



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: August 30, 2012

RE: Consolidated Grain and Barge Company / 019-31938-00001

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

Notice of Decision – Approval

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 326 IAC 2, this approval was effective immediately upon submittal of the application.

If you wish to challenge this decision, IC 4-21.5-3-7 requires 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 from 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-AM.dot12/3/07



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Mr. Chuck Long
Consolidated Grain and Barge Company
5130 Port Road
Jeffersonville, IN 47130

August 30, 2012

Re: 019-31938-00001
Sixth Administrative Amendment to
F019-21478-00001

Dear Mr. Chuck Long:

Consolidated Grain and Barge Company was issued a Federally Enforceable State Operating Permit (FESOP) Renewal No. F019-21478-00001 on March 21, 2006, for a stationary grain elevator and bulk handling plant located at 5130 Port Road, Jeffersonville, IN. On May 24, 2012, the Office of Air Quality (OAQ) received an application from the source relating to construction and operation of one (1) grain unloading operation consisting of a grain receiving truck dump pit, elevator leg, and conveyors that are of the same type and will comply with the same applicable requirements and permit terms and conditions as the existing truck dump pits, legs, and conveyors at the grain elevator. The addition of these units to the permit is considered an administrative amendment pursuant to 326 IAC 2-8-10(a)(10). The new operation will not change the total facility storage capacity or maximum annual throughput, and will not require any adjustment to the existing FESOP limitations. The facility proposes to install the following equipment:

- (l) One (1) grain unloading operation, approved for construction in 2012, consisting of the following:
 - (1) One (1) truck pit, identified as dump pit 3, with a maximum throughput rate of 725 tons/hr, equipped with a two sided dump pit shed with no doors on entrance and exit.
 - (2) One (1) grain receiving conveyor, identified as M-10, with a maximum capacity of 725 tons/hr.
 - (3) One (1) enclosed elevator leg, identified as M-11, with a maximum capacity of 725 tons/hr.
 - (4) Two (2) enclosed belt conveyors, identified as M-12 and M-14, each with a maximum capacity of 725 tons/hr.

The entire source will continue to limit PM emissions to less than 250 tons per 12 consecutive month period; and PM10 and PM2.5 emissions to less than 100 tons per 12 consecutive month period, each, rendering the requirements of 326 IAC 2-7 and 326 IAC 2-2 not applicable (see attached updated calculations). The addition of these units will not cause the source's potential to emit to be greater than the threshold levels specified in 326 IAC 2-2 or 326 IAC 2-3.

2. The source also requested that the permit be revised to clarify that the throughput limitations include grain, grain by-products, and gluten. The source indicated that previous quarterly reports submitted to IDEM OAQ included the total throughput of grain, grain by-products, and gluten. The addition of these units to the permit is considered an administrative amendment pursuant to 326 IAC 2-8-10(a)(5). This change to the permit will not change the total facility storage capacity or maximum annual throughput, and will not require any adjustment to the existing FESOP limitations.

Pursuant to the provisions of 326 IAC 2-8-10, the permit is hereby administratively amended as follows with the deleted language as ~~strikeouts~~ and new language **bolded**:

1. Sections A.2 , D.1 and D.2 have been updated as follows:

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

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

(j) One (1) bulk product handling operation, constructed after 1984, and consisting of the following:

(12) Two (2) hoppers for unloading barges and loading of trucks and railcars, each with a maximum capacity of 400 tons/hr.

Note: The Permittee has specified that neither water nor oil shall be applied to grain as a dust control measure. The Permittee has specified that an equivalent alternate measure, which may include, but is not limited to tarping, minimizing grain drop distance, and using best management practices to reduce emissions while filling and reclaiming, will be used to control dust from grain storage piles and conveyors on an as needed basis.

(l) One (1) grain unloading operation, approved for construction in 2012, consisting of the following:

(1) One (1) truck pit, identified as dump pit 3, with a maximum throughput rate of 725 tons/hr, equipped with a two sided dump pit shed with no doors on entrance and exit.

(2) One (1) grain receiving conveyor, identified as M-10, with a maximum capacity of 725 tons/hr.

(3) One (1) enclosed elevator leg, identified as M-11, with a maximum capacity of 725 tons/hr.

(4) Two (2) enclosed belt conveyors, identified as M-12 and M-14, each with a maximum capacity of 725 tons/hr.

SECTION D.1 EMISSIONS UNIT OPERATION CONDITIONS

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

...

(I) **One (1) grain unloading operation, approved for construction in 2012, consisting of the following:**

(1) **One (1) truck pit, identified as dump pit 3, with a maximum throughput rate of 725 tons/hr, equipped with a two sided dump pit shed with no doors on entrance and exit.**

(2) **One (1) grain receiving conveyor, identified as M-10, with a maximum capacity of 725 tons/hr.**

(3) **One (1) enclosed elevator leg, identified as M-11, with a maximum capacity of 725 tons/hr.**

(4) **Two (2) enclosed belt conveyors, identified as M-12 and M-14, each with a maximum capacity of 725 tons/hr.**

...

D.1.1 PM, PM10, and PM2.5 Limits [326 IAC 2-8-4] [326 IAC 2-2] [326 IAC 2-1.1-5]

- (b) The throughput rate of the following operations shall not exceed the throughput limit listed in the table below per twelve (12) consecutive month period with compliance determined at the end of each month:

Process Description	Annual Throughput Limit (tons/yr)
Grain Dryer*	116,000
Barge Loadout*	1,160,000
Truck Loadout*	145,000
Rail Loadout*	290,000
Pneumatic Conveying System	100,000

*Note: The annual throughput limits include the total throughput of grain, grain by-products, and gluten that are processed by each process specified in the table.

D.1.8 Record Keeping Requirements

- (a) To document the compliance status with Condition D.1.1(b), the Permittee shall maintain monthly records of the following:
- (1) The amount of grain, **grain by-products, and gluten** processed in the grain dryer.
- (2) The amount of grain, **grain by-products, and gluten** shipped by barges.
- (3) The amount of grain, **grain by-products, and gluten** shipped by trucks.
- (4) The amount of grain, **grain by-products, and gluten** shipped by railcars.

SECTION D.2 FACILITY OPERATION CONDITIONS

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

...

(j) One (1) bulk product handling operation, constructed after 1984, and consisting of the following:

...

(12) Two (2) hoppers for unloading barges and loading of trucks and railcars, each with a maximum capacity of 400 tons/hr.

Note: The Permittee has specified that neither water nor oil shall be applied to grain as a dust control measure. The Permittee has specified that an equivalent alternate measure, which may include, but is not limited to tarping, minimizing grain drop distance, and using best management practices to reduce emissions while filling and reclaiming, will be used to control dust from grain storage piles and conveyors on an as needed basis.

Insignificant Activities

(a) Paved and unpaved roads and parking lots with public access. [326 IAC 6-4][326 IAC 6-5].

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

...

FESOP QUARTERLY REPORT FORM:

Source Name: Consolidated Grain and Barge Co.
Source Address: 5130 Port Road, Jeffersonville, Indiana 47130
FESOP No.: F019-21478-00001
Facility: Grain Dryer
Parameter: Total grain, **grain by-products, and gluten** processed
Limit: Less than 116,000 tons per twelve (12) consecutive month period with compliance determined at the end of each month.

...

FESOP QUARTERLY REPORT FORM:

Source Name: Consolidated Grain and Barge Co.
Source Address: 5130 Port Road, Jeffersonville, Indiana 47130
FESOP No.: F019-21478-00001
Facility: Barge Loadout Operation for Grain
Parameter: The amount of grain, **grain by-products, and gluten** loadout
Limit: Less than 1,160,000 tons per twelve (12) consecutive month period with compliance determined at the end of each month.

...

FESOP QUARTERLY REPORT FORM:

Source Name: Consolidated Grain and Barge Co.
Source Address: 5130 Port Road, Jeffersonville, Indiana 47130
FESOP No.: F019-21478-00001
Facility: Truck Loadout Operation for Grain
Parameter: The amount of grain, **grain by-products, and gluten** loadout
Limit: Less than 145,000 tons per twelve (12) consecutive month period with compliance determined at the end of each month.

....
FESOP QUARTERLY REPORT FORM:

Source Name: Consolidated Grain and Barge Co.
Source Address: 5130 Port Road, Jeffersonville, Indiana 47130
FESOP No.: F019-21478-00001
Facility: Rail Loadout Operation for Grain
Parameter: The amount of grain, **grain by-products, and gluten** loadout
Limit: Less than 290,000 tons per twelve (12) consecutive month period with compliance determined at the end of each month.
....

All other conditions of the permit shall remain unchanged and in effect. Attached please find the entire revised permit.

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

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 Charles Sullivan, of my staff, at 317-232-8422 or 1-800-451-6027, and ask for extension 2-8422.

Sincerely,



Nathan C. Bell, Section Chief
Permits Branch
Office of Air Quality

Attachments: Updated permit and calculations (Appendix A)

NCB/cs

cc: File - Clark County
Clark County Health Department
U.S. EPA, Region V
Compliance and Enforcement Branch
Billing, Licensing and Training Section



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Federally Enforceable State Operating Permit Renewal OFFICE OF AIR QUALITY

Consolidated Grain and Barge Company
5130 Port Road
Jeffersonville, Indiana 47130

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

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

This permit is issued in accordance with 326 IAC 2 and 40 CFR Part 70 Appendix A and contains the conditions and provisions specified in 326 IAC 2-8 as required by 42 U.S.C. 7401, et. seq. (Clean Air Act as amended by the 1990 Clean Air Act Amendments), 40 CFR Part 70.6, IC 13-15 and IC 13-17.

Indiana statutes from IC 13 and rules from 326 IAC, quoted in conditions in this permit, are those applicable at the time the permit was issued. The issuance or possession of this permit shall not alone constitute a defense against an alleged violation of any law, regulation or standard, except for the requirement to obtain a FESOP under 326 IAC 2-8.

Operation Permit No. F019-21478-00001	
Original Signed by: Paul Dubenetzky, Assistant Commissioner Office of Air Quality	Issuance Date: March 21, 2006 Expiration Date: March 21, 2016

- First Administrative Amendment No. 019-25912-00001, issued on February 25, 2008
- Second Administrative Amendment No. 019-26371-00001, issued on May 2, 2008
- Third Administrative Amendment No. 019-28618-00001, issued on November 9, 2009
- First Significant Permit Revision No. 019-29352-00001, issued on October 6, 2010
- Fourth Administrative Amendment No. 019-30399-00001, issued on May 10, 2011
- Fifth Administrative Amendment No. 019-31935-00001, issued on August 23, 2012

Sixth Administrative Amendment No. 019-31938-00001	
Issued by:  Nathan C. Bell, Section Chief Permits Branch Office of Air Quality	Issuance Date: August 30, 2012 Expiration Date: March 21, 2016

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SECTION A SOURCE SUMMARY

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

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

The Permittee owns and operates a stationary grain elevator and bulk handling plant.

Source Address:	5130 Port Road, Jeffersonville, Indiana 47130
General Source Phone Number:	(812) 283-9500
SIC Code:	5153, 2873
County Location:	Clark
Source Location Status:	Nonattainment for PM2.5 standard Attainment for all other criteria pollutants
Source Status:	Federally Enforceable State Operating Permit Program Minor Source, under PSD and Emission Offset Rules Minor Source, Section 112 of the Clean Air Act Not 1 of 28 Source Categories

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

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

- (a) One (1) grain unloading operation, constructed in 1984, controlled by baghouse BH1, and consisting of the following:
 - (1) Two (2) truck pits, with a total maximum throughput rate of 1,120 tons/hr, equipped with quick-closing bi-fold doors.
 - (2) Two (2) rail pits, identified as R-1 and R-2, with a maximum throughput rate of 840 tons/yr and 224 tons/hr, respectively.

- (b) One (1) grain handling operation, constructed after 1984, with a maximum throughput rate of 1,120 tons/hr, controlled by baghouse BH1, and consisting of the following:
 - (1) One (1) rail belt conveyor, identified as M-1, with a maximum capacity of 224 tons/hr.
 - (2) Two (2) enclosed reclaim drag conveyors, identified as M-2 and M-3, each with a maximum capacity of 560 tons/hr.
 - (3) Two (2) grain legs, identified as M-4 and M-5, approved for construction in 2011, each with a maximum capacity of 725 tons/hr.
 - (4) Two (2) reclaim drag conveyors, identified as M-7 and M-8, constructed in 2006, each with a maximum capacity of 700 tons/hr.
 - (5) One (1) barge shipping belt conveyor, identified as M-9, with a maximum capacity of 1,400 tons/hr.
 - (6) One (1) enclosed conveyor, identified as M-13, with a maximum capacity of 290 tons/hr.

