, and storage tank conveyors contained in Sections A.3 and Section D.1 have been revised to reflect that the source will no longer use mineral or soybean oil. As a result, Condition D.1.1(g) has been removed from the permit.
- (4) The total maximum throughput rate for the three existing outdoor grain storage piles has been increased from 67,200 tons/yr to 1,680,000 tons/yr in Sections A.4 and D.1.
- (5) The source was subject to the conditions found in Section D.2 prior to the startup of the ethanol plant. However, since the ethanol plant (ASA Linden, LLC Plant ID #107-00061) commenced operations on August 3, 2007, the source is now subject to the conditions found in Section D.1. As a result, Conditions D.1.1, D.1.2, D.1.6, D.1.7, D.1.8 and the FESOP Quarterly Reports have been revised to remove the following language since it is no longer necessary to differentiate between "prior to the startup of the ethanol production plant" and "upon startup of the ethanol production plant:"
- ~~upon startup of the ethanol production plant~~
- (6) The annual grain throughput limits contained in Condition D.1.1(b) has been revised.
- (7) The revised annual grain throughput limits assume that "grain" is corn, wheat, soybeans, or any other grain with similar characteristics. Therefore, the recordkeeping requirements

contained in Condition D.1.9(a) and the FESOP Quarterly Reports have been revised.

- (8) Section D.2, which contained operating conditions prior to the startup of the ethanol plant has been removed from the permit because the ethanol plant commenced operations on August 3, 2007. In addition, the FESOP Quarterly Reports required prior to startup of the ethanol plant have been removed from the permit.

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

The Permittee owns and operates a stationary grain elevator ~~for corn, wheat, or soybeans.~~

Source Address: 173 West, Country Road 1100 North, Linden, Indiana 47955
Mailing Address: 173 West, Country Road 1100 North, Linden, Indiana 47955
General Source Phone: (765) 513-6224
SIC Code: 5153
Country Location: Montgomery Country
Source Location Status: Attainment for all criteria pollutants
Source Status: Federally Enforceable State Operating Permit (FESOP)
Minor Source, under PSD Rules
Minor Source, Section 112 of the Clean Air Act
Not 1 of 28 Source Categories, based on 40 CFR 52.21 (effective July 2, 2007)

...
A.3 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) grain receiving operation, identified as EU101, constructed in 1972 and approved for modification in 2006, controlled by baghouse BH1, with emissions exhausted through Stack EP110, consisting of the following:

...
Under NSPS, Subpart DD, the grain receiving operation EU101 is considered a grain loading station. ~~Mineral oil or soybean oil is applied to the corn and wheat which will be processed in the dryer EU100 and stored in the uncontrolled storage tanks EU109.~~

- ...
(h) One (1) natural gas fired column grain dryer, identified as EU100, constructed in 1982, with a maximum heat input capacity of 32.8 MMBtu/hr and a maximum throughput rate of 87 tons of grain per hour. ~~Mineral oil or soybean oil is applied to the corn and wheat processed in this unit when it is received.~~

- (i) Three (3) metal storage tanks, identified as ~~EU109~~ **FS104**, constructed in 1972, with a total storage capacity of 1.57 million bushels and a maximum total throughput rate of 560 tons of grain per hour. ~~Mineral oil or soybean oil is applied to the corn and wheat stored in these units when it is received.~~

- (j) Three (3) storage tank conveyors, identified as ~~EU140~~ **FS103**, constructed in 1972, each with a maximum throughput rate of 560 tons of grain per hour. ~~Mineral oil or soybean oil is applied to the corn and wheat conveyed by these units when it is received.~~

...
A.4 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, as defined in 326 IAC 2-7-1(21):

- ...
(d) Other emission units, not regulated by a NESHAP, with PM10, NOx, and SO2 emissions less than five (5) pounds per hour or twenty-five (25) pounds per day, CO emissions less than twenty-five (25) pounds per day, VOC emissions less than three (3) pounds per hour or fifteen (15) pounds per day, lead emissions less than six-tenths (0.6) tons per year or

three and twenty-nine hundredths (3.29) pounds per day, and emitting greater than one (1) pound per day but less than five (5) pounds per day or one (1) ton per year of a single HAP, or emitting greater than one (1) pound per day but less than twelve and five tenths (12.5) pounds per day or two and five tenths (2.5) tons per year of any combination of HAPs:

Three (3) outdoor grain storage piles, identified as EU111, with a total maximum throughput rate of ~~67,200~~ **1,680,000** tons/yr. [326 IAC 6-4]

...

SECTION D.1 FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-8-4(10)]: Grain Receiving, Handling, and Loadout Operations

(a) One (1) grain receiving operation, identified as EU101, constructed in 1972 and approved for modification in 2006, controlled by baghouse BH1, with emissions exhausted through Stack EP110, consisting of the following:

...

Under NSPS, Subpart DD, the grain receiving operation EU101 is considered a grain loading station. ~~Mineral oil or soybean oil is applied to the corn and wheat which will be processed in the dryer EU100 and stored in the uncontrolled storage tanks EU109.~~

...

(h) One (1) natural gas fired column grain dryer, identified as EU100, constructed in 1982, with a maximum heat input capacity of 32.8 MMBtu/hr and a maximum throughput rate of 87 tons of grain per hour. ~~Mineral oil or soybean oil is applied to the corn and wheat processed in this unit when it is received.~~

(i) Three (3) metal storage tanks, identified as ~~EU109~~ **FS104**, constructed in 1972, with a total storage capacity of 1.57 million bushels and a maximum total throughput rate of 560 tons of grain per hour. ~~Mineral oil or soybean oil is applied to the corn and wheat stored in these units when it is received.~~

(j) Three (3) storage tank conveyors, identified as ~~EU110~~ **FS103**, constructed in 1972, each with a maximum throughput rate of 560 tons of grain per hour. ~~Mineral oil or soybean oil is applied to the corn and wheat conveyed by these units when it is received.~~

...

Insignificant Activities:

...

(d) Other emission units, not regulated by a NESHAP, with PM10, NOx, and SO2 emissions less than five (5) pounds per hour or twenty-five (25) pounds per day, CO emissions less than twenty-five (25) pounds per day, VOC emissions less than three (3) pounds per hour or fifteen (15) pounds per day, lead emissions less than six-tenths (0.6) tons per year or three and twenty-nine hundredths (3.29) pounds per day, and emitting greater than one (1) pound per day but less than five (5) pounds per day or one (1) ton per year of a single HAP, or emitting greater than one (1) pound per day but less than twelve and five tenths (12.5) pounds per day or two and five tenths (2.5) tons per year of any combination of HAPs:

Three (3) outdoor grain storage piles, identified as EU111, with a total maximum throughput rate of ~~67,200~~ **1,680,000** tons/yr. [326 IAC 6-4]

...

D.1.1 FESOP and PSD Minor Limitations [326 IAC 2-2] [326 IAC 2-8-4]

The Permittee shall comply with the following limits upon startup of the ethanol production plant:

...