- (7) One (1) enclosed conveyor, identified as M-15, with a maximum capacity of 290 tons/hr.
 - (8) One (1) enclosed conveyor, identified as M-16, with a maximum capacity of 290 tons/hr.
 - (9) One (1) enclosed conveyor, identified as M-17, with a maximum capacity of 290 tons/hr.
 - (10) One (1) bin 14 reclaim belt conveyor, identified as 14-R, with a maximum capacity of 560 tons/hr.
 - (11) One (1) bin 14 transfer drag conveyor, identified as 14-T, with a maximum capacity of 560 tons/hr.
 - (12) One (1) bin 14 fill belt conveyor, identified as 14-F, with a maximum capacity of 840 tons/hr.
 - (13) Two (2) gluten drag conveyors, identified as G-1 and G-2, each with a maximum capacity of 210 tons/hr.
 - (14) One (1) enclosed belt fill conveyor, identified as #15F, approved for construction in 2008, with a maximum capacity of 30,000 bushels per hour (840 tons per hour), controlled by baghouse BH1.
 - (15) One (1) enclosed drag reclaim conveyor, identified as #15R, approved for construction in 2008, with a maximum capacity of 30,000 bushels per hour (840 tons per hour), controlled by baghouse BH1.
 - (16) One (1) enclosed belt fill conveyor, identified as 16F, approved for construction in 2011, with a maximum capacity of 25,000 bushels (725 tons) per hour.
 - (17) One (1) enclosed drag reclaim conveyor, identified as 16R, approved for construction in 2011, with a maximum capacity of 25,000 bushels (725 tons) per hour.
- (c) One (1) natural gas-fired tower dryer, approved for construction in 2012, with a maximum capacity of 203 tons/hr and a maximum heat input rate of 72.9 MMBtu/hr.
- (d) Fifteen (15) grain storage bins (storage bins #1 through #14 were constructed after 1984 and storage bin #15 is approved for construction in 2008), with a total maximum throughput rate of 560 tons/hr, consisting of the following:
- (1) Eight (8) storage bins, identified as #1, #2, #4, #5, #9, #10, #12, and #13, each with a maximum capacity of 1,900 tons.
 - (2) One (1) storage bin, identified as #3, with a maximum capacity of 475 tons.
 - (3) Two (2) storage bins, identified as #6 and #8, each with a maximum capacity of 350 tons.
 - (4) One (1) storage bin, identified as #7, with a maximum capacity of 850 tons.
 - (5) One (1) storage bin, identified as #11, with a maximum capacity of 474 tons.
 - (6) One (1) storage bin, identified as #14, with a maximum capacity of 18,200 tons.

- (7) One (1) steel storage bin, identified as #15, approved for construction in 2008, with a maximum storage capacity of 540,000 bushels (15,120 tons).
- (8) Fourteen (14) enclosed spouts, each with a maximum capacity of 420 tons/hr.
- (9) One (1) steel storage bin, identified as Bin 16, approved for construction in 2011, with a maximum capacity of 650,000 bushels (18,200 tons).
- (e) Four (4) gluten storage bins, identified as #1a through #4a, constructed after 1984, each with a maximum capacity of 100 tons, with a total maximum throughput rate of 210 tons/hr.
- (f) One (1) gluten truck loadout operation, constructed after 1984, with a maximum throughput rate of 384 tons per hour.
- (g) One (1) grain loadout operation, constructed in 1984, and consisting of the following:
 - (1) One (1) barge loadout operation for grain, with a maximum capacity of 1400 tons/hr.
 - (2) Five (5) truck loadout operations for grain, each with a maximum capacity of 384 tons/hr.
 - (3) One (1) rail loadout operation, with a maximum capacity of 560 tons/hr.
- (h) One (1) truck loadout operation for gluten, constructed in 1984, with a maximum capacity of 384 tons/hr.
- (i) One (1) rail unloading pit for bulk products, constructed in 1984, with a maximum capacity of 300 tons/hr. This unit is choke fed to reduce dust.
- (j) One (1) bulk product handling operation, constructed after 1984, and consisting of the following:
 - (1) One (1) bulk receiving belt conveyor, identified as F-1, with a maximum capacity of 900 tons/hr.
 - (2) One (1) reversing belt conveyor, identified as F-2, with a maximum capacity of 400 tons/hr.
 - (3) One (1) radial stacker belt conveyor, identified as F-3, with a maximum capacity of 400 tons/hr.
 - (4) One (1) cross conveyor, identified as F-4, constructed in 2005, with a maximum capacity of 400 tons/hr.
 - (5) One (1) fertilizer building fill conveyor belt, identified as F-5, constructed in 2005, with a maximum capacity of 400 tons/hr.
 - (6) One (1) reclaim radial belt conveyor, identified as F-6, with a maximum capacity of 300 tons/hr.
 - (7) One (1) salt stacking belt conveyor, identified as F-7, with a maximum capacity of 200 tons/hr.
 - (8) One (1) fertilizer building reclaim hopper/belt, identified as F-8, constructed in 2005, with a maximum capacity of 400 tons/hr.

- (9) One (1) rail receiving drag conveyor, identified as F-9, with a maximum capacity of 300 tons/hr.
- (10) One (1) rail receiving leg, identified as F-10, with a maximum capacity of 300 tons/hr.
- (11) One (1) dome reclaim hopper/belt conveyor, identified as F-11, with a maximum capacity of 300 tons/hr.
- (12) Two (2) hoppers for unloading barges and loading of trucks and railcars, each with a maximum capacity of 400 tons/hr.

Note: The Permittee has specified that neither water nor oil shall be applied to grain as a dust control measure. The Permittee has specified that an equivalent alternate measure, which may include, but is not limited to tarping, minimizing grain drop distance, and using best management practices to reduce emissions while filling and reclaiming, will be used to control dust from grain storage piles and conveyors on an as needed basis.

- (k) One (1) pneumatic conveying system, approved for construction in 2010, using barge covers for particulate control, consisting of:
 - (1) One (1) portable pneumatic pipe system, identified as CM-1, extending from the bulkhead to the barge, with a maximum capacity of 150 tons per hour.
 - (2) One (1) pneumatic blower system, identified as CB-1, unloading rail cards to barges at a maximum capacity of 25 tons per hour.
- (l) One (1) grain unloading operation, approved for construction in 2012, consisting of the following:
 - (1) One (1) truck pit, identified as dump pit 3, with a maximum throughput rate of 725 tons/hr, equipped with a two sided dump pit shed with no doors on entrance and exit.
 - (2) One (1) grain receiving conveyor, identified as M-10, with a maximum capacity of 725 tons/hr.
 - (3) One (1) enclosed elevator leg, identified as M-11, with a maximum capacity of 725 tons/hr.
 - (4) Two (2) enclosed belt conveyors, identified as M-12 and M-14, each with a maximum capacity of 725 tons/hr.

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

This stationary source also includes the following insignificant activities:

- (a) Paved and unpaved roads and parking lots with public access. [326 IAC 6-4] [326 IAC 6-5].
- (b) 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) ton per year of any combination of HAPs:

- (1) Two (2) storage domes for fertilizer and bulk products, with a total maximum capacity of 7,500 tons.
- (2) One (1) warehouse for storage of bulk products, with a maximum capacity of 14,000 tons.
- (3) One (1) warehouse for storage of bulk products, constructed in 2005, with a maximum capacity of 12,000 tons.

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

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

SECTION B GENERAL CONDITIONS

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

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

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

- (a) This permit, F019-21478-00001, is issued for a fixed term of ten (10) 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] [IC 13-17-12]

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

B.5 Severability [326 IAC 2-8-4(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. Upon request, the Permittee shall also furnish to IDEM, OAQ copies of records required to be kept by this permit.
- (b) For information furnished by the Permittee to IDEM, OAQ, the Permittee may include a claim of confidentiality in accordance with 326 IAC 17.1. When furnishing copies of requested records directly to U. S. EPA, the Permittee may assert a claim of confidentiality in accordance with 40 CFR 2, Subpart B.

B.8 Certification [326 IAC 2-8-3(d)][326 IAC 2-8-4(3)(C)(i)][326 IAC 2-8-5(1)]

- (a) A certification required by this permit meets the requirements of 326 IAC 2-8-5(a)(1) if:
- (1) it contains a certification by an "authorized individual", as defined by 326 IAC 2-1.1-1(1), and
 - (2) the certification states that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.
- (b) The Permittee may use the attached Certification Form, or its equivalent with each submittal requiring certification. One (1) certification may cover multiple forms in one (1) submittal.
- (c) An "authorized individual" is defined at 326 IAC 2-1.1-1(1).

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

- (a) The Permittee shall annually submit a compliance certification report which addresses the status of the source's compliance with the terms and conditions contained in this permit, including emission limitations, standards, or work practices. All certifications shall cover the time period from January 1 to December 31 of the previous year, and shall be submitted no later than April 15 of each year to:

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

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

The submittal by the Permittee does require a certification that meets the requirements of 326 IAC 2-8-5(a)(1) by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

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

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

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

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

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

The Permittee shall implement the PMPs.

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

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

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

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

The PMP extension notification does not require a certification that meets the requirements of 326 IAC 2-8-5(a)(1) by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

The Permittee shall implement the PMPs.

(c) A copy of the PMPs shall be submitted to IDEM, OAQ upon request and within a reasonable time, and shall be subject to review and approval by IDEM, OAQ. IDEM, OAQ may require the Permittee to revise its PMPs whenever lack of proper maintenance causes or is the primary contributor to an exceedance of any limitation on emissions. The PMPs and their submittal do not require a certification that meets the requirements of 326 IAC 2-8-5(a)(1) by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

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

B.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, Southwest Regional Office, or Southeast 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;

Telephone Number: 1-800-451-6027 (ask for Office of Air Quality, Compliance and Enforcement Branch), or
Telephone Number: 317-233-0178 (ask for Office of Air Quality, Compliance and Enforcement Branch)
Facsimile Number: 317-233-6865
Southeast Regional Office phone: (812) 358-2027; fax: (812) 358-2058.
Southwest Regional Office phone: (812) 380-2305; fax: (812) 380-2304

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

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

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

The notice fulfills the requirement of 326 IAC 2-8-4(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 a certification that meets the requirements of 326 IAC 2-8-5(a)(1) 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.

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

- (a) All terms and conditions of permits established prior to F019-21478-00001 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 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 a certification that meets the requirements of 326 IAC 2-8-5(a)(1) 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.16 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 a certification that meets the requirements of 326 IAC 2-8-5(a)(1) 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
Permit Administration and Support Section, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

- (b) A timely renewal application is one that is:
 - (1) Submitted at least nine (9) months prior to the date of the expiration of this permit; and
 - (2) If the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ on or before the date it is due.
- (c) If the Permittee submits a timely and complete application for renewal of this permit, the source's failure to have a permit is not a violation of 326 IAC 2-8 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, pursuant to 326 IAC 2-8-3(g), in writing by IDEM, OAQ any additional information identified as being needed to process the application.

B.17 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
Permit Administration and Support Section, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

Any such application does require a certification that meets the requirements of 326 IAC 2-8-5(a)(1) 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.18 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) and (c) without a prior permit revision, if each of the following conditions is met:
 - (1) The changes are not modifications under any provision of Title I of the Clean Air Act;
 - (2) Any 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
Permit Administration and Support Section, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

and

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

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

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

- (b) Emission Trades [326 IAC 2-8-15(b)]
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(b).
- (c) Alternative Operating Scenarios [326 IAC 2-8-15(c)]
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.19 Source Modification Requirement [326 IAC 2-8-11.1]

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

B.20 Inspection and Entry [326 IAC 2-8-5(a)(2)][IC 13-14-2-2][IC 13-17-3-2][IC 13-30-3-1]

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

- (a) Enter upon the Permittee's premises where a FESOP source is located, or emissions related activity is conducted, or where records must be kept under the conditions of this permit;
- (b) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
- (c) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, inspect, at reasonable times, any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit;

- (d) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with this permit or applicable requirements; and
- (e) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, utilize any photographic, recording, testing, monitoring, or other equipment for the purpose of assuring compliance with this permit or applicable requirements.

B.21 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
Permit Administration and Support Section, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

Any such application does require a certification that meets the requirements of 326 IAC 2-8-5(a)(1) 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.22 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 no later than 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.23 Advanced Source Modification Approval [326 IAC 2-8-4(11)] [326 IAC 2-1.1-9]

- (a) The requirements to obtain a permit modification 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.2 and A.3.
- (b) Pursuant to 326 IAC 2-1.1-9 any permit authorizing construction may be revoked if construction of the emission unit has not commenced within eighteen (18) months from the date of issuance of the permit, or if during the construction, work is suspended for a continuous period of one (1) year or more.