(b) The Permittee shall comply with the following throughput rate limits:

Unit ID	Unit Description	Throughput Limits (tons of grain per twelve (12) consecutive month period)
EU101	Grain Receiving	1,344,000 of corn, wheat, and soybeans 1,680,000
EU101	Grain Receiving	56,000 of soybean
EU108	Grain Loadout	84,000 of corn, wheat, and soybean 1,680,000
EU109 FS104	Grain Storage Tanks	196,000 of corn and wheat 700,000
EU109	Grain Storage Tanks	56,000 of soybean
EU110 FS103	Storage Tank Conveyors	196,000 of corn and wheat 700,000
EU110	Storage Tank Conveyors	56,000 of soybean
EU100	Grain Dryer	267,400 of corn and wheat 420,000
EU100	Grain Dryer	2,800 of soybean

(c) The Permittee shall comply with the following emission limitations for PM and PM10 emissions:

Unit ID	Unit Description	PM Emission Limit (lbs/ton)	PM10 Emission Limit (lbs/ton)
EU109 FS104	Grain Storage Tanks	0.025	0.0063
EU110 FS103	Storage Tank Conveyors	0.061	0.0340
EU100	Grain Dryer	0.22	0.0550

...

~~(g) The Permittee shall apply mineral oil or soybean oil to the corn and wheat that will be processed in the dryer EU100 or stored in the uncontrolled storage tanks EU109.~~

(hg) The Permittee shall use periodic sweeping to control PM and PM10 emissions from the paved roads. The sweeping shall be applied in a manner and at a frequency sufficient to ensure compliance with 326 IAC 2-2.

(ih) The Permittee shall not use anti-skid materials, rock salt, or other chemical deicers, to remove ice and snow from source hauling roads or parking areas. The Permittee shall remove ice from the roadways only with a plow.

Compliance with these limits, Gcombined with the potential to emit PM, PM10, NOx, and CO emissions from all other emission units and the potential to emit PM and PM10 emissions from ASA Linden, LLC (Plant ID #107-00061), shall limit the source-wide total potential to emit of PM to less than 250 tons per 12 consecutive month period and PM/PM10, NOx, and CO emissions from the entire source are limited to less than 100 tons/yr. per 12 consecutive month period, and shall render Therefore, the requirements of 326 IAC 2-7 (Part 70 Program Permits) and 326 IAC 2-2 (PSD) are not applicable.

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

The Permittee shall comply with the following limits upon startup of the ethanol production plant:

...

Unit ID	Unit Description	Maximum Throughput Rate (tons/hr)	Control Device	326 IAC 6-3-2 Total Allowable Particulate Emission Rate (lbs/hr)
...				
EU109 FS104	Each Metal Storage Tank	560	None	70.3
EU110 FS103	Each Storage Tank Conveyor	560	None	70.3

...

D.1.9 Record Keeping Requirements

- (a) To document compliance with Condition D.1.1(b), the Permittee shall maintain monthly records of the following:
- (1) The amount of ~~corn and wheat~~ **grain** received in the grain receiving operation (EU101);
 - ~~(2) The amount of soybean received in the grain receiving operation (EU101);~~
 - ~~(3) The amount of grain shipped out in the grain loadout operation (EU108);~~
 - ~~(4) The amount of grain stored in the grain storage tanks (EU109 FS104);~~
 - ~~(5) The amount of grain handled in the storage tank conveyors (EU110 FS103); and~~
 - ~~(6) The amount of grain input to the grain dryer (EU100).~~
- (b) To document compliance with Condition D.1.1(d), the Permittee shall maintain monthly records of natural gas usage in the grain dryer (EU100).
- (c) To document compliance with Condition D.1.1(hg), the Permittee shall maintain records of the dates and times that sweeping is performed on the paved roads.

...

SECTION D.2 FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-8-4(10)]: Grain Receiving, Handling, and Loadout Operations

(a) ~~One (1) grain receiving operation, identified as EU101, constructed in 1972 and approved for modification in 2006, controlled by baghouse BH1, with emissions exhausted through Stack EP110, consisting of the following:~~

- ~~(1) One (1) truck dump pit, with a maximum capacity of 840 tons of grain per hour.~~
- ~~(2) One (1) truck/railcar dump pit, with a maximum capacity of 840 tons of grain per hour.~~

~~Under NSPS, Subpart DD, the grain receiving operation EU101 is considered a grain loading station. Mineral oil or soybean oil is applied to the corn and wheat which will be processed in the dryer EU100 and stored in the uncontrolled storage tanks EU109.~~

(b) ~~One (1) grain leg handling system, identified as EU102, constructed in 1972 and approved for modification in 2006, controlled by baghouse BH1, with emissions exhausted through Stack EP110, and consisting of the following:~~

SECTION D.2 FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-8-4(10)]: Grain Receiving, Handling, and Loadout Operations

(1) ~~Two (2) enclosed transfer legs associated with the grain dump pits, identified as Leg 1 and Leg 2, each with a maximum throughput rate of 840 tons of grain per hour.~~

(2) ~~Two (2) enclosed transfer legs associated with the grain dryer, identified as Leg 3 and Leg 4, each with a maximum throughput rate of 140 tons of grain per hour.~~

~~Under NSPS, Subpart DD, the grain leg handling system EU102 is considered a grain handling operation.~~

(c) ~~One (1) enclosed conveyor system, identified as EU103, constructed in 1972 and approved for modification in 2006, controlled by baghouse BH1, with emissions exhausted through Stack EP110, and consisting of the following:~~

(1) ~~Four (4) enclosed conveyors, identified as C1, C2, C7, and C9, each with a maximum throughput rate of 840 tons of grain per hour.~~

(2) ~~Five (5) enclosed conveyors which transfers grain to ASA Linden, LLC, identified as EC1 through EC5, with a maximum throughput rate of 420 tons of grain per hour.~~

~~Under NSPS, Subpart DD, the enclosed conveyor system EU103 is considered a grain handling operation.~~

(d) ~~One (1) drag conveyor system, identified as EU104, constructed in 1972 and approved for modification in 2006, controlled by baghouse BH1, with emissions exhausted through Stack EP110, and consisting of four (4) enclosed drag conveyors (identified as DC1, DC2, DC4, and DC5), each with a maximum throughput rate of 140 tons of grain per hour. Under NSPS, Subpart DD, the drag conveyor system EU104 is considered a grain handling operation.~~

(e) ~~Seven (7) headhouse storage bins and one (1) metal storage tank, identified as EU105, constructed in 1972, with a total storage capacity of 725,625 bushels, and with a total maximum throughput rate of 840 tons of grain per hour, indirectly controlled by baghouse BH1, with emissions exhausted through Stack EP110.~~

(f) ~~Eight (8) annex storage bins, identified as EU106, constructed in 1972, with a total storage capacity of 557,800 bushels and with a total maximum throughput rate of 840 tons of grain per hour, indirectly controlled by baghouse BH1, with emissions exhausted through Stack EP110.~~

(g) ~~One (1) enclosed grain mechanical screener, identified as EU107, constructed in 1972 and approved for modification in 2006, with a maximum throughput rate of 420 tons of grain per hour, indirectly controlled by baghouse BH1, with emissions exhausted through Stack EP110. Under NSPS, Subpart DD, the grain mechanical screener EU107 is considered a grain handling operation.~~

(h) ~~One (1) natural gas fired column grain dryer, identified as EU100, constructed in 1982, with a maximum heat input capacity of 32.8 MMBtu/hr and a maximum throughput rate of 87 tons of grain per hour. Mineral oil or soybean oil is applied to the corn and wheat processed in this unit when it is received.~~

(i) ~~Three (3) metal storage tanks, identified as EU109, constructed in 1972, with a total storage capacity of 1.57 million bushels and a maximum total throughput rate of 560 tons of grain per hour. Mineral oil or soybean oil is applied to the corn and wheat stored in these units when it is received.~~

SECTION D.2 FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-8-4(10)]: Grain Receiving, Handling, and Loadout Operations

- (j) ~~Three (3) storage tank conveyors, identified as EU110, constructed in 1972, each with a maximum throughput rate of 560 tons of grain per hour. Mineral oil or soybean oil is applied to the corn and wheat conveyed by these units when it is received.~~
- (k) ~~One (1) grain loadout operation, identified as EU108, constructed in 1972 and approved for modification in 2006, controlled by baghouse BH1, with emissions exhausted through Stack EP110, consisting of the following:
 - (1) ~~One (1) railcar loadout operation, with a maximum throughput rate of 1,120 tons of grain per hour.~~
 - (2) ~~One (1) truck loadout operation, with a maximum throughput rate of 840 tons of grain per hour.~~Under NSPS, Subpart DD, the grain loadout operation EU108 is considered a grain unloading station.~~
- (l) ~~One (1) tank reclaim conveyor, identified as C5, constructed in 1972 and approved for modification in 2006, with a maximum throughput rate of 840 tons of grain per hour, controlled by baghouse BH2, with emissions exhausted through Stack EP120. Under NSPS, Subpart DD, the reclaim conveyor C5 is considered a grain handling operation.~~
- (m) ~~One (1) annex bin reclaim conveyor, identified as C8, constructed in 1972 and approved for modification in 2006, with a maximum throughput rate of 840 tons of grain per hour, controlled by baghouse BH1, with emissions exhausted through Stack EP110. Under NSPS, Subpart DD, the reclaim conveyor C8 is considered a grain handling operation.~~
- (n) ~~One (1) enclosed headhouse distributor, identified as EU113, constructed in 1972 and approved for modification in 2006, with a maximum throughput rate of 840 tons of grain per hour, indirectly controlled by baghouse BH1, with emissions exhausted through Stack EP110. Under NSPS, Subpart DD, the headhouse distributor EU113 is considered a grain handling operation.~~
- (o) ~~One (1) enclosed annex distributor, identified as EU114, constructed in 1972 and approved for modification in 2006, with a maximum throughput rate of 840 tons of grain per hour, indirectly controlled by baghouse BH1, with emissions exhausted through Stack EP110. Under NSPS, Subpart DD, the annex distributor EU114 is considered a grain handling operation.~~

Insignificant Activities:

- (c) ~~Paved roads and parking lots with public access. [326 IAC 6-4]~~
- (d) ~~Other emission units, not regulated by a NESHAP, with PM10, NOx, and SO2 emissions less than five (5) pounds per hour or twenty-five (25) pounds per day, CO emissions less than twenty-five (25) pounds per day, VOC emissions less than three (3) pounds per hour or fifteen (15) pounds per day, lead emissions less than six-tenths (0.6) tons per year or three and twenty-nine hundredths (3.29) pounds per day, and emitting greater than one (1) pound per day but less than five (5) pounds per day or one (1) ton per year of a single HAP, or emitting greater than one (1) pound per day but less than twelve and five tenths (12.5) pounds per day or two and five tenths (2.5) tons per year of any combination of HAPs:~~

SECTION D.2 FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-8-4(10)]: Grain Receiving, Handling, and Loadout Operations

Three (3) outdoor grain storage piles, identified as EU111, with a total maximum throughput rate of 67,200 tons/yr. [326 IAC 6-4]

(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 FESOP and PSD Minor Limitations [326 IAC 2-2] [326 IAC 2-8-4]

The Permittee shall comply with the following limits prior to startup of the ethanol production plant:

- (a) The PM and PM10 emissions from baghouses BH1 and BH2, which are used to control the emissions from the grain receiving (EU101), handling (EU102 - EU107, C8, C5, EU113, and EU114), and loadout (EU108) operations shall not exceed the emission limits listed in the table below:

Unit ID	Unit Description	Control Device	PM/PM10 Emission Limit (lbs/hr)
EU104	Grain Receiving	Baghouse-BH1	0.58
EU102 EU103 EU104 C8 EU113 EU114	Grain Handling		
EU105 EU106	Grain Storage		
EU107	Grain Mechanical Screener		
EU108	Grain Loadout		
C5	Tank Reclaim Conveyor		

- (b) The Permittee shall comply with the following throughput rate limits:

Unit ID	Unit Description	Throughput Limits (tons per twelve (12) consecutive month period)
EU104	Grain Receiving	1,344,000 of corn, wheat, and soybeans
EU104	Grain Receiving	56,000 of soybean
EU108	Grain Loadout	280,000 of corn, wheat, and soybean
EU109	Grain Storage Tanks	267,400 of corn, wheat, and soybean
EU110	Storage Tank Conveyors	267,400 of corn, wheat, and soybean
EU100	Grain Dryer	267,400 of corn and wheat
EU100	Grain Dryer	2,800 of soybean

- (c) The Permittee shall comply with the following emission limitations for PM and PM10 emissions:

Unit ID	Unit Description	PM Emission Limit (lbs/ton)	PM10 Emission Limit (lbs/ton)
EU109	Grain Storage Tanks	0.025	0.0063
EU110	Storage Tank Conveyors	0.061	0.0340
EU100	Grain Dryer	0.22	0.0550

- (d) — The amount of natural gas combusted in the grain dryer (EU100) shall not exceed 80 million cubic feet (MMCF) per twelve (12) consecutive month period with compliance determined at the end of each month.
- (e) — NOx emissions from the grain dryer (EU100) shall not exceed 100 pounds per million cubic foot (lbs/MMCF).
- (f) — CO emissions from the grain dryer (EU100) shall not exceed 84 pounds per million cubic foot (lbs/MMCF).
- (g) — The Permittee shall apply mineral oil or soybean oil to the corn and wheat that will be processed in the dryer EU100 or stored in the uncontrolled storage tanks EU109.
- (h) — The Permittee shall use periodic sweeping to control PM and PM10 emissions from the paved roads. The sweeping shall be applied in a manner and at a frequency sufficient to ensure compliance with 326 IAC 2-2.

Combined with the PM/PM10, NOx, and CO emissions from other emission units and the PM/PM10 emissions from ASA Linden, LLC (Plant ID #107-00061), the PM/PM10, NOx, and CO emissions from the entire source are limited to less than 100 tons/yr. Therefore, the requirements of 326 IAC 2-7 (Part 70 Program) and 326 IAC 2-2 (PSD) are not applicable.