B.24 Credible Evidence [326 IAC 2-8-4(3)][326 IAC 2-8-5][62 FR 8314] [326 IAC 1-1-6]

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

SECTION C

SOURCE OPERATION CONDITIONS

Entire Source

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

C.1 Overall Source Limit [326 IAC 2-8]

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

- (a) Pursuant to 326 IAC 2-8:
 - (1) The potential to emit any regulated pollutant, except particulate matter (PM) and greenhouse gases (GHGs), from the entire source shall be limited to less than one hundred (100) tons per twelve (12) consecutive month period.
 - (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.
 - (4) The potential to emit greenhouse gases (GHGs) from the entire source shall be limited to less than one hundred thousand (100,000) tons of CO₂ equivalent emissions (CO₂e) per twelve (12) consecutive month period.
- (b) Pursuant to 326 IAC 2-2 (PSD), potential to emit particulate matter (PM) from the entire source shall be limited to less than two hundred fifty (250) tons per twelve (12) consecutive month period.
- (c) This condition shall include all emission points at this source including those that are insignificant as defined in 326 IAC 2-7-1(21). The source shall be allowed to add insignificant activities not already listed in this permit, provided that the source's potential to emit does not exceed the above specified limits.
- (d) Section D of this permit contains independently enforceable provisions to satisfy this requirement.

C.2 Opacity [326 IAC 5-1]

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

- (a) Opacity shall not exceed an average of thirty percent (30%) in any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.
- (b) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of fifteen (15) minutes (sixty (60) readings as measured according to 40 CFR 60, Appendix A, Method 9 or fifteen (15) one (1) minute nonoverlapping integrated averages for a continuous opacity monitor) in a six (6) hour period.

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

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

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

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

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

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

C.6 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 attached plan as in Attachment A.

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

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

All required notifications shall be submitted to:

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

The notice shall include a signed certification from the owner or operator that the information provided in this notification is correct and that only Indiana licensed workers and project supervisors will be used to implement the asbestos removal project. The notifications do not require a certification that meets the requirements of 326 IAC 2-8-5(a)(1) 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 Licensed Asbestos Inspector**
The Permittee shall comply with 326 IAC 14-10-1(a) that requires the owner or operator, prior to a renovation/demolition, to use an Indiana Licensed Asbestos Inspector to thoroughly inspect the affected portion of the facility for the presence of asbestos.

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

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

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

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

no later than thirty-five (35) days prior to the intended test date. The protocol submitted by the Permittee does not require a certification that meets the requirements of 326 IAC 2-8-5(a)(1) 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 a certification that meets the requirements of 326 IAC 2-8-5(a)(1) 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.9 Compliance Requirements [326 IAC 2-1.1-11]

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

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

C.10 Compliance Monitoring [326 IAC 2-8-4(3)][326 IAC 2-8-5(a)(1)]

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

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

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

The notification which shall be submitted by the Permittee does require a certification that meets the requirements of 326 IAC 2-8-5(a)(1) 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.11 Instrument Specifications [326 IAC 2-1.1-11] [326 IAC 2-8-4(3)][326 IAC 2-8-5(1)]

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

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

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

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

- (a) The Permittee shall maintain the most recently submitted written emergency reduction plans (ERPs) consistent with safe operating procedures.

- (b) Upon direct notification by IDEM, OAQ that a specific air pollution episode level is in effect, the Permittee shall immediately put into effect the actions stipulated in the approved ERP for the appropriate episode level. [326 IAC 1-5-3]

C.13 Risk Management Plan [326 IAC 2-8-4] [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.14 Response to Excursions or Exceedances [326 IAC 2-8-4] [326 IAC 2-8-5]

Upon detecting an excursion where a response step is required by the D Section or an exceedance of a limitation in this permit:

- (a) The Permittee shall take reasonable response steps to restore operation of the emissions unit (including any control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing excess emissions.
- (b) The response shall include minimizing the period of any startup, shutdown or malfunction. The response may include, but is not limited to, the following:
 - (1) initial inspection and evaluation;
 - (2) recording that operations returned or are returning to normal without operator action (such as through response by a computerized distribution control system); or
 - (3) any necessary follow-up actions to return operation to normal or usual manner of operation.
- (c) A determination of whether the Permittee has used acceptable procedures in response to an excursion or exceedance will be based on information available, which may include, but is not limited to, the following:
 - (1) monitoring results;
 - (2) review of operation and maintenance procedures and records; and/or
 - (3) inspection of the control device, associated capture system, and the process.
- (d) Failure to take reasonable response steps shall be considered a deviation from the permit.
- (e) The Permittee shall record the reasonable response steps taken.

C.15 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 submit a description of its response actions to IDEM, OAQ, no later than seventy-five (75) days after the date of the test.
- (b) A retest to demonstrate compliance shall be performed no later than one hundred eighty (180) days after the date of the test. Should the Permittee demonstrate to IDEM, OAQ that retesting in one hundred eighty (180) days is not practicable, IDEM, OAQ may extend the retesting deadline

- (c) IDEM, OAQ reserves the authority to take any actions allowed under law in response to noncompliant stack tests.

The response action documents submitted pursuant to this condition do require a certification that meets the requirements of 326 IAC 2-8-5(a)(1) 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.16 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. Support information includes the following:
- (AA) All calibration and maintenance records.
 - (BB) All original strip chart recordings for continuous monitoring instrumentation.
 - (CC) Copies of all reports required by the FESOP.

Records of required monitoring information include the following:

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

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

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

C.17 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. Proper notice submittal under Section B – Emergency Provisions satisfies the reporting requirements of this paragraph. Any deviation from permit requirements, the date(s) of each deviation, the cause of the deviation, and the response steps taken must be reported except that a deviation required to be reported pursuant to an applicable requirement that exists independent of this permit, shall be reported according to the schedule stated in the applicable requirement and does not need to be included in this report. This report shall be submitted not later than thirty (30) days after the end of the reporting period. The Quarterly Deviation and Compliance Monitoring Report shall include a certification that meets the requirements of 326 IAC 2-8-5(a)(1) by an "authorized individual" as defined by 326 IAC 2-1.1-1(1). A deviation is an exceedance of a permit limitation or a failure to comply with a requirement of the permit.

- (b) The address for report submittal is:
- Indiana Department of Environmental Management
Compliance and Enforcement Branch, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251
- (c) Unless otherwise specified in this permit, any notice, report, or other submission required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ on or before the date it is due.
- (d) Reporting periods are based on calendar years, unless otherwise specified in this permit. For the purpose of this permit "calendar year" means the twelve (12) month period from January 1 to December 31 inclusive.

Stratospheric Ozone Protection

C.18 Compliance with 40 CFR 82 and 326 IAC 22-1

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

SECTION D.1 EMISSIONS UNIT OPERATION CONDITIONS

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

- (a) One (1) grain unloading operation, constructed in 1984, controlled by baghouse BH1, and consisting of the following:
 - (1) Two (2) truck pits, with a total maximum throughput rate of 1,120 tons/hr, equipped with quick-closing bi-fold doors.
 - (2) Two (2) rail pits, identified as R-1 and R-2, with a maximum throughput rate of 840 tons/yr and 224 tons/hr, respectively.
- (b) One (1) grain handling operation, constructed after 1984, with a maximum throughput rate of 1,120 tons/hr, controlled by baghouse BH1, and consisting of the following:
 - (1) One (1) rail belt conveyor, identified as M-1, with a maximum capacity of 224 tons/hr.
 - (2) Two (2) enclosed reclaim drag conveyors, identified as M-2 and M-3, each with a maximum capacity of 560 tons/hr.
 - (3) Two (2) grain legs, identified as M-4 and M-5, approved for construction in 2011, each with a maximum capacity of 725 tons/hr.
 - (4) Two (2) reclaim drag conveyors, identified as M-7 and M-8, constructed in 2006, each with a maximum capacity of 700 tons/hr.
 - (5) One (1) barge shipping belt conveyor, identified as M-9, with a maximum capacity of 1,400 tons/hr.
 - (6) One (1) enclosed conveyor, identified as M-13, with a maximum capacity of 290 tons/hr.
 - (7) One (1) enclosed conveyor, identified as M-15, with a maximum capacity of 290 tons/hr.
 - (8) One (1) enclosed conveyor, identified as M-16, with a maximum capacity of 290 tons/hr.
 - (9) One (1) enclosed conveyor, identified as M-17, with a maximum capacity of 290 tons/hr.
 - (10) One (1) bin 14 reclaim belt conveyor, identified as 14-R, with a maximum capacity of 560 tons/hr.
 - (11) One (1) bin 14 transfer drag conveyor, identified as 14-T, with a maximum capacity of 560 tons/hr.
 - (12) One (1) bin 14 fill belt conveyor, identified as 14-F, with a maximum capacity of 840 tons/hr.
 - (13) Two (2) gluten drag conveyors, identified as G-1 and G-2, each with a maximum capacity of 210 tons/hr.
 - (14) One (1) enclosed belt fill conveyor, identified as #15F, approved for construction in 2008, with a maximum capacity of 30,000 bushels per hour (840 tons per hour), controlled by baghouse BH1.
 - (15) One (1) enclosed drag reclaim conveyor, identified as #15R, approved for construction in 2008, with a maximum capacity of 30,000 bushels per hour (840 tons per hour),

controlled by baghouse BH1.

- (16) One (1) enclosed belt fill conveyor, identified as 16F, approved for construction in 2011, with a maximum capacity of 25,000 bushels (725 tons) per hour.
- (17) One (1) enclosed drag reclaim conveyor, identified as 16R, approved for construction in 2011, with a maximum capacity of 25,000 bushels (725 tons) per hour.
- (c) One (1) natural gas-fired tower dryer, approved for construction in 2012, with a maximum capacity of 203 tons/hr and a maximum heat input rate of 72.9 MMBtu/hr.
- (d) Fifteen (15) grain storage bins (storage bins #1 through #14 were constructed after 1984 and storage bin #15 is approved for construction in 2008), with a total maximum throughput rate of 560 tons/hr, consisting of the following:
 - (1) Eight (8) storage bins, identified as #1, #2, #4, #5, #9, #10, #12, and #13, each with a maximum capacity of 1,900 tons.
 - (2) One (1) storage bin, identified as #3, with a maximum capacity of 475 tons.
 - (3) Two (2) storage bins, identified as #6 and #8, each with a maximum capacity of 350 tons.
 - (4) One (1) storage bin, identified as #7, with a maximum capacity of 850 tons.
 - (5) One (1) storage bin, identified as #11, with a maximum capacity of 474 tons.
 - (6) One (1) storage bin, identified as #14, with a maximum capacity of 18,200 tons.
 - (7) One (1) steel storage bin, identified as #15, approved for construction in 2008, with a maximum storage capacity of 540,000 bushels (15,120 tons).
 - (8) Fourteen (14) enclosed spouts, each with a maximum capacity of 420 tons/hr.
 - (9) One (1) steel storage bin, identified as Bin 16, approved for construction in 2011, with a maximum capacity of 650,000 bushels (18,200 tons).
- (e) Four (4) gluten storage bins, identified as #1a through #4a, constructed after 1984, each with a maximum capacity of 100 tons, with a total maximum throughput rate of 210 tons/hr.
- (f) One (1) gluten truck loadout operation, constructed after 1984, with a maximum throughput rate of 384 tons per hour.
- (g) One (1) grain loadout operation, constructed in 1984, and consisting of the following:
 - (1) One (1) barge loadout operation for grain, with a maximum capacity of 1400 tons/hr.
 - (2) Five (5) truck loadout operations for grain, each with a maximum capacity of 384 tons/hr.
 - (3) One (1) rail loadout operation, with a maximum capacity of 560 tons/hr.
- (h) One (1) truck loadout operation for gluten, constructed in 1984, with a maximum capacity of 384 tons/hr.
- (k) One (1) pneumatic conveying system, approved for construction in 2010, using barge covers for particulate control, consisting of:

- (1) One (1) portable pneumatic pipe system, identified as CM-1, extending from the bulkhead to the barge, with a maximum capacity of 150 tons per hour.
 - (2) One (1) pneumatic blower system, identified as CB-1, unloading rail cards to barges at a maximum capacity of 25 tons per hour.
 - (I) One (1) grain unloading operation, approved for construction in 2012, consisting of the following:
 - (1) One (1) truck pit, identified as dump pit 3, with a maximum throughput rate of 725 tons/hr, equipped with a two sided dump pit shed with no doors on entrance and exit.
 - (2) One (1) grain receiving conveyor, identified as M-10, with a maximum capacity of 725 tons/hr.
 - (3) One (1) enclosed elevator leg, identified as M-11, with a maximum capacity of 725 tons/hr.
 - (4) Two (2) enclosed belt conveyors, identified as M-12 and M-14, each with a maximum capacity of 725 tons/hr.
- (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 PM, PM10, and PM2.5 Limits [326 IAC 2-8-4] [326 IAC 2-2] [326 IAC 2-1.1-5]

Pursuant to 326 IAC 2-8-4 (FESOP) and in order to render the requirements of 326 IAC 2-2 (PSD) not applicable, the Permittee shall comply with the following:

- (a) The total PM/PM10/PM2.5 emissions from the grain receiving and handling operations, which are controlled by baghouse BH1, shall not exceed the emission limitations listed in the table below:

Emission Unit	PM Limit (lbs/hr)	PM10/PM2.5 Limit (lbs/hr)
Grain Receiving and Handling Operations	3.04	1.12

- (b) The throughput rate of the following operations shall not exceed the throughput limit listed in the table below per twelve (12) consecutive month period with compliance determined at the end of each month:

Process Description	Annual Throughput Limit (tons/yr)
Grain Dryer*	116,000
Barge Loadout*	1,160,000
Truck Loadout*	145,000
Rail Loadout*	290,000
Pneumatic Conveying System	100,000

*Note: The annual throughput limits include the total throughput of grain, grain by-products, and gluten that are processed by each process specified in the table.