D.2.2 Particulate Emission Limitations [326 IAC 6-3-2]

The Permittee shall comply with the following limits prior to startup of the ethanol production plant:

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

Unit ID	Unit Description	Maximum Throughput Rate (tons/hr)	Control Device	326 IAC 6-3-2 Total Allowable Particulate Emission Rate (lbs/hr)
EU101	Dump Pit 1	840	Baghouse BH1	417.4
	Dump Pit 2	840		
EU102	Grain Leg 1	840		
	Grain Leg 2	840		
	Grain Leg 3	440		
	Grain Leg 4	440		
EU103	Enclosed Conveyor C1	840		
	Enclosed Conveyor C2	840		
	Enclosed Conveyor C7	840		
	Enclosed Conveyor C9	840		
	Enclosed Conveyors EC1-EC5	420		
EU104	Drag Conveyor DC1	440		
	Drag Conveyor DC2	440		
	Drag Conveyor DC4	440		
	Drag Conveyor DC5	440		
EU105	Headhouse Storages Bins 1-7 and one (1) metal storage tank	840		
EU106	Annex Storage Bins 8-15	840		
EU107	Grain Mechanical Screener	420		
EU108	Railcar Grain Loadout Station	1,120		

	Truck Grain Loadout Station	840		
C8	Annex Bin Reclaim Conveyor	840		
EU113	Headhouse Distributor	840		
EU114	Annex Distributor	840		
C5	Tank Reclaim Conveyor	840	Baghouse BH2	75.4
EU100	Grain Dryer	79	None	48.9
EU109	Each Metal Storage Tank	560	None	70.3
EU110	Each Storage Tank Conveyor	560	None	70.3

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

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:

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

Pursuant to 326 IAC 6-3-2(e)(3), when the process weight exceeds 200 tons per hour, the maximum allowable emission may exceed the emission limits shown in the table above, provided the concentration of particulate matter in the gas discharged to the atmosphere is less than 0.10 pounds per 1,000 pounds of gases.

~~D.2.3 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 any control devices.~~

Compliance Determination Requirements

~~D.2.4 Particulate Control~~

~~(a) In order to comply with Conditions D.2.1(a) and D.2.2, each of the following emission units shall be controlled by the associated baghouse, as listed in the table below, when these units are in operation:~~

Unit ID	Unit Description	Baghouse ID
EU101	Each Dump Pit	BH1
EU102	Grain Leg Handling	BH1
EU103	Enclosed Conveyor System	BH1
EU104	Drag Conveyor System	BH1
EU105	Each Headhouse Storage Bin and one (1) metal storage tank	BH1
EU106	Each Annex Storage Bin	BH1
EU107	Grain Mechanical Screener	BH1
EU108	Each Grain Loadout Station	BH1
C8	Annex Bin Reclaim Conveyor	BH1
C5	Tank Reclaim Conveyor	BH2
EU113	Headhouse Distributor	BH1
EU114	Annex Distributor	BH1

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

~~D.2.5 Testing Requirements [326 IAC 2-8-5(a)(1), (4)] [326 IAC 2-1.1-11]~~

~~In order to demonstrate compliance with Condition D.2.1(a), the Permittee shall perform PM and PM10 testing for baghouses BH1 and BH2 within 60 days after achieving the maximum capacity for the entire source, but not later than 180 days after initial startup of the entire source, utilizing methods as approved by the Commissioner. These tests shall be repeated at least once every five (5) years from the date of this valid compliance demonstration. Testing shall be conducted in accordance with Section C - Performance Testing. PM-10 includes filterable and condensable PM-10.~~

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

~~D.2.6 Visible Emissions Notations~~

~~The Permittee shall comply with the following prior to startup of the ethanol production plant:~~

- ~~(a) Visible emission notations of the baghouse stack exhausts (stacks EP110 and EP120) 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.2.7 Parametric Monitoring~~

~~The Permittee shall comply with the following prior to startup of the ethanol production plant:~~

~~The Permittee shall record the pressure drop across each of the baghouses (BH1 and BH2) used in conjunction with the grain receiving operation (EU101), the grain handling operations (EU102 through EU107, C8, C5, EU113, and EU114) and the grain loadout operation (EU108), at least once per day when these units are in operation. When for any one reading, the pressure drop across the baghouse is outside the normal range of 1.0 to 6.0 inches of water or a range established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C - 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.~~

~~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.2.8 Broken or Failed Bag Detection~~

~~The Permittee shall comply with the following prior to startup of the ethanol production plant:~~

- ~~(a) For a single compartment baghouse controlling emissions from a process operated~~

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

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

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

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

~~D.2.9 Record Keeping Requirements~~

- ~~(a) To document compliance with Condition D.2.1(b), the Permittee shall maintain monthly records of the following:~~
- ~~(1) The amount of corn and wheat received in the grain receiving operation (EU101);~~
 - ~~(2) The amount of soybean received in the grain receiving operation (EU101);~~
 - ~~(3) The amount of grain shipped out in the grain loadout operation (EU108);~~
 - ~~(4) The amount of grain stored in the grain storage tanks (EU109);~~
 - ~~(5) The amount of grain handled in the storage tank conveyors (EU110); and~~
 - ~~(6) The amount of grain input to the grain dryer (EU100).~~
- ~~(b) To document compliance with Condition D.2.1(d), the Permittee shall maintain monthly records of natural gas usage in the grain dryer (EU100).~~
- ~~(c) To document compliance with Condition D.2.1(h), the Permittee shall maintain records of the dates and times that sweeping is performed on the paved roads.~~
- ~~(d) To document compliance with Condition D.2.6, the Permittee shall maintain a daily record of visible emission notations for each of the baghouse stack exhausts. The Permittee shall include in its daily record when a visible emission notation is not taken and the reason for the lack of visible emission notation (e.g. the process did not operate that day).~~
- ~~(e) To document compliance with Condition D.2.7, the Permittee shall maintain a daily record of pressure drop for each of the baghouses during normal operation. The Permittee shall include in its daily record when a pressure drop reading is not taken and the reason for the lack of a pressure drop reading (e.g. the process did not operate that day).~~
- ~~(f) All records shall be maintained in accordance with Section C – General Record Keeping Requirements, of this permit.~~

~~D.2.10 Reporting Requirements~~

~~A quarterly summary of the information to document compliance with Conditions D.2.1(b) and D.2.1(d) 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).~~

~~New Source Performance Standards (NSPS) [326 IAC 12]~~

~~D.2.11 General Provisions Relating to NSPS [326 IAC 12-1] [40 CFR 60, Subpart A]~~

- ~~(a) The provisions of 40 CFR 60, Subpart A — General Provisions, which are incorporated as 326 IAC 12-1, apply to the grain receiving operation (EU101), the grain handling operation (EU102 through EU104, EU107, C8, C5, EU113, and EU114), and the grain loadout operation (EU108) except when otherwise specified in 40 CFR 60, Subpart DD.~~
- ~~(b) Pursuant to 40 CFR 60.10, the Permittee shall submit all required notifications and reports 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~~

~~D.2.12 New Source Performance Standards for Grain Elevators Requirements [40 CFR Part 60, Subpart DD] [326 IAC 12]~~

~~Pursuant to 40 CFR Part 60, Subpart DD, the Permittee shall comply with the provisions of New Source Performance Standards for Grain Elevators, which are incorporated by reference as 326 IAC 12, for the grain receiving operation (EU101), the grain handling operation (EU102 through EU104, EU107, C8, C5, EU113, and EU114), and the grain loadout operation (EU108) as follows:~~

~~§ 60.300 Applicability and designation of affected facility.~~

~~(a) The provisions of this subpart apply to each affected facility at any grain terminal elevator or any grain storage elevator, except as provided under §60.304(b). The affected facilities are each truck unloading station, truck loading station, barge and ship unloading station, barge and ship loading station, railcar loading station, railcar unloading station, grain dryer, and all grain handling operations.~~