- (c) The following operations shall not exceed the limits listed in the table below for PM, PM10 and PM2.5 emissions:

Process Description	PM Limit (lb PM/ton of product)	PM10 limit (lb PM10/ton of product)	PM2.5 limit (lb PM2.5/ton of product)
Grain Dryer	0.220	0.0550	0.0550
Barge Loadout	0.016	0.0040	0.0040
Truck Loadout	0.086	0.0290	0.0290
Rail Loadout	0.027	0.0022	0.0022
Pneumatic Conveying System	0.72	0.46	0.46

Compliance with the above limit, combined with the potential to emit PM from other emission units at the source, shall limit the PM from the entire source to less than 250 tons/yr and render 326 IAC 2-2 (PSD) not applicable.

Compliance with the above limit, combined with the potential to emit PM10 and PM2.5 from other emission units at the source, shall limit the PM10 and PM2.5 from the entire source to less than 100 tons/yr and 250 tons/yr, each, and render 326 IAC 2-7 (Part 70 Program) and 326 IAC 2-2 (PSD) not applicable.

D.1.2 Particulate Emission Limitations [326 IAC 6.5-1-2]

-
- (a) Pursuant to 326 IAC 6.5-1-2(a) (formerly 326 IAC 6-1-2), particulate matter (PM) from each of the grain receiving and handling operations shall not exceed 0.03 grain per dry standard cubic foot (gr/dscf) of exhaust air.
 - (b) Pursuant to 326 IAC 6.5-1-2(a), particulate matter (PM) from each of the storage bins and loadout operations shall not exceed 0.03 grain per dry standard cubic foot (gr/dscf) of exhaust air.
 - (c) Pursuant to 326 IAC 6.5-1-2(a), particulate matter (PM) from the pneumatic conveying system shall not exceed 0.03 per dry standard cubic foot (gr/dscf) of exhaust air.
 - (d) Pursuant to 326 IAC 6.5-1-2(d)(2) (formerly 326 IAC 6-1-2(d)(2)) and F019-21478-00001, issued on April 12, 2001, the Permittee shall provide for housekeeping and maintenance procedures that minimize the opportunity for particulate matter to become airborne and leave the property, such as the following:
 - (1) Housekeeping practices shall be conducted as follows:
 - (A) Areas to be swept and maintained shall include, at a minimum, the following:
 - (i) General grounds, yard, and other open areas.
 - (ii) Floors, decks, hopper areas, loading areas, dust collectors, and all areas of dust or waste concentrations.
 - (iii) Grain driers with respect to accumulated particulate matter.
 - (B) Cleanings and other collected waste material shall be handled and disposed of so that the area does not generate fugitive dust.
 - (C) Dust from driveways, access roads, and other areas of travel shall be controlled.

- (D) Accidental spills and other accumulations shall be cleaned up as soon as possible but no later than at completion of the day's operation.
- (2) Equipment maintenance shall consist of procedures that eliminate or minimize emissions from equipment or a system caused by the following:
 - (A) Malfunctions.
 - (B) Breakdowns.
 - (C) Improper adjustment.
 - (D) Operating above the rated or designed capacity.
 - (E) Not following designed operating specifications.
 - (F) Lack of good preventive maintenance care.
 - (G) Lack of critical and proper spare replacement parts on hand.
 - (H) Lack of properly trained and experienced personnel.
- (3) Emissions from the affected areas, operations, equipment, and systems shall not exceed twenty percent (20%) opacity as determined under 326 IAC 5-1.

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

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

Compliance Determination Requirements

D.1.4 Particulate Control

- (a) In order to comply with Conditions D.1.1(a) and D.1.2(a), the baghouse shall be in operation and control emissions from the grain receiving and handling operations at all times that these facilities are in operation.
- (b) In the event that bag failure is observed in a multi-compartment baghouse, if operations will continue for ten (10) days or more after the failure is observed before the failed units will be repaired or replaced, the Permittee shall promptly notify the IDEM, OAQ of the expected date the failed units will be repaired or replaced. The notification shall also include the status of the applicable compliance monitoring parameters with respect to normal, and the results of any response actions taken up to the time of notification.

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

D.1.5 Visible Emissions Notations

- (a) Visible emission notations of the exhausts from the baghouse stack shall be performed daily 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 noncontinuous 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. Section C - Response to Excursions or Exceedances contains the Permittee's obligations with regard to the response steps required by this condition. Failure to take response shall be considered a deviation from this permit.

D.1.6 Parametric Monitoring

The Permittee shall record the pressure drop across the baghouse used in conjunction with the grain receiving and handling operations, at least once per day when any of the grain receiving and handling is in operation. When for any one reading, the pressure drop across the baghouse is outside the normal range, the Permittee shall take a reasonable response. The normal range for this unit is a pressure drop between 0.5 and 6.0 inches of water unless a different upper-bound or lower-bound value for this range is determined during the latest stack test. Section C - Response to Excursions or Exceedances contains the Permittee's obligation with regard to the reasonable response steps required by this condition. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps shall be considered a deviation from this permit.

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

D.1.7 Broken or Failed Bag Detection

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

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

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

D.1.8 Record Keeping Requirements

- (a) To document the compliance status with Condition D.1.1(b), the Permittee shall maintain monthly records of the following:
 - (1) The amount of grain, grain by-products, and gluten processed in the grain dryer.
 - (2) The amount of grain, grain by-products, and gluten shipped by barges.

- (3) The amount of grain, grain by-products, and gluten shipped by trucks.
- (4) The amount of grain, grain by-products, and gluten shipped by railcars.
- (5) The amount of product conveyed by the pneumatic pipe system.
- (b) To document the compliance status with Condition D.1.5, the Permittee shall maintain records of the daily visible emission notations. The Permittee shall include in its daily record when a visible emission notation is not taken and the reason for the lack of a visible emission notation (e.g., the process did not operate that day).
- (c) To document the compliance status with Condition D.1.6, the Permittee shall maintain once per day records of the pressure drop 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).
- (d) Section C - General Record Keeping Requirements, of this permit contains the Permittee's obligations with regard to the records required by this condition.

D.1.9 Reporting Requirements

A quarterly summary of the information to document the compliance status with Condition D.1.1(b) shall be submitted, using the reporting forms located at the end of this permit, or their equivalent, no later than thirty (30) days after the end of the quarter being reported. Section C - General Reporting contains the Permittee's obligation with regard to the reporting required by this condition. The report submitted by the Permittee does require a certification that meets the requirements of 326 IAC 2-8-5(a)(1) by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

SECTION D.2

FACILITY OPERATION CONDITIONS

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

- (i) One (1) rail unloading pit for bulk products, constructed in 1984, with a maximum capacity of 300 tons/hr. This unit is choke fed to reduce dust.
- (j) One (1) bulk product handling operation, constructed after 1984, and consisting of the following:
 - (1) One (1) bulk receiving belt conveyor, identified as F-1, with a maximum capacity of 900 tons/hr.
 - (2) One (1) reversing belt conveyor, identified as F-2, with a maximum capacity of 400 tons/hr.
 - (3) One (1) radial stacker belt conveyor, identified as F-3, with a maximum capacity of 400 tons/hr.
 - (4) One (1) cross conveyor, identified as F-4, constructed in 2005, with a maximum capacity of 400 tons/hr.
 - (5) One (1) fertilizer building fill conveyor belt, identified as F-5, constructed in 2005, with a maximum capacity of 400 tons/hr.
 - (6) One (1) reclaim radial belt conveyor, identified as F-6, with a maximum capacity of 300 tons/hr.
 - (7) One (1) salt stacking belt conveyor, identified as F-7, with a maximum capacity of 200 tons/hr.
 - (8) One (1) fertilizer building reclaim hopper/belt, identified as F-8, constructed in 2005, with a maximum capacity of 400 tons/hr.
 - (9) One (1) rail receiving drag conveyor, identified as F-9, with a maximum capacity of 300 tons/hr.
 - (10) One (1) rail receiving leg, identified as F-10, with a maximum capacity of 300 tons/hr.
 - (11) One (1) dome reclaim hopper/belt conveyor, identified as F-11, with a maximum capacity of 300 tons/hr.
 - (12) Two (2) hoppers for unloading barges and loading of trucks and railcars, each with a maximum capacity of 400 tons/hr.

Note: The Permittee has specified that neither water nor oil shall be applied to grain as a dust control measure. The Permittee has specified that an equivalent alternate measure, which may include, but is not limited to tarping, minimizing grain drop distance, and using best management practices to reduce emissions while filling and reclaiming, will be used to control dust from grain storage piles and conveyors on an as needed basis.

Insignificant Activities

- (a) Paved and unpaved roads and parking lots with public access. [326 IAC 6-4][326 IAC 6-5].

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

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

D.2.1 Particulate Emission Limitations [326 IAC 6.5-1-2]

Pursuant to 326 IAC 6.5-1-2(a) (formerly 326 IAC 6-1-2), particulate matter (PM) from each of the bulk receiving and handling operations shall not exceed 0.03 grain per dry standard cubic foot (gr/dscf) of exhaust air.

D.2.2 Fugitive PM Emission Limitations [326 IAC 6-5-4]

Pursuant to 326 IAC 6-5-4 (Fugitive Particulate Matter Emission Limitations), the Permittee shall control fugitive particulate matter emissions as follows:

- (a) Paved roads, unpaved roads, and parking lots:
Fugitive particulate matter emissions resulting from paved roads, unpaved roads, and parking lots shall be controlled using one or more of the following measures:
 - (1) Paved roads and parking lots:
 - (A) Cleaning by vacuum sweeping.
 - (B) Flushing.
 - (C) An equivalent alternate measure.
 - (2) Unpaved roads and parking lots:
 - (A) Paving with a material such as asphalt or concrete.
 - (B) Treating with a suitable and effective oil or chemical dust suppressant approved by the commissioner. The frequency of application shall be on an as needed basis.
 - (C) Spraying with water, the frequency of application shall be on an as needed basis.
 - (D) Double chip and seal the road surface and maintain on an as needed basis.
 - (E) An equivalent alternate measure.
- (b) Open aggregate piles:
 - (1) Measures to control fugitive particulate matter emissions shall be required for open aggregate piles consisting of material such as, but not limited to, sand, gravel, stone, grain, and coal and which material is finer than two hundred (200) mesh size equal to or greater than one percent (1%) by weight. Open aggregate material mesh size shall be determined by the "American Association of State Highway and Transportation Officials Test Method T27-74," or other equivalent procedures acceptable to the commissioner.
 - (2) Fugitive particulate matter emissions resulting from open aggregate piles consisting of such material as, but not limited to, sand, gravel, stone, grain, and coal shall be controlled using one or more of the following measures:
 - (A) Cleaning the area around the perimeter of the aggregate piles.
 - (B) Application of a suitable and effective oil or other dust suppressant on an as needed basis.

- (C) An equivalent alternate measure.
- (c) Fugitive particulate matter emissions resulting from outdoor conveying of aggregate material such as, but not limited to, sand, gravel, stone, grain, and coal, by equipment such as belt conveyors and bucket elevators shall be controlled using one or more of the following measures:
- (1) Enclosing the conveyor belt totally on the top and sides as needed to minimize visible emissions. Also, if needed, exhausting emissions to particulate control equipment during operation of conveyor.
 - (2) Applying water or suitable and effective chemical dust suppressant at the feed and/or intermediate points as needed to minimize visible emissions.
 - (3) An equivalent alternate measure.
- (d) Fugitive particulate matter emissions resulting from the transferring of aggregate material shall be controlled using one or more of the following measures:
- (1) Minimizing the vehicular distance between the transfer points.
 - (2) Enclosing the transfer points and if needed exhausting emissions to particulate control equipment during the operation of the transferring system.
 - (3) Application of water or suitable and effective chemical dust suppressant as needed to minimize visible emissions.
 - (4) An equivalent alternate measure.
- (e) Fugitive particulate matter emissions resulting from transportation of aggregate material by truck, front end loaders, or similar vehicles shall be controlled using one or more of the following measures:
- (1) Use of completely enclosed vehicles.
 - (2) Tarping the vehicle.
 - (3) Maintaining the vehicle body in such a condition that prevents any leaks of aggregate material.
 - (4) Spraying the materials in the vehicle with a suitable and effective dust suppressant.
 - (5) An alternate measure.
- (f) Fugitive particulate matter emissions resulting from the loading and unloading operations of the material from storage facilities such as bins, hoppers, and silos, onto or out of vehicles, shall be controlled using one or more of the following measures:
- (1) Enclosure of the material loading/unloading area.
 - (2) Total or partial enclosure of the facility and exhausting of emissions to particulate collection equipment. Such equipment shall be approved by the board.
 - (3) Spraying with water or suitable and effective chemical dust suppressant as needed to minimize visible emissions.
 - (4) Reduction of free fall distance.
 - (5) An equivalent alternate measure.