~~(b) Any facility under paragraph (a) of this section which commences construction, modification, or reconstruction after August 3, 1978, is subject to the requirements of this part.~~

~~§ 60.301 Definitions.~~

~~As used in this subpart, all terms not defined herein shall have the meaning given them in the Act and in subpart A of this part.~~

~~(a) Grain means corn, wheat, sorghum, rice, rye, oats, barley, and soybeans.~~

~~(b) Grain elevator means any plant or installation at which grain is unloaded, handled, cleaned, dried, stored, or loaded.~~

~~(c) Grain terminal elevator means any grain elevator which has a permanent storage capacity of more than 88,100 m³ (ca. 2.5 million U.S. bushels), except those located at animal food manufacturers, pet food manufacturers, cereal manufacturers, breweries, and livestock feedlots.~~

~~(d) Permanent storage capacity means grain storage capacity which is inside a building, bin, or silo.~~

~~(e) Railcar means railroad hopper car or boxcar.~~

~~(f) Grain storage elevator means any grain elevator located at any wheat flour mill, wet corn mill, dry corn mill (human consumption), rice mill, or soybean oil extraction plant which has a permanent grain storage capacity of 35,200 m³ (ca. 1 million bushels).~~

~~(g) Process emission means the particulate matter which is collected by a capture system.~~

~~(h) Fugitive emission means the particulate matter which is not collected by a capture system and is released directly into the atmosphere from an affected facility at a grain elevator.~~

~~(i) Capture system means the equipment such as sheds, hoods, ducts, fans, dampers, etc. used to collect particulate matter generated by an affected facility at a grain elevator.~~

~~(j) Grain unloading station means that portion of a grain elevator where the grain is transferred from a truck, railcar, barge, or ship to a receiving hopper.~~

~~(k) Grain loading station means that portion of a grain elevator where the grain is transferred from the elevator to a truck, railcar, barge, or ship.~~

~~(l) Grain handling operations include bucket elevators or legs (excluding legs used to unload barges or ships), scale hoppers and surge bins (garners), turn heads, scalpors, cleaners, trippers, and the headhouse and other such structures.~~

~~(m) Column dryer means any equipment used to reduce the moisture content of grain in which the grain flows from the top to the bottom in one or more continuous packed columns between two perforated metal sheets.~~

~~(n) Rack dryer means any equipment used to reduce the moisture content of grain in which the grain flows from the top to the bottom in a cascading flow around rows of baffles (racks).~~

~~(o) Unloading leg means a device which includes a bucket type elevator which is used to remove grain from a barge or ship.~~

~~§ 60.302 Standard for particulate matter.~~

~~(b) On and after the date on which the performance test required to be conducted by §60.8 is completed, no owner or operator subject to the provisions of this subpart shall cause to be discharged into the atmosphere from any affected facility except a grain dryer any process emission which:~~

~~(1) Contains particulate matter in excess of 0.023 g/dscm (ca. 0.01 gr/dscf).~~

~~(2) Exhibits greater than 0 percent opacity.~~

~~(c) On and after the 60th day of achieving the maximum production rate at which the affected facility will be operated, but no later than 180 days after initial startup, no owner or operator subject to the provisions of this subpart shall cause to be discharged into the atmosphere any fugitive emission from:~~

~~(1) Any individual truck unloading station, railcar unloading station, or railcar loading station, which exhibits greater than 5 percent opacity.~~

~~(2) Any grain handling operation which exhibits greater than 0 percent opacity.~~

~~(3) Any truck loading station which exhibits greater than 10 percent opacity.~~

~~§ 60.303 Test methods and procedures.~~

~~(a) In conducting the performance tests required in §60.8, the owner or operator shall use as reference methods and procedures the test methods in appendix A of this part or other methods and procedures as specified in this section, except as provided in §60.8(b). Acceptable alternative methods and procedures are given in paragraph (c) of this section.~~

~~(b) The owner or operator shall determine compliance with the particulate matter standards in §60.302 as follows:~~

~~(1) Method 5 shall be used to determine the particulate matter concentration and the volumetric flow rate of the effluent gas. The sampling time and sample volume for each run shall be at least 60 minutes and 1.70 dscm (60 dscf). The probe and filter holder shall be operated without heaters.~~

~~(2) Method 2 shall be used to determine the ventilation volumetric flow rate.~~

~~(3) Method 9 and the procedures in §60.11 shall be used to determine opacity.~~

~~(c) The owner or operator may use the following as alternatives to the reference methods and procedures specified in this section:~~

~~(1) For Method 5, Method 17 may be used.~~

~~D.2.13 One Time Deadlines Relating to New Source Performance Standards for Grain Elevators [40 CFR 60, Subpart DD]~~

~~The Permittee shall comply with the following requirements by the dates listed:~~

Requirement	Rule-Cite	Affected Facility	Deadline
Initial Performance Test	40 CFR 60.303 and 40 CFR 60.8	The grain receiving operation (EU101), the grain handling operation (EU102 through EU104, EU107, C8, C5, EU113, and EU114), and the grain loadout operation (EU108)	Within 60 days after achieving the maximum production rate, but no later than 180 days after initial startup.
Notification of date of reconstruction	40 CFR 60.7(a)(1)	The grain receiving operation (EU101), the grain handling operation (EU102 through EU104, EU107, C8, C5, EU113, and EU114), and the grain loadout operation (EU108)	No later than 30 days after reconstruction
Notification of date of actual startup	40 CFR 60.7(a)(3)	The grain receiving operation (EU101), the grain handling operation (EU102 through EU104, EU107, C8, C5, EU113, and EU114), and the grain loadout operation (EU108)	Within 15 days of startup date
Notification of any physical or operational change to an existing facility not exempt under 40 CFR 60.14(e)	40 CFR 60.7(a)(4)	The grain receiving operation (EU101), the grain handling operation (EU102 through EU104, EU107, C8, C5, EU113, and EU114), and the grain loadout operation (EU108)	Within 60 days or as soon as practicable before change is commenced

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FESOP Quarterly Report

Source Name: Cargill AgHorizons – Linden Grain Elevator
 Source Address: 173 West, Country Road 1100 North, Linden, Indiana 47955
 Mailing Address: 173 West, Country Road 1100 North, Linden, Indiana 47955
 FESOP No.: 107-21971-00009

Facility: Grain Receiving Operation (EU101) **and Grain Loadout Operation (EU108)**
Parameter: Total Grain Received (~~including corn, wheat, and soybean~~) **and Shipped out (each)**
Limit: ~~Less than 1,344,000~~ **Shall not exceed 1,680,000** tons per twelve (12) consecutive month period with compliance determined at the end of each month.

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~~FESOP Quarterly Report~~

~~Source Name: Cargill AgHorizons - Linden Grain Elevator
Source Address: 173 West, Country Road 1100 North, Linden, Indiana 47955
Mailing Address: 173 West, Country Road 1100 North, Linden, Indiana 47955
FESOP No.: 107-21971-00009
Facility: Grain Receiving Operation (EU101)
Parameter: Total Soybean Received
Limit: Less than 56,000 tons per twelve (12) consecutive month period with compliance determined at the end of each month.~~

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~~FESOP Quarterly Report~~

~~Source Name: Cargill AgHorizons - Linden Grain Elevator
Source Address: 173 West, Country Road 1100 North, Linden, Indiana 47955
Mailing Address: 173 West, Country Road 1100 North, Linden, Indiana 47955
FESOP No.: 107-21971-00009
Facility: Grain Dryer (EU100)
Parameter: Total Grain Processed, Prior to Startup of the Ethanol Production Plant
Limit: Less than 267,400 tons per twelve (12) consecutive month period with compliance determined at the end of each month.~~

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~~FESOP Quarterly Report~~

~~Source Name: Cargill AgHorizons - Linden Grain Elevator
Source Address: 173 West, Country Road 1100 North, Linden, Indiana 47955
Mailing Address: 173 West, Country Road 1100 North, Linden, Indiana 47955
FESOP No.: 107-21971-00009
Facility: Grain Dryer (EU100)
Parameter: Total ~~Corn and Wheat~~ **Grain** Processed, ~~Upon Startup of the Ethanol Production Plant~~
Limit: ~~Less than 267,400~~ **Shall not exceed 420,000** tons per twelve (12) consecutive month period with compliance determined at the end of each month.~~

...

~~FESOP Quarterly Report~~

~~Source Name: Cargill AgHorizons - Linden Grain Elevator
Source Address: 173 West, Country Road 1100 North, Linden, Indiana 47955
Mailing Address: 173 West, Country Road 1100 North, Linden, Indiana 47955
FESOP No.: 107-21971-00009
Facility: Grain Dryer (EU100)
Parameter: Total Soybean Processed
Limit: Less than 2,800 tons per twelve (12) consecutive month period with compliance determined at the end of each month.~~

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~~FESOP Quarterly Report~~

~~Source Name: Cargill AgHorizons - Linden Grain Elevator
Source Address: 173 West, Country Road 1100 North, Linden, Indiana 47955
Mailing Address: 173 West, Country Road 1100 North, Linden, Indiana 47955
FESOP No.: 107-21971-00009
Facility: Metal Storage Tanks (EU109)
Parameter: Total Grain Conveyed, Prior to Startup of the Ethanol Production Plant
Limit: Less than 267,400 tons per twelve (12) consecutive month period with~~

~~compliance determined at the end of each month.~~

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FESOP Quarterly Report

Source Name: Cargill AgHorizons – Linden Grain Elevator
Source Address: 173 West, Country Road 1100 North, Linden, Indiana 47955
Mailing Address: 173 West, Country Road 1100 North, Linden, Indiana 47955
FESOP No.: 107-21971-00009
Facility: Metal Storage Tanks (EU409 **FS104**) and Storage Tank Conveyors (**FS103**)
Parameter: Total Corn and Wheat **Grain Stored and Conveyed (each)**, Upon Startup of the Ethanol Production Plant
Limit: ~~Less than 196,000~~ **Shall not exceed 700,000** tons per twelve (12) consecutive month period with compliance determined at the end of each month.

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~~FESOP Quarterly Report~~

~~Source Name: Cargill AgHorizons – Linden Grain Elevator
Source Address: 173 West, Country Road 1100 North, Linden, Indiana 47955
Mailing Address: 173 West, Country Road 1100 North, Linden, Indiana 47955
FESOP No.: 107-21971-00009
Facility: Metal Storage Tanks (EU109)
Parameter: Total Soybean Conveyed, Upon Startup of the Ethanol Production Plant
Limit: Less than 56,000 tons per twelve (12) consecutive month period with compliance determined at the end of each month.~~

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~~FESOP Quarterly Report~~

~~Source Name: Cargill AgHorizons – Linden Grain Elevator
Source Address: 173 West, Country Road 1100 North, Linden, Indiana 47955
Mailing Address: 173 West, Country Road 1100 North, Linden, Indiana 47955
FESOP No.: 107-21971-00009
Facility: Storage Tank Conveyors (EU110)
Parameter: Total Grain Conveyed, Prior to Startup of the Ethanol Production Plant
Limit: Less than 267,400 tons per twelve (12) consecutive month period with compliance determined at the end of each month.~~

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~~FESOP Quarterly Report~~

~~Source Name: Cargill AgHorizons – Linden Grain Elevator
Source Address: 173 West, Country Road 1100 North, Linden, Indiana 47955
Mailing Address: 173 West, Country Road 1100 North, Linden, Indiana 47955
FESOP No.: 107-21971-00009
Facility: Storage Tank Conveyors (EU110)
Parameter: Total Corn and Wheat Conveyed, Upon Startup of the Ethanol Production Plant
Limit: Less than 196,000 tons per twelve (12) consecutive month period with compliance determined at the end of each month.~~

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~~FESOP Quarterly Report~~

~~Source Name: Cargill AgHorizons – Linden Grain Elevator
Source Address: 173 West, Country Road 1100 North, Linden, Indiana 47955
Mailing Address: 173 West, Country Road 1100 North, Linden, Indiana 47955
FESOP No.: 107-21971-00009
Facility: Storage Tank Conveyors (EU110)
Parameter: Total Soybeans Conveyed, Upon Startup of the Ethanol Production Plant
Limit: Less than 56,000 tons per twelve (12) consecutive month period with compliance determined at the end of each month.~~

...

~~FESOP Quarterly Report~~

~~Source Name: Cargill AgHorizons – Linden Grain Elevator~~

Source Address: ~~173 West, Country Road 1100 North, Linden, Indiana 47955~~
Mailing Address: ~~173 West, Country Road 1100 North, Linden, Indiana 47955~~
FESOP No.: ~~107-21971-00009~~
Facility: ~~Grain Loadout Operation (EU108)~~
Parameter: ~~Total Grain Shipped Out, Prior to Startup of the Ethanol Production Plant~~
Limit: ~~Less than 280,000 tons per twelve (12) consecutive month period with compliance determined at the end of each month.~~

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FESOP Quarterly Report

Source Name: ~~Cargill AgHorizons - Linden Grain Elevator~~
Source Address: ~~173 West, Country Road 1100 North, Linden, Indiana 47955~~
Mailing Address: ~~173 West, Country Road 1100 North, Linden, Indiana 47955~~
FESOP No.: ~~107-21971-00009~~
Facility: ~~Grain Loadout Operation (EU108)~~
Parameter: ~~Total Grain Shipped Out, Upon Startup of the Ethanol Production Plant~~
Limit: ~~Less than 84,000 tons per twelve (12) consecutive month period with compliance determined at the end of each month.~~

Conclusion and Recommendation

Unless otherwise stated, information used in this review was derived from the application and additional information submitted by the applicant. An application for the purposes of this review was received on February 11, 2008.

The construction and operation of this proposed revision shall be subject to the conditions of the attached proposed FESOP Significant Revision No. 107-26081-00009. The staff recommends to the Commissioner that this FESOP Significant Revision be approved.

IDEM Contact

- (a) Questions regarding this proposed permit can be directed to Brian Williams at the Indiana Department Environmental Management, Office of Air Quality, Permits Branch, 100 North Senate Avenue, MC 61-53 IGCN 1003, Indianapolis, Indiana 46204-2251 or by telephone at (317) (234-5375) or toll free at 1-800-451-6027 extension (4-5375).
- (b) A copy of the findings is available on the Internet at: www.in.gov/idem/permits/air/pending.html.
- (c) For additional information about air permits and how the public and interested parties can participate, refer to the IDEM's Guide for Citizen Participation and Permit Guide on the Internet at: www.in.gov/idem/permits/guide/.