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

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

Source Name: Consolidated Grain and Barge Company
Source Address: 5130 Port Road, Jeffersonville, Indiana 47130
FESOP Permit No.: F019-21478-00001

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 AND ENFORCEMENT 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: Consolidated Grain and Barge Company
Source Address: 5130 Port Road, Jeffersonville, Indiana 47130
FESOP Permit No.: F019-21478-00001

This form consists of 2 pages

Page 1 of 2

- | |
|--|
| <p><input type="checkbox"/> This is an emergency as defined in 326 IAC 2-7-1(12)</p> <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: _____

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

FESOP Quarterly Report

Source Name: Consolidated Grain and Barge Co.
Source Address: 5130 Port Road, Jeffersonville, Indiana 47130
FESOP No.: F019-21478-00001
Facility: Grain Dryer
Parameter: Total grain, grain by-products, and gluten processed
Limit: Less than 116,000 tons per twelve (12) consecutive month period with compliance determined at the end of each month.

QUARTER: _____ YEAR: _____

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

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

Submitted by: _____

Title / Position: _____

Signature: _____

Date: _____

Phone: _____

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

FESOP Quarterly Report

Source Name: Consolidated Grain and Barge Co.
Source Address: 5130 Port Road, Jeffersonville, Indiana 47130
FESOP No.: F019-21478-00001
Facility: Barge Loadout Operation
Parameter: The amount of grain, grain by-products, and gluten loadout
Limit: Less than 1,160,000 tons per twelve (12) consecutive month period with compliance determined at the end of each month.

QUARTER: _____ YEAR: _____

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

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

Submitted by: _____

Title / Position: _____

Signature: _____

Date: _____

Phone: _____

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

FESOP Quarterly Report

Source Name: Consolidated Grain and Barge Co.
Source Address: 5130 Port Road, Jeffersonville, Indiana 47130
FESOP No.: F019-21478-00001
Facility: Truck Loadout Operation
Parameter: The amount of grain, grain by-products, and gluten loadout
Limit: Less than 145,000 tons per twelve (12) consecutive month period with compliance determined at the end of each month.

QUARTER: _____ YEAR: _____

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

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

Submitted by: _____

Title / Position: _____

Signature: _____

Date: _____

Phone: _____

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

FESOP Quarterly Report

Source Name: Consolidated Grain and Barge Co.
Source Address: 5130 Port Road, Jeffersonville, Indiana 47130
FESOP No.: F019-21478-00001
Facility: Rail Loadout Operation
Parameter: The amount of grain, grain by-products, and gluten loadout
Limit: Less than 290,000 tons per twelve (12) consecutive month period with compliance determined at the end of each month.

QUARTER: _____ YEAR: _____

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

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

Submitted by: _____

Title / Position: _____

Signature: _____

Date: _____

Phone: _____

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

FESOP Quarterly Report

Source Name: Consolidated Grain and Barge Co.
Source Address: 5130 Port Road, Jeffersonville, Indiana 47130
FESOP No.: F019-21478-00001
Facility: Pneumatic Conveying System
Parameter: The amount of product conveyed by the pneumatic conveying system
Limit: Less than 100,000 tons per twelve (12) consecutive month period with compliance determined at the end of each month.

QUARTER: _____ YEAR: _____

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

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

Submitted by: _____

Title / Position: _____

Signature: _____

Date: _____

Phone: _____

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE AND ENFORCEMENT BRANCH
FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP)
QUARTERLY DEVIATION AND COMPLIANCE MONITORING REPORT**

Source Name: Consolidated Grain and Barge Company
Source Address: 5130 Port Road, Jeffersonville, Indiana 47130
FESOP Permit No.: F019-21478-00001

Months: _____ to _____ Year: _____

Page 1 of 2

<p>This report shall be submitted quarterly based on a calendar year. Proper notice submittal under Section B –Emergency Provisions satisfies the reporting requirements of paragraph (a) of Section C- General Reporting. Any deviation from the requirements of this permit, the date(s) of each deviation, the probable cause of the deviation, and the response steps taken must be reported. A deviation required to be reported pursuant to an applicable requirement that exists independent of the permit, shall be reported according to the schedule stated in the applicable requirement and does not need to be included in this report. Additional pages may be attached if necessary. If no deviations occurred, please specify in the box marked "No deviations occurred this reporting period".</p>	
<input type="checkbox"/> NO DEVIATIONS OCCURRED THIS REPORTING PERIOD.	
<input type="checkbox"/> THE FOLLOWING DEVIATIONS OCCURRED THIS REPORTING PERIOD	
Permit Requirement (specify permit condition #)	
Date of Deviation:	Duration of Deviation:
Number of Deviations:	
Probable Cause of Deviation:	
Response Steps Taken:	
Permit Requirement (specify permit condition #)	
Date of Deviation:	Duration of Deviation:
Number of Deviations:	
Probable Cause of Deviation:	
Response Steps Taken:	

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

Form Completed by: _____

Title / Position: _____

Date: _____

Phone: _____

ATTACHMENT A

**Fugitive Dust Control Plan
Consolidated Grain and Barge Company
5130 Port Road
Jeffersonville, Indiana 47130
09/28/05**

Background

Fugitive dust sources of significance from this site can be categorized into two (2) groups: roadways and inactive ground level areas not dedicated to any particular use.

Total site size is 20.2 acres. Site has approximately 2,518 sq yd of unpaved roadways.

Plan of Control

- A. Person responsible for plan implementation:
Facility Manager
5130 Port Road
Jeffersonville, Indiana 47130
- B. Roadway Control Measures
 - 1. Vehicle speed on unpaved roadways will be controlled to speeds ranging up to 20 mph.
 - 2. The paved roadways will be swept as needed with either brooms or a mechanical sweeper.
 - 3. The unpaved roadways will be controlled as needed using a water spray or other dust suppressant control.
- C. Open Areas
 - 1. Vehicle traffic will be restricted from these sites. Current site traffic does not travel on these areas.
 - 2. Natural vegetative encroachment will be allowed and promoted. Current open areas are covered in natural vegetation consisting of grasses.
- D. Plan implementation

The effective date of this plan is 9-30-05.

**Appendix A: Emission Calculations
Emissions Summary**

Company Name: Consolidated Grain and Barge Co.
Address: 5130 Port Road, Jeffersonville, IN 47130
FESOP Renewal #: 019-21478-00001
FESOP Administrative Amendment #: 019-31938-00001
Reviewer: C. Sullivan
Date: July 16, 2012

Process Description	Unlimited/Uncontrolled Potential to Emit (PTE) (tons/year)*								Total HAPs	Worst Single HAP	
	PM	PM10	PM2.5	SO2	NOx	VOC	CO	GHGs as CO2e			
Non-Fugitive Emissions											
Grain Elevator (grain receiving, drying, handling, storage, and shipping)	504.8	173.3	85.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	---
Grain Dryer (natural gas combustion)	0.59	2.38	2.38	0.19	31.3	1.72	26.3	37793.6	0.59	0.56	Hexane
Bulk Products (receiving, handling, storage, shipping)	3.7	1.73	0.26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	---
Salt (receiving, handling, storage, shipping)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	---
Pneumatic Transfer System	473.0	302.2	302.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	---
Total PTE (Non-Fugitive)**	982.1	479.6	390.0	0.19	31.3	1.72	26.3	37793.6	0.59	0.56	Hexane
Fugitive Emissions**											
Bulk Products (receiving, handling, storage, shipping)	3.53	1.67	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	---
Salt (receiving, handling, storage, shipping)	1.84	0.87	0.13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	---
Storage Piles***	1.65	0.58	0.58	0.0	0.0	0.0	0.0	0.0	0.0	0.0	---
Unpaved Roads***	711.6	181.4	18.14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	---
Total PTE (Fugitive)**	718.7	184.5	19.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	---
Total PTE (Non-Fugitive and Fugitive)**	1700.8	664.1	409.1	0.19	31.3	1.72	26.3	37793.6	0.59	0.56	Hexane

Process Description	Limited/Uncontrolled Potential to Emit (PTE) (tons/year)*								Total HAPs	Worst Single HAP	
	PM	PM10	PM2.5	SO2	NOx	VOC	CO	GHGs as CO2e			
Non-Fugitive Emissions											
Grain Elevator (grain receiving, drying, handling, storage, and shipping)	209.0	64.9	21.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	---
Grain Dryer (natural gas combustion)	0.61	2.43	2.43	0.19	31.9	1.76	26.8	38549.4	0.60	0.57	Hexane
Bulk Products (receiving, handling, storage, shipping)	3.7	1.73	0.26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	---
Salt (receiving, handling, storage, shipping)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	---
Pneumatic Transfer System	36.0	23.0	23.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	---
Total PTE (Non-Fugitive)**	249.3	92.1	47.4	0.19	31.9	1.76	26.8	38549.4	0.60	0.57	Hexane
Fugitive Emissions**											
Bulk Products (receiving, handling, storage, shipping)	3.53	1.67	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	---
Salt (receiving, handling, storage, shipping)	1.84	0.87	0.13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	---
Storage Piles***	1.65	0.58	0.58	0.0	0.0	0.0	0.0	0.0	0.0	0.0	---
Unpaved Roads***	711.6	181.4	18.14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	---
Total PTE (Fugitive)**	718.7	184.5	19.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	---
Total PTE (Non-Fugitive and Fugitive)**	967.9	276.6	66.5	0.19	31.9	1.76	26.8	38549.4	0.60	0.57	Hexane

Process Description	Limited/Controlled Potential to Emit (PTE) (tons/year)*								Total HAPs	Worst Single HAP	
	PM	PM10	PM2.5	SO2	NOx	VOC	CO	GHGs as CO2e			
Non-Fugitive Emissions											
Grain Elevator (grain receiving, drying, handling, storage, and shipping)	198.78	62.36	19.14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	---
Grain Dryer (natural gas combustion)	0.61	2.43	2.43	0.19	31.9	1.76	26.8	38549.4	0.60	0.57	Hexane
Bulk Products (receiving, handling, storage, shipping)	3.7	1.73	0.26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	---
Salt (receiving, handling, storage, shipping)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	---
Pneumatic Transfer System	36.0	23.0	23.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	---
Total PTE (Non-Fugitive)**	239.0	89.5	44.83	0.19	31.9	1.76	26.8	38549.4	0.60	0.57	Hexane
Fugitive Emissions**											
Bulk Products (receiving, handling, storage, shipping)	3.53	1.67	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	---
Salt (receiving, handling, storage, shipping)	1.84	0.87	0.13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	---
Storage Piles****	0.82	0.29	0.29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	---
Unpaved Roads****	355.8	90.7	9.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0	---
Total PTE (Fugitive)**	362.0	93.5	9.74	0.0	0.0	0.0	0.0	0.0	0.0	0.0	---
Total PTE (Non-Fugitive and Fugitive)**	601.1	183.0	54.6	0.19	31.9	1.76	26.8	38549.4	0.60	0.57	Hexane

Notes:

*Potential to Emit (PTE) is based on rated capacity at 8,760 hours/year.

**Since this type of operation is not one of the twenty-eight (28) listed source categories under 326 IAC 2-2, 326 IAC 2-3, or 326 IAC 2-7, and there is no applicable New Source Performance Standard that was in effect on August 7, 1980, fugitive emissions are not counted toward the determination of PSD, Emission Offset, and Part 70 Permit applicability.