**Appendix A: Emissions Calculations
Emission Summary, Third Significant Revision (26081)**

**Company Name: Cargill AgHorizons - Linden Grain Elevator
Address: 173 West County Road 1100 North, Linden, IN 47955
Operation Permit No.: F107-21971-00009
Significant Permit Revision No.: 107-26081-00009
Reviewer: Brian Williams**

Process Description	Type of Emission	Limited Potential Emissions (After Pollution Controls) (tons/yr)							
		Criteria Pollutants						Hazardous Air Pollutants	
		PM	PM10	SO ₂	NOx	VOC	CO	Total HAPs	Worst Case HAP
Grain Receiving, Handling, Storage, and Loadout	After Control (Baghouse BH1)	2.55	2.55	0	0	0	0	0	0
Grain Receiving and Loadout	Not Captured (fugitives)	10.16	3.09	0	0	0	0	0	0
Tanks and Conveyors	Not Captured (fugitives)	30.10	14.11	0	0	0	0	0	0
Tank Reclaim Conveyor (C5)	After Control (Baghouse BH2)	1.88	1.88	0	0	0	0	0	0
Grain Dryer (EU100)	Uncontrolled Process	46.2	11.55	0	0	0	0	0	0
Grain Dryer (EU100)	Uncontrolled Combustion	0.08	0.30	0.02	4.00	0.22	3.36	0.08	neg
Grain Storage Piles (EU111)	Not Captured (fugitives)	1.36	0.64	0	0	0	0	0	0
Paved Roads	Not Captured (fugitives)	21.96	4.28	0	0	0	0	0	0
Totals		114.29	38.40	0.02	4.00	0.22	3.36	0.08	neg
Total PTE of Plant #107-00061*		60.90	60.90	81.70	95.10	90.90	95.30	(a)	
Total PTE of the Entire Source		175.19	99.30	81.72	99.10	91.12	98.66	(a)	

neg = negligible

* For details, refer to FESOP SPR No. 107-24506-00061 for the ASA Linden ethanol plant. Cargill AgHorizons and ASA Linden are considered one (1) single source

(a) Less than 8.33 for a single HAP and 15.6 for total HAPs

**Appendix A: Emission Calculations
PM and PM10 Emissions
From the Grain Receiving, Handling, and Loadout Operations**

**Company Name: Cargill AgHorizons - Linden Grain Elevator
Address: 173 West County Road 1100 North, Linden, IN 47955
Operation Permit No.: F107-21971-00009
Significant Permit Revision No.: 107-26081-00009
Reviewer: Brian Williams**

1. Potential to Emit PM/PM10 - Controlled Emissions:

Unit IDs	Process Description	Control Device	Outlet Grain Loading (gr/dscf)	Maximum Air Flow Rate (scfm)	Control Efficiency (%)	PTE of PM/PM10 before Control (tons/yr) *	PTE of PM/PM10 after Control (lbs/hr) *	PTE of PM/PM10 after Control (tons/yr) *
EU101 EU102 EU103 EU104 EU105 EU106 EU107 EU108 C8 EU113 EU114	Grain Receiving, Handling, Storage, Loadout	Baghouse BH1	0.002	34,000	99%	255	0.58	2.55
C5	Tank Reclaim Conveyor	Baghouse BH2	0.002	25,000	99%	188	0.43	1.88
Totals						443		4.43

* Assume all PM emissions equal PM10 emissions.

Methodology

PTE of PM/PM10 after Control (lbs/hr) = Grain Loading (gr/dscf) x Max. Air Flow Rate (scfm) x 60 mins/hr x 1/7000 lb/gr

PTE of PM/PM10 after Control (tons/yr) = Grain Loading (gr/dscf) x Max. Air Flow Rate (scfm) x 60 mins/hr x 1/7000 lb/gr x 8760 hr/yr x 1 ton/2000 lbs

PTE of PM/PM10 before Control (tons/yr) = PTE of PM/PM10 after Control (tons/yr) / (100-Control Efficiency)

3. Potential to Emit PM/PM10 - Fugitive Emissions:

Unit ID	Unit Description	Limit (tons/yr)	Emission Factor	Emission Factor	PTE of PM	PTE of PM10	Baghouse ID	Efficiency	(tons/yr)	(tons/yr)
EU101	Grain Receiving (FS100)	1,680,000	0.035	0.0078	29.4	6.55	BH1	90%	2.94	0.66
EU108	Grain Loadout (FS101)	1,680,000	0.086	0.0290	72.2	24.36	BH1	90%	7.22	2.44
Totals, Grain Receiving and Loadout					101.6	30.91			10.16	3.09
EU102-EU104	Grain Handling	1,680,000	0.061	0.0340	51.2	28.6	BH1	100%	0.00	0.00
EU105, EU106	Grain Storage	1,680,000	0.025	0.0063	21.0	5.29	BH1	100%	0.00	0.00
EU107	Grain Mechanical Screener	1,680,000	0.061	0.0340	51.2	28.6	BH1	100%	0.00	0.00
FS104	Grain Storage Tanks-Grain	700,000	0.025	0.0063	8.75	2.21	None	0%	8.75	2.21
FS103	Storage Tank Conveyors -Grain	700,000	0.061	0.0340	21.35	11.90	None	0%	21.35	11.90
C5	Tank Reclaim Conveyor (Grain)	1,680,000	0.061	0.0340	51.24	28.56	BH2	100%	0.00	0.00
Totals, Tanks and Conveyors					205	105.1			30.10	14.11

Note: Emission factors are from AP-42, Chapter 9.9.1 - Grain Elevators, Table 9.9.1-1 (04/03), hopper truck (SCC: 3-02-005-52). Assume all the grain is received and loadout by trucks, which is the worst case scenario.

Methodology

PTE of Fugitive PM/PM10 (tons/yr) = Annual Throughput Limit (tons/yr) x Uncontrolled Emission Factor (lbs/ton) x (1-Control Efficiency%) x 1 ton/2000 lbs

**Appendix A: Emission Calculations
PM and PM10 Emissions
From the Grain Dryer EU100**

**Company Name: Cargill AgHorizons - Linden Grain Elevator
Address: 173 West County Road 1100 North, Linden, IN 47955
Operation Permit No.: F107-21971-00009
Significant Permit Revision No.: 107-26081-00009
Reviewer: Brian Williams**

1. Unlimited PTE

Unit Description	Maximum Throughput Rate (tons/hr)	Uncontrolled PM Emission Factor* (lbs/ton)	Uncontrolled PTE of PM (lbs/hr)	Uncontrolled PTE of PM (tons/yr)	Uncontrolled PM10 Emission Factor* (lbs/ton)	Uncontrolled PTE of PM10 (lbs/hr)	Uncontrolled PTE of PM10 (tons/yr)
Grain Dryer	87	0.220	19.14	83.8	0.0550	4.79	21.0

* Emission factors are from AP-42, Chapter 9.9.1 - Grain Elevators, Table 9.9.1-1 (04/03), SCC:3-02-005-27

Methodology

PTE of PM/PM10 before Control (lbs/hr) = Max. Throughput Rate (tons/hr) x Uncontrolled Emission Factor (lbs/ton)

PTE of PM/PM10 before Control (tons/yr) = Max. Throughput Rate (tons/hr) x Uncontrolled Emission Factor (lbs/ton) x 8760 hr/yr x 1 ton/2000 lbs

2. Limited PTE

Annual Throughput Limit: 420,000 tons/yr of grain

3. Potential to Emit PM/PM10 - Fugitive Emissions:

Unit Description	Throughput (tons/yr)	Uncontrolled PM Emission Factor* (lbs/ton)	Uncontrolled PM10 Emission Factor* (lbs/ton)	Control Efficiency (%)	Limited PTE of PM (tons/yr)	Limited PTE of PM10 (tons/yr)
Grain Dryer	420,000	0.220	0.0550	0%	46.20	11.55
Total	420,000				46.20	11.55

* Emission factors are from AP-42, Chapter 9.9.1 - Grain Elevators, Table 9.9.1-1 (04/03).