***Mitigated PTE (tons/yr) is taking natural mitigation due to precipitation into consideration.

****Controlled PTE (tons/yr) pursuant to control measures outlined in fugitive dust control plan.

Appendix A: Emission Calculations
Grain Elevator: Grain, Grain By-products, and Gluten Receiving, Handling, Storage, and Shipping

Company Name: Consolidated Grain and Barge Co.
 Address: 5130 Port Road, Jeffersonville, IN 47130
 FESOP Renewal #: 019-21478-00001
 FESOP Administrative Amendment #: 019-31938-00001
 Reviewer: C. Sullivan
 Date: July 16, 2012

1. Potential Grain Throughput Calculations

To determine the potential to emit air pollution from a grain elevator, IDEM OAQ uses a calculation methodology developed for grain elevators contained in an EPA Memorandum (dated 11/4/1995) entitled "Calculating Potential to Emit (PTE) and Other Guidance for Grain Handling Facilities". This memorandum is currently available on the internet at the following EPA website: <http://www.epa.gov/ttn/oarpg/t5/memoranda/grainfml.pdf>

As explained in the above EPA memorandum, the grain elevator methodology takes the highest amount of grain received at an individual grain elevator during the previous five (5) years and multiplies times a scaling factor of 1.2 to determine the potential grain throughput of a grain elevator. The scaling factor allows for a twenty percent increase in grain throughput over time, ensuring that the calculations are conservative.

The source has requested that the potential grain, grain by-products, and gluten throughput be assumed to be 1,595,000 tons/year, which is greater than 1.2 times the maximum annual grain received during the last 5 years

	Potential Throughput (tons/year)
Barge Loadout	1,160,000
Truck Loadout	145,000
Rail Loadout	290,000
Total*	1,595,000

Total number of internal handling steps = 2
 Potential Internal Handling Throughput = 3,190,000 tons/year

2. Unlimited PTE Calculations

Emissions Unit Description	Potential Throughput (tons/yr)	Uncontrolled Emission Factor (lbs/ton)			Unlimited/Uncontrolled PTE (tons/yr)			Control Device(s)	Collection and Control Efficiency (%)	Unlimited/Controlled PTE (tons/yr)			
		PM	PM10	PM2.5	PM	PM10	PM2.5			PM	PM10	PM2.5	
Receiving (Truck/Railcar/Barge)**	1,595,000	0.18	0.059	0.010	143.55	47.05	7.98	None**	0%	143.55	47.05	7.98	
Internal Handling	3,190,000	0.061	0.034	0.0058	97.30	54.23	9.25	Baghouse BH1	99%	0.97	0.54	0.09	
Drying - Column Dryer***	1,595,000	0.22	0.055	0.055	175.45	43.86	43.86	Perforation Plate	80%	35.09	8.77	8.77	
Storage - Silos and Bins	1,595,000	0.025	0.0063	0.0011	19.94	5.02	0.88	None	0%	19.94	5.02	0.88	
Loadout (Truck/Railcar/Barge)***	1,595,000	0.086	0.029	0.029	68.59	23.13	23.13	None	0%	68.59	23.13	23.13	
					504.82	173.30	85.09		Totals		268.1	84.52	40.84

Methodology

*The source has requested that the potential grain, grain by-products, and gluten throughput be assumed to be 1,595,000 tons/year, which is greater than 1.2 times the maximum annual grain received during the last 5 years

**Receiving by straight truck produces more particulate emissions than receiving by hopper truck, railcar, or barge. As a worst case assumption, IDEM has assumed all receiving is by straight truck with no control.

***Shipping by truck produces more particulate emissions than shipping by railcar or barge. To constitute a realistic maximum particulate emissions IDEM has assumed all shipping is handled by truck.

Emission factors are from AP 42 Table 9.9.1-1 Particulate Emission Factors for Grain Elevators (3/03)

Potential Internal Handling Throughput (tons/year) = [Potential Throughput (tons/year)] * [Total number of internal handling steps]

Unlimited/Uncontrolled PTE (tons/yr) = [Potential Throughput (tons/yr)] * [Emission Factor (lbs/ton)] * [ton/2,000 lbs]

Unlimited/Controlled PTE (tons/yr) = [Unlimited/Uncontrolled PTE (tons/yr)] * [1 - Control Efficiency]

Appendix A: Emission Calculations
Grain Elevator: Grain, Grain By-products, and Gluten Receiving, Handling, Storage, and Shipping

Company Name: Consolidated Grain and Barge Co.
 Address: 5130 Port Road, Jeffersonville, IN 47130
 FESOP Renewal #: 019-21478-00001
 FESOP Administrative Amendment #: 019-31938-00001
 Reviewer: C. Sullivan
 Date: July 16, 2012

1. Grain, Grain By-products, and Gluten Throughput Limitations

The grain, grain by-products, and gluten throughput is limited as follows

	Limited Throughput (tons/year)
Barge Loadout	1,160,000
Truck Loadout	145,000
Rail Loadout	290,000
Total Loadout	1,595,000

2. Limited PTE Calculations

Receiving (Controlled)*

Emissions Unit Description	Control Device(s)	PM Limit (lbs/hr)	PM10 Limit (lbs/hr)	PM2.5 Limit (lbs/hr)	Limited/Controlled PTE		
					PM	PM10	PM2.5
Receiving and Internal Handling Operations (Controlled)	Baghouse BH1	3.04	1.12	1.12	13.32	4.91	4.91

Emissions Unit Description	Limited Throughput (tons/yr)	Uncontrolled Emission Factor (lbs/ton)			Limited PTE (tons/yr)			Control Device(s)	Collection and Control Efficiency (%)	Limited/Controlled PTE (tons/yr)		
		PM	PM10	PM2.5	PM	PM10	PM2.5			PM	PM10	PM2.5
Receiving (Truck,	1,595,000	0.18	0.059	0.010	143.55	47.05	7.98	None*	0%	143.55	47.05	7.98
Drying - Column Dryer	116,000	0.22	0.055	0.055	12.76	3.19	3.19	Perforation Plate	80%	2.55	0.64	0.64
Storage - Silos and Bins	1,595,000	0.025	0.0063	0.0011	19.94	5.02	0.88	None	0%	19.94	5.02	0.88
Barge Loadout	1,160,000	0.016	0.004	0.004	9.28	2.32	2.32	None	0%	9.28	2.32	2.32
Truck Loadout	145,000	0.086	0.029	0.029	6.24	2.10	2.10	None	0%	6.24	2.10	2.10
Rail Loadout	290,000	0.027	0.0022	0.0022	3.92	0.32	0.32	None	0%	3.92	0.32	0.32
Totals					208.99	64.91	21.69		Totals	198.78	62.36	19.14

Methodology

*Since the truck dump pit 3 (uncontrolled) could potentially receive the entire limited throughput, as a worst case assumption all receiving is assumed uncontrolled

Receiving by straight truck produces more particulate emissions than receiving by hopper truck, railcar, or barge. As a worst case assumption, IDEM has assumed all receiving is by straight truck

Emission factors are from AP 42 Table 9.9.1-1 Particulate Emission Factors for Grain Elevators (3/03)

Limited Internal Handling Throughput (tons/year) = [Limited Throughput (tons/year)] * [Total number of internal handling steps]

Limited/Uncontrolled PTE (tons/yr) = [Limited Throughput (tons/yr)] * [Emission Factor (lbs/ton)] * [ton/2,000 lbs]

Limited/Controlled PTE (tons/yr) = [Limited/Uncontrolled PTE (tons/yr)] * [1 - Control Efficiency]

**TSD Appendix A: Emissions Calculations
Maximum Permanent Storage Capacity (bushels) for NSPS Subpart DD Applicability**

**Company Name: Consolidated Grain and Barge Co.
Address: 5130 Port Road, Jeffersonville, IN 47130
FESOP Renewal #: 019-21478-00001
FESOP Administrative Amendment #: 019-31938-00001
Reviewer: C. Sullivan
Date: July 16, 2012**

Bulk Density of Grain = 56 lbs/bushel

Unit	Maximum Storage Capacity (tons)	Maximum Storage Capacity (bushels)
Bin 1	1,900	69,176
Bin 2	1,900	69,563
Bin 3	457	17,498
Bin 4	1,900	69,046
Bin 5	1,900	69,563
Bin 6	350	12,816
Bin 7	850	31,370
Bin 8	350	12,816
Bin 9	1,900	69,111
Bin 10	1,900	69,887
Bin 11	474	17,498
Bin 12	1,900	68,788
Bin 13	1,900	69,305
Bin 14	18,200	609,982
Bin 15	15,120	503,688
Bin 16	18,200	583,994
Total		2,344,101

Note: Pursuant to NSPS Subpart DD, 40 CFR 60.301 (Definitions), "permanent storage capacity" means grain storage capacity which is inside a building, bin, or silo.

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

**Company Name: Consolidated Grain and Barge Co.
Address: 5130 Port Road, Jeffersonville, IN 47130
FESOP Renewal #: 019-21478-00001
FESOP Administrative Amendment #: 019-31938-00001
Reviewer: C. Sullivan
Date: July 16, 2012**

Heat Input Capacity MMBtu/hr	HHV mmBtu mmscf	Potential Throughput MMCF/yr
72.9	1020	626.1

Emission Factor in lb/MMCF	Pollutant						
	PM*	PM10*	direct PM2.5*	SO2	NOx	VOC	CO
	1.9	7.6	7.6	0.6	100 **see below	5.5	84
Potential Emission in tons/yr	0.59	2.38	2.38	0.19	31.30	1.72	26.30

*PM emission factor is filterable PM only. PM10 emission factor is filterable and condensable PM10 combined.
PM2.5 emission factor is filterable and condensable PM2.5 combined.

Methodology

All emission factors are based on normal firing.

MMBtu = 1,000,000 Btu

MMCF = 1,000,000 Cubic Feet of Gas

Emission Factors are from AP 42, Chapter 1.4, Tables 1.4-1, 1.4-2, 1.4-3, SCC #1-02-006-02, 1-01-006-02, 1-03-006-02, and 1-03-006-03

Potential Throughput (MMCF) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1 MMCF/1,020 MMBtu

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

See page 5 for HAPs emissions calculations.

updated 7/11

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

**Company Name: Consolidated Grain and Barge Co.
 Address: 5130 Port Road, Jeffersonville, IN 47130
 FESOP Renewal #: 019-21478-00001
 FESOP Minor Permit Revision #: 019-31605-00001
 Reviewer: C. Sullivan
 Date: July 16, 2012**

HAPs - Organics					
Emission Factor in lb/MMcf	Benzene 2.1E-03	Dichlorobenzene 1.2E-03	Formaldehyde 7.5E-02	Hexane 1.8E+00	Toluene 3.4E-03
Potential Emission in tons/yr	6.6E-04	3.8E-04	2.3E-02	0.56	1.1E-03

HAPs - Metals					
Emission Factor in lb/MMcf	Lead 5.0E-04	Cadmium 1.1E-03	Chromium 1.4E-03	Manganese 3.8E-04	Nickel 2.1E-03
Potential Emission in tons/yr	1.6E-04	3.4E-04	4.4E-04	1.2E-04	6.6E-04

Total 0.59

Methodology is the same as page 1.

The five highest organic and metal HAPs emission factors are provided above.
 Additional HAPs emission factors are available in AP-42, Chapter 1.4.
 See Page 6 for Greenhouse Gas calculations.

updated 7/11

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

**Company Name: Consolidated Grain and Barge Co.
 Address: 5130 Port Road, Jeffersonville, IN 47130
 FESOP Renewal #: 019-21478-00001
 FESOP Minor Permit Revision #: 019-31605-00001
 Reviewer: C. Sullivan
 Date: July 16, 2012**

	Greenhouse Gas		
	CO2	CH4	N2O
Emission Factor in lb/MMcf	120,000	2.3	2.2
Potential Emission in tons/yr	37,565	0.72	0.69
Summed Potential Emissions in tons/yr	37,566		
CO2e Total in tons/yr	37,794		

Methodology

The N2O Emission Factor for uncontrolled is 2.2. The N2O Emission Factor for low Nox burner is 0.64.
 Emission Factors are from AP 42, Table 1.4-2 SCC #1-02-006-02, 1-01-006-02, 1-03-006-02, and 1-03-006-03.
 Global Warming Potentials (GWP) from Table A-1 of 40 CFR Part 98 Subpart A.
 $Emission (tons/yr) = Throughput (MMCF/yr) \times Emission\ Factor (lb/MMCF) / 2,000\ lb/ton$
 $CO2e (tons/yr) = CO2\ Potential\ Emission\ ton/yr \times CO2\ GWP (1) + CH4\ Potential\ Emission\ ton/yr \times CH4\ GWP (21) + N2O\ Potential\ Emission\ ton/yr \times N2O\ GWP (310).$

updated 7/11

Appendix A: Emission Calculations
Barge Unloading/Receiving (Incoming) of Bulk Products and Truck/Railcar Loading (Outgoing)
Particulate Emissions

Company Name: Consolidated Grain and Barge Co.
Address: 5130 Port Road, Jeffersonville, IN 47130
FESOP Renewal #: 019-21478-00001
FESOP Administrative Amendment #: 019-31938-00001
Reviewer: C. Sullivan
Date: July 16, 2012

Drop Operations (AP-42 Section 13.2.4)

To estimate potential fugitive dust emissions from unloading/receiving of bulk products from barge (batch or continuous drop operations), AP-42 emission factors for Aggregate Handling, Section 13.2.4 (fifth edition, 11/2006) are utilized.

Note: Bulk products can include fertilizer, salt, pig iron, clinker, aggregate (such as levelite), and occasional various bulk products determined by market and freight circumstances.

$$E_f = k \cdot (0.0032)^{0.4} \cdot (U/5)^{1.3} / (M/2)^{1.4}$$

where: E_f = Emission factor (lb/ton)
 k (PM) = 0.74 = particle size multiplier (0.74 assumed for aerodynamic diameter <=100 um)
 k (PM10) = 0.35 = particle size multiplier (0.35 assumed for aerodynamic diameter <=10 um)
 k (PM2.5) = 0.053 = particle size multiplier (0.35 assumed for aerodynamic diameter <=2.5 um)
 Outdoor Wind Speed (U) = 8.0 = worst case annual mean wind speed (Source: NOAA, 2011*)
 Indoor/Covered Conveyor Wind Speed (U) = 1.0 = worst case wind speed
 M = 7.4 = material % moisture content of materials (assuming products are similar to sand)**

	Emission factor (Ef) (lb/ton)		
	PM	PM10	PM2.5
Outdoor Emission Factor	6.99E-04	3.30E-04	5.00E-05
Indoor/Covered Conveyor Emission Factor	4.68E-05	2.21E-05	3.35E-06

Barge Unloading/Receiving (Incoming) of Bulk Products and Truck/Railcar Loading (Outgoing)

Type of Activity	Location of Drop Point	Type of Emissions	Maximum Material Handling Throughput (tons/hour)	Number of Drop Points	Uncontrolled PTE of PM (tons/yr)	Uncontrolled PTE of PM10 (tons/yr)	Uncontrolled PTE of PM2.5 (tons/yr)
Unloading bulk products from barge into hopper and conveyor F-1)	Outdoors	Fugitive	400	1	1.22	0.58	0.09
Conveyor F-1 to truck/railcar hopper or conveyor F-2	Outdoors	Non-Fugitive	400	1	1.22	0.58	0.09
Conveyor F-2 to conveyor F-3	Outdoors	Non-Fugitive	400	1	1.22	0.58	0.09
Conveyor F-3 to conveyor F-4	Indoors or Covered	Non-Fugitive	400	1	0.08	0.04	0.01
Conveyor F-4 to conveyor F-5	Indoors or Covered	Non-Fugitive	400	1	0.08	0.04	0.01
Unloading bulk products to indoor storage pile	Indoors or Covered	Fugitive	400	1	0.08	0.04	0.01
Unloading bulk products from storage pile to conveyor F-6, or conveyor F-8, or conveyor F-11	Indoors or Covered	Fugitive	400	1	0.08	0.04	0.01
Loading of bulk products into truck or railcar	Outdoors	Fugitive	400	1	1.22	0.58	0.09
Total Non-Fugitive Emissions (tons/yr)					2.61	1.24	0.19
Total Fugitive Emissions (tons/yr)					2.61	1.24	0.19

Methodology

Uncontrolled Potential to Emit (tons/yr) = [Maximum Material Handling Throughput (tons/hour)] * [Emission Factor (lb/ton)] * [Number of Drop Points] * [8760 hours/year] * [ton/2000 lbs]

*Worst case annual mean wind speed (Evansville, IN) from "Comparative Climatic Data", National Climatic Data Center, NOAA, 2011

<http://www1.ncdc.noaa.gov/pub/data/ccd-data/CCD-2011.pdf>

**Worst case moisture content of bulk products assumed equal to sand from AP42 Table 13.2.4-1 (for sand at a municipal solid waste landfill).

Abbreviations

PM = Particulate Matter
 PM10 = Particulate Matter (<10 um)
 PTE = Potential to Emit

Appendix A: Emission Calculations
Railcar Unloading/Receiving (Incoming) of Bulk Products and Truck/Railcar Loading (Outgoing)
Particulate Emissions

Company Name: Consolidated Grain and railcar Co.
Address: 5130 Port Road, Jeffersonville, IN 47130
FESOP Renewal #: 019-21478-00001
FESOP Administrative Amendment #: 019-31938-00001
Reviewer: C. Sullivan
Date: July 16, 2012

Drop Operations (AP-42 Section 13.2.4)

To estimate potential fugitive dust emissions from unloading/receiving of bulk products from railcar (batch or continuous drop operations), AP-42 emission factors for Aggregate Handling, Section 13.2.4 (fifth edition, 11/2006) are utilized.

Note: Bulk products can include fertilizer, salt, pig iron, clinker, aggregate (such as levellite), and occasional various bulk products determined by market and freight circumstances.

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

where: E_f = Emission factor (lb/ton)

k (PM) =	0.74	= particle size multiplier (0.74 assumed for aerodynamic diameter <=100 um)
k (PM10) =	0.35	= particle size multiplier (0.35 assumed for aerodynamic diameter <=10 um)
k (PM2.5) =	0.053	= particle size multiplier (0.35 assumed for aerodynamic diameter <=2.5 um)
Outdoor Wind Speed (U) =	8.0	= worst case annual mean wind speed (Source: NOAA, 2011*)
Indoor/Covered Conveyor Wind Speed (U) =	1.0	= worst case wind speed
M =	7.4	= material % moisture content of materials (assuming products are similar to sand)**

	Emission factor (Ef) (lb/ton)		
	PM	PM10	PM2.5
Outdoor Emission Factor	6.99E-04	3.30E-04	5.00E-05
Indoor/Covered Conveyor Emission Factor	4.68E-05	2.21E-05	3.35E-06

Railcar Unloading/Receiving (Incoming) of Bulk Products and Truck/Railcar Loading (Outgoing)

Type of Activity	Location of Drop Point	Type of Emissions	Maximum Material Handling Throughput (tons/hour)	Number of Drop Points	Uncontrolled PTE of PM (tons/yr)	Uncontrolled PTE of PM10 (tons/yr)	Uncontrolled PTE of PM2.5 (tons/yr)
Unloading bulk products from railcar into receiving pit	Outdoors	Non-Fugitive	300	1	0.92	0.43	0.07
Conveyor F-9 to conveyor F-10	Indoors or Covered	Non-Fugitive	300	1	0.06	0.03	0.00
Conveyor F-10 to truck/railcar hopper	Outdoors	Non-Fugitive	300	1	0.92	0.43	0.07
Loading bulk products into truck or railcar	Outdoors	Fugitive	300	1	0.92	0.43	0.07
Total Non-Fugitive Emissions (tons/yr)					1.04	0.49	0.07
Total Fugitive Emissions (tons/yr)					0.92	0.43	0.07

Methodology

Uncontrolled Potential to Emit (tons/yr) = [Maximum Material Handling Throughput (tons/hour)] * [Emission Factor (lb/ton)] * [Number of Drop Points] * [8760 hours/year] * [ton/2000 lbs]

*Worst case annual mean wind speed (Evansville, IN) from "Comparative Climatic Data", National Climatic Data Center, NOAA, 2011

<http://www1.ncdc.noaa.gov/pub/data/ccd-data/CCD-2011.pdf>

**Worst case moisture content of bulk products assumed equal to sand from AP42 Table 13.2.4-1 (for sand at a municipal solid waste landfill).

Abbreviations

PM = Particulate Matter
 PM10 = Particulate Matter (<10 um)
 PTE = Potential to Emit

**Appendix A: Emission Calculations
Receiving and Shipping of Salt by Truck
Particulate Emissions**

**Company Name: Consolidated Grain and Barge Co.
Address: 5130 Port Road, Jeffersonville, IN 47130
FESOP Renewal #: 019-21478-00001
FESOP Administrative Amendment #: 019-31938-00001
Reviewer: C. Sullivan
Date: July 16, 2012**

Drop Operations (AP-42 Section 13.2.4)

To estimate potential fugitive dust emissions from truck unloading (receiving) and truck loading (shipping) of salt (batch or continuous drop operations), AP-42 emission factors for Aggregate Handling, Section 13.2.4 (fifth edition, 11/2006) are utilized.

$$Ef = k \cdot (0.0032)^{1.3} \cdot (U/5)^{1.3} / (M/2)^{1.4}$$

where: Ef = Emission factor (lb/ton)

- k (PM) = 0.74 = particle size multiplier (0.74 assumed for aerodynamic diameter <=100 um)
- k (PM10) = 0.35 = particle size multiplier (0.35 assumed for aerodynamic diameter <=10 um)
- k (PM2.5) = 0.053 = particle size multiplier (0.35 assumed for aerodynamic diameter <=2.5 um)
- U = 8.0 = worst case annual mean wind speed (Source: NOAA, 2011*)
- M = 7.4 = material % moisture content of materials (assuming products are similar to sand)**

	Emission factor (Ef) (lb/ton)		
	PM	PM10	PM2.5
Outdoor Emission Factor	6.99E-04	3.30E-04	5.00E-05

Offsite Truck Unloading/Receiving (Incoming) and Offsite Truck Loading/Shipping (Outgoing)

Type of Activity	Location of Drop Point	Type of Emissions	Maximum Material Handling Throughput (tons/hour)	Number of Drop Points	Uncontrolled PTE of PM (tons/yr)	Uncontrolled PTE of PM10 (tons/yr)	Uncontrolled PTE of PM2.5 (tons/yr)
Unloading salt from truck to storage pile conveyor F-7	Outdoors	Fugitive	200	1	0.61	0.29	0.04
Conveyor F-7 to storage pile	Outdoors	Fugitive	200	1	0.61	0.29	0.04
Loading of trucks with salt using front end loader for offsite shipment	Outdoors	Fugitive	200	1	0.61	0.29	0.04

Total Potential to Emit

The total potential to emit is calculated assuming that the terminal can simultaneously unload and load trucks simultaneously using different equipment.

	PM	PM10	PM2.5
Total Non-Fugitive Emissions (tons/yr)	0.00	0.00	0.00
Total Fugitive Emissions (tons/yr)	1.84	0.87	0.13

Methodology

Uncontrolled Potential to Emit (tons/yr) = [Maximum Material Handling Throughput (tons/hour)] * [Emission Factor (lb/ton)] * [Number of Drop Points] * [8760 hours/year] * [ton/2000 lbs]

*Worst case annual mean wind speed (Evansville, IN) from "Comparative Climatic Data", National Climatic Data Center, NOAA, 2011

<http://www1.ncdc.noaa.gov/pub/data/ccd-data/CCD-2011.pdf>

**Worst case moisture content of bulk products assumed equal to sand from AP42 Table 13.2.4-1 (for sand at a municipal solid waste landfill).

Abbreviations

PM = Particulate Matter
PM10 = Particulate Matter (<10 um)
PTE = Potential to Emit

Appendix A: Emission Calculations
Fugitive Dust Emissions from Open Storage Pile Wind Erosion
Salt Pads A, B, and C

Company Name: Consolidated Grain and Barge Co.
 Address: 5130 Port Road, Jeffersonville, IN 47130
 FESOP Renewal #: 019-21478-00001
 FESOP Administrative Amendment #: 019-31938-00001
 Reviewer: C. Sullivan
 Date: July 16, 2012

Material Storage Piles (AP-42 Section 11.2.3)

The following calculations determine the amount of emissions created by wind erosion of storage stockpiles, based on 8,760 hours of use and USEPA's AP-42 (Pre 1983 Edition), Section 11.2.3.

$$E_f = 1.7 \cdot (s/1.5)^3 \cdot (365-p)/235 \cdot (f/15)$$

where E_f = emission factor (lb/acre/day)
 s = silt content (wt %)
 p = 125 days of rain greater than or equal to 0.01 inches
 f = 15 % of wind greater than or equal to 12 mph

Storage Pile*	Materials	Worst Case Silt Content (wt %)**	Emission Factor (lb/acre/day)	Maximum Anticipated Pile Size (acres)***	Unlimited PTE of PM (Before Control) (tons/yr)	Unlimited PTE of PM10/PM2.5 (Before Control) (tons/yr)
Salt Pads A, B, and C	salt	2.6	3.01	3.00	1.648	0.577

Totals PTE (Before Control) = 1.65 0.58
 Dust Control Efficiency = 50.0% 50.0%
Totals PTE (After Control) = 0.82 0.29

Methodology

*The bulk product storage buildings (Fertilizer Warehouse A, Fertilizer Warehouse B, Storage Dome A, and Storage Dome B) have no fugitive dust emissions from wind erosion, since they are enclosed buildings.

**Worst case silt content of bulk products assumed equal to sand from AP42 Table 13.2.4-1 (for sand at a municipal solid waste landfill).