Methodology

PTE of Fugitive PM/PM10 (tons/yr) = Annual Throughput Limit (tons/yr) x Uncontrolled Emission Factor (lbs/ton) x (1-Control Efficiency%) x 1 ton/2000 lbs

**Appendix A: Emission Calculations
Potential PM and PM10 Emissions
From the Grain Storage Pile EU111**

**Company Name: Cargill AgHorizons - Linden Grain Elevator
Address: 173 West County Road 1100 North, Linden, IN 47955
Operation Permit No.: F107-21971-00009
Significant Permit Revision No.: 107-26081-00009
Reviewer: Brian Williams**

1. Emission Factors:

According to AP42, Chapter 13.2.4 - Aggregate Handling and Storage Piles (AP-42, 01/95), the PM/PM10 emission factors for aggregate handling process can be estimated from the following equation:

$$E_f = \frac{k \times 0.0032 \times (U/5)^{1.3}}{(M/2)^{1.4}}$$

where:

E_f = Emission Factor (lbs/ton)

k = Particle size multiplier =

k = Particle size multiplier =

U = Mean wind speed (mph) =

M = Material Moisture content (%) =

0.74	for PM
0.35	for PM10
10	mph (provided by the source)
5	% (provided by the source)

3. Potential to Emit therefore,

PM Emission Factor = 0.0016 lbs/ton of grain
PM10 Emission Factor = 0.0008 lbs/ton of grain

2. Potential to Emit PM/PM10 before Control:

*Max. Throughput Rate: 1,680,000 tons/yr

Methodology

PTE of PM (tons/yr) = 67,200 ton/yr x 0.0016 lbs/ton x 1 tons/2000 lbs = **1.36 tons/yr**

PTE of PM10 (tons/yr) = 67,200 ton/yr x 0.0008 lbs/ton x 1 tons/2000 lbs = **0.64 tons/yr**

*Assumes all grain received is stored at the grain piles as a worst case scenario; the majority of grain received will be stored within permanent storage silos and tanks.

**Appendix A: Emissions Calculations
Fugitive Particulate Matter from Paved Roads**

**Company Name: Cargill AgHorizons - Linden Grain Elevator
Address: 173 West County Road 1100 North, Linden, IN 47955
Operation Permit No.: F107-21971-00009
Significant Permit Revision No.: 107-26081-00009
Reviewer: Brian Williams**

Paved Roads (see AP-42, Chapter 13.2.1 Paved Roads for more information)

Upon Startup

Vehicle Type	Ave Weight of Vehicles (tons)	Permitted Throughput Limits (tons)	Number of Trips Required (trips/yr)	Round Trip Distance (mile/trip)	Vehicle Mile Traveled (VMT) (miles/yr)	PTE of PM before Control (tons/yr)	PTE of PM10 before Control (tons/yr)	PTE of PM after Control (tons/yr)	PTE of PM10 after Control (tons/yr)
Grain receiving	25	1,680,000	67,200	0.79	53,088	21.96	4.28	10.98	2.14
Grain shipping	25	1,680,000	67,200	0.79	53,088	21.96	4.28	10.98	2.14
Total						43.92	8.55	21.96	4.28

VMT= 29,232 (miles/yr)

Calculations:

$$E = [(k(sL/2)^{0.65}) * ((W/3)^{1.5}) - C] * (1-P/4N)$$

- E (PM) = 0.83 Emission factor (lbs/vehicle miles traveled(VMT))
- E (PM-10) = 0.16 Emission factor (lbs/vehicle miles traveled(VMT))
- 3. Potential to Emit P_t
 - k (PM) = 0.082 particle size multiplier for PM (lb/VMT)
 - k (PM-10) = 0.016 particle size multiplier for PM-10 (lb/VMT)
 - sL (non-Winter) = 0.6 road surface silt content (g/m²) -- AP-42, Table 13.2.1-3
 - sL (Winter) = 0.6 road surface silt content (g/m²) -- AP-42, Table 13.2.1-3
 - C = 0.00047 Exhaust emission factor (lb/VMT)
 - W = 25 weighted average vehicle weight (tons)
 - P = 120 number of days in a year with at least 0.254 mm (0.01 in) of precipitation
 - N = 365 number of days in the averaging period

Methodology

Number of Trips Required (trips/yr) = Permitted Throughput Limits (tons) / Ave Weight of Vehicles (tons)
 Vehicle Mile Traveled (VMT) (miles/yr) = Number of Trips Required (trips/yr) x Round Trip Distance (mile/trip)
 PTE of PM/PM10 before Control (tons/yr) = VMT (miles/yr) x PM/PM10 Emission Factors (Average Annual) x 1 ton/2000 lbs
 PTE of PM/PM10 after Control (tons/yr) = VMT (miles/yr) x PM/PM10 Emission Factors (Average Annual) x 1 ton/2000 lbs x (100-Control Efficiency)

Potential to Emit (PTE) of PM/PM10 after Control from Paved Roads:

The source will use periodic sweeping to control the fugitive dust emissions.
 The control efficiency from sweeping is assumed to be 50%.

**Appendix A: Emission Calculations
 Natural Gas Combustion Only
 MM BTU/HR <100
 Insignificant Combustion**

**Company Name: Cargill AgHorizons - Linden Grain Elevator
 Address: 173 West County Road 1100 North, Linden, IN 47955
 Operation Permit No.: F107-21971-00009
 Significant Permit Revision No.: 107-26081-00009
 Reviewer: Brian Williams**

Heat Input Capacity (MMBtu/hr)	Limited Throughput (MMscf/yr)
32.8	80.0

Emission Factor (lb/MMSCF)	PM* 1.90	PM10* 7.60	SO2 0.60	NOx** 100	VOC 5.50	CO 84.0	HAP 1.89
Potential to Emit (tons/yr)	0.08	0.30	0.02	4.00	0.22	3.36	0.08

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

3. Potential to Emit PM/PM10 - Fugitive Emissions:

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 (July 1998).

All emission factors are based on normal firing.

1 MMscf = 1x10⁶scf

Methodology

Potential Throughput (MMscf/yr) = Heat Input Capacity (MMBtu/hr) x 8760 hrs/yr x 1 MMscf/1020 MMBtu

Potential to Emit (tons/yr) = Potential Throughput (MMscf/yr) x Emission Factor (lb/MMscf) x 1 ton/2000 lbs