***Maximum pile size (acres) estimated from aerial map.

Unlimited PTE of PM (tons/yr) = (Emission Factor (lb/acre/day)) * (Maximum Pile Size (acres)) * (ton/2000 lbs) * (8760 hours/yr)

Unlimited PTE of PM10 (tons/yr) = (Potential PM Emissions (tons/yr)) * 35%

**Appendix A: Emission Calculations
Potential To Emit of PM/PM10/PM2.5
Pneumatic Transfer System**

**Company Name: Consolidated Grain and Barge Co.
Address: 5130 Port Road, Jeffersonville, IN 47130
FESOP Renewal #: 019-21478-00001
FESOP Administrative Amendment #: 019-31938-00001
Reviewer: C. Sullivan
Date: July 16, 2012**

Unlimited/Uncontrolled Potential to Emit PM/PM10/PM2.5

Unit Description	Maximum Throughput Rate (tons/hr)	Uncontrolled Emission Factor (lbs/ton)		Unlimited/Uncontrolled PTE (lbs/hr)		Unlimited/Uncontrolled PTE (tons/yr)	
		PM	PM10/PM2.5	PM	PM10/PM2.5	PM	PM10/PM2.5
Pneumatic Pipe System	150	0.72	0.46	108.00	69.00	473.04	302.22

Limited and Controlled Potential to Emit PM/PM10/PM2.5

Unit Description	Limited Annual Throughput (tons/yr)	Limited PTE (tons/yr)	
		PM	PM10/PM2.5
Pneumatic Pipe System	100,000	36.00	23.00

Methodology

Emission factors are from AP-42, Chapter 11.12-2 for Concrete Batching.

Potential to Emit PM Before Controls/Limits (lbs/hr) = Maximum Throughput Rate (tons/hr) * Uncontrolled PM Emission Factor (lbs/ton)

Potential to Emit PM Before Controls/Limits (tons/yr) = Potential to Emit PM Before Controls/Limits * 1 ton/2000 lbs * 8760 days/yr

Potential to Emit PM10 Before Controls/Limits (lbs/hr) = Maximum Throughput Rate (tons/hr) * Uncontrolled PM10 Emission Factor (lbs/ton)

Potential to Emit PM10 Before Controls/Limits (tons/yr) = Potential to Emit PM10 Before Controls/Limits * 1 ton/2000 lbs * 8760 days/yr

Potential to Emit PM After Limit (tons/yr) = Limited Annual Throughput (tons/yr) * PM Emission Factor (lbs/ton) * 1 ton/2000 lbs

Potential to Emit PM10/PM2.5 After Limit (tons/yr) = Limited Annual Throughput (tons/yr) * PM10 Emission Factor (lbs/ton) * 1 ton/2000 lbs

*PM2.5 emissions are assumed to be equal to PM10 emissions.

Appendix A: Emission Calculations
Fugitive Dust Emissions - Unpaved Roads

Company Name: Consolidated Grain and Barge Co.
Address: 5130 Port Road, Jeffersonville, IN 47130
FESOP Renewal #: 019-21478-00001
FESOP Administrative Amendment #: 019-31938-00001
Reviewer: C. Sullivan
Date: July 16, 2012

Potential Grain, Grain By-Products, and Gluten Throughput = **1,595,000** tons/year
 Potential Bulkproduct Receiving by Barge and Railcar = **700** tons/hour
 Potential Bulkproduct Receiving by Barge and Railcar = **6,132,000** tons/year
 Salt Throughput = **1,752,000** tons/year

Unpaved Roads at Industrial Site

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

Process	Vehicle Type	Maximum Weight of Vehicle (tons)	Maximum Weight of Load (tons)	Maximum Weight of Vehicle and Load (tons/trip)	Maximum trips per year (trip/yr)	Total Weight driven per year (ton/yr)	Maximum one-way distance (feet/trip)*	Maximum one-way distance (miles/trip)	Maximum one-way miles (miles/yr)
Grain truck entering site full	Grain Tanker (5 axle bulk dry tanker)	19.0	26.0	45.0	6.1E+04	2.8E+06	2000	0.38	23237.2
Grain truck leaving site empty	Grain Tanker (5 axle bulk dry tanker)	19.0	0.0	19.0	6.1E+04	1.2E+06	2000	0.38	23237.2
Offsite bulk product truck entering site empty	Dump truck (16 CY)	16.0	0.0	16.0	2.7E+05	4.3E+06	2000	0.38	100988.1
Offsite bulk product truck leaving site full	Dump truck (16 CY)	16.0	23.0	39.0	2.7E+05	1.0E+07	2000	0.38	100988.1
Salt truck entering site empty	Dump truck (16 CY)	16.0	0.0	16.0	7.6E+04	1.2E+06	2000	0.38	28853.8
Salt truck leaving site full	Dump truck (16 CY)	16.0	23.0	39.0	7.6E+04	3.0E+06	2000	0.38	28853.8
Onsite utility/maintenance pickup truck (10 one-way trips per day)	Pickup Truck	2.5	0.7	3.2	3.7E+03	1.2E+04	800	0.15	553.0
Total					811,908	22,790,877			306,711

Average Vehicle Weight Per Trip = **28.1** tons/trip
 Average Miles Per Trip = **0.38** miles/trip

Unmitigated Emission Factor, $E_f = k \cdot [(s/12)^a] \cdot [(W/3)^b]$ (Equation 1a from AP-42 13.2.2)

	PM	PM10	PM2.5	
where k =	4.9	1.5	0.15	lb/mi = particle size multiplier (AP-42 Table 13.2.2-2 for Industrial Roads)
s =	4.8	4.8	4.8	% = mean % silt content of unpaved roads (AP-42 Table 13.2.2-1 Sand/Gravel Processing Plant)
a =	0.7	0.9	0.9	= constant (AP-42 Table 13.2.2-2 for Industrial Roads)
W =	28.1	28.1	28.1	tons = average vehicle weight (provided by source)
b =	0.45	0.45	0.45	= constant (AP-42 Table 13.2.2-2 for Industrial Roads)

Taking natural mitigation due to precipitation into consideration, Mitigated Emission Factor, $E_{ext} = E \cdot [(365 - P)/365]$ (Equation 2 from AP-42 13.2.2)

Mitigated Emission Factor, $E_{ext} = E \cdot [(365 - P)/365]$
 where P = **125** days of rain greater than or equal to 0.01 inches (see Fig. 13.2.2-1)

	PM	PM10	PM2.5	
Unmitigated Emission Factor, E_f =	7.06	1.80	0.18	lb/mile
Mitigated Emission Factor, E_{ext} =	4.64	1.18	0.12	lb/mile
Dust Control Efficiency =	50%	50%	50%	(pursuant to control measures outlined in fugitive dust control plan)

Process	Vehicle Type	Unmitigated PTE of PM (tons/yr)	Unmitigated PTE of PM10 (tons/yr)	Unmitigated PTE of PM2.5 (tons/yr)	Mitigated PTE of PM (tons/yr)	Mitigated PTE of PM10 (tons/yr)	Mitigated PTE of PM2.5 (tons/yr)	Controlled PTE of PM (tons/yr)	Controlled PTE of PM10 (tons/yr)	Controlled PTE of PM2.5 (tons/yr)
Grain truck entering site full	Grain Tanker (5 axle bulk dry tanker)	82.00	20.90	2.09	53.92	13.74	1.37	26.96	6.87	0.69
Grain truck leaving site empty	Grain Tanker (5 axle bulk dry tanker)	82.00	20.90	2.09	53.92	13.74	1.37	26.96	6.87	0.69
Offsite bulk product truck entering site empty	Dump truck (16 CY)	356.36	90.82	9.08	234.32	59.72	5.97	117.16	29.86	2.99
Offsite bulk product truck leaving site full	Dump truck (16 CY)	356.36	90.82	9.08	234.32	59.72	5.97	117.16	29.86	2.99
Salt truck entering site empty	Dump truck (16 CY)	101.82	25.95	2.59	66.95	17.06	1.71	33.47	8.53	0.85
Salt truck leaving site full	Dump truck (16 CY)	101.82	25.95	2.59	66.95	17.06	1.71	33.47	8.53	0.85
Onsite utility/maintenance pickup truck (10 one-way trips per day)	Pickup Truck	1.95	0.50	0.05	1.28	0.33	0.03	0.64	0.16	0.02
Total		1082.30	275.84	27.58	711.65	181.37	18.14	355.82	90.69	9.07

Methodology

*Maximum one-way distance measured from Utica Pike road to grain elevator unloading/loading area.
 Total Weight driven per day (ton/day) = [Maximum Weight Loaded (tons/trip)] * [Maximum trips per day (trip/day)]
 Maximum one-way distance (mi/trip) = [Maximum one-way distance (feet/trip)] / [5280 ft/mile]
 Maximum one-way miles (miles/day) = [Maximum trips per year (trip/day)] * [Maximum one-way distance (mi/trip)]
 Average Vehicle Weight Per Trip (ton/trip) = SUM[Total Weight driven per day (ton/day)] / SUM[Maximum trips per day (trip/day)]
 Average Miles Per Trip (miles/trip) = SUM[Maximum one-way miles (miles/day)] / SUM[Maximum trips per year (trip/day)]
 Unmitigated PTE (tons/yr) = (Maximum one-way miles (miles/yr)) * (Unmitigated Emission Factor (lb/mile)) * (ton/2000 lbs)
 Mitigated PTE (tons/yr) = (Maximum one-way miles (miles/yr)) * (Mitigated Emission Factor (lb/mile)) * (ton/2000 lbs)
 Controlled PTE (tons/yr) = (Mitigated PTE (tons/yr)) * (1 - Dust Control Efficiency)

Abbreviations

PM = Particulate Matter
 PM10 = Particulate Matter (<10 um)
 PM2.5 = Particulate Matter (<2.5 um)
 PTE = Potential to Emit



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

We Protect Hoosiers and Our Environment.

Mitchell E. Daniels Jr.
Governor

Thomas W. Easterly
Commissioner

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Indianapolis, Indiana 46204
(317) 232-8603
Toll Free (800) 451-6027
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SENT VIA U.S. MAIL: CONFIRMED DELIVERY AND SIGNATURE REQUESTED

TO: Chuck Long
Consolidated Grain and Barge Company
5130 Port Road
Jeffersonville, IN 47130

DATE: August 30, 2012

FROM: Matt Stuckey, Branch Chief
Permits Branch
Office of Air Quality

SUBJECT: Final Decision
Administrative Amendment
019-31938-00001

Enclosed is the final decision and supporting materials for the air permit application referenced above. Please note that this packet contains the original, signed, permit documents.

The final decision is being sent to you because our records indicate that you are the contact person for this application. However, if you are not the appropriate person within your company to receive this document, please forward it to the correct person.

A copy of the final decision and supporting materials has also been sent via standard mail to:
Terry Ham – Manager/Region Operations Manager
OAQ Permits Branch Interested Parties List

If you have technical questions regarding the enclosed documents, please contact the Office of Air Quality, Permits Branch at (317) 233-0178, or toll-free at 1-800-451-6027 (ext. 3-0178), and ask to speak to the permit reviewer who prepared the permit. If you think you have received this document in error, please contact Joanne Smiddie-Brush of my staff at 1-800-451-6027 (ext 3-0185), or via e-mail at jbrush@idem.IN.gov.

Final Applicant Cover letter.dot 11/30/07

Mail Code 61-53

IDEM Staff	GHOTOPP 8/30/2012 Consolidated Grain and Barge Company 019-31938-00001 final		AFFIX STAMP HERE IF USED AS CERTIFICATE OF MAILING	
Name and address of Sender		Indiana Department of Environmental Management Office of Air Quality – Permits Branch 100 N. Senate Indianapolis, IN 46204	Type of Mail: CERTIFICATE OF MAILING ONLY	

Line	Article Number	Name, Address, Street and Post Office Address	Postage	Handing Charges	Act. Value (If Registered)	Insured Value	Due Send if COD	R.R. Fee	S.D. Fee	S.H. Fee	Rest. Del. Fee	Remarks
1		Chuck Long Consolidated Grain and Barge Company 5130 Port Road Jeffersonville IN 47130 (Source CAATS) via confirmed delivery										
2		Terry Ham Mgr/Region Ops Mgr Consolidated Grain and Barge Company 5130 Port Road Jeffersonville IN 47130 (RO CAATS)										
3		Ms. Rhonda England 17213 Persimmon Run Rd Borden IN 47106-8604 (Affected Party)										
4		Ms. Betty Hislip 602 Dartmouth Drive, Apt 8 Clarksville IN 47129 (Affected Party)										
5		Mrs. Sandy Banet 514 Haddox Rd Henryville IN 47126 (Affected Party)										
6		Jeffersonville City Council and Mayors Office 500 Quarter Master Jeffersonville IN 47130 (Local Official)										
7		Mr. Robert Bottom Paddlewheel Alliance P.O. Box 35531 Louisville KY 40232-5531 (Affected Party)										
8		Clark County Board of Commissioners 501 E. Court Avenue Jeffersonville IN 47130 (Local Official)										
9		Clark County Health Department 1320 Duncan Avenue Jeffersonville IN 47130-3723 (Health Department)										
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