Indiana Department of Environmental Management
We Protect Hoosiers and Our Environment.
100 N. Senate Avenue • Indianapolis, IN 46204
(800) 451-6027 • (317) 232-8603 • www.idem.IN.gov

Michael R. Pence
Governor

Carol S. Comer
Commissioner

NOTICE OF 30-DAY PERIOD
FOR PUBLIC COMMENT

Preliminary Findings Regarding a
Significant Revision to a
Federally Enforceable State Operating Permit (FESOP)

Significant Permit Revision No.: 019-37068-00001

The Indiana Department of Environmental Management (IDEM) has received an application from Consolidated Grain and Barge Co., located at 5130 Port Road, Jeffersonville, Indiana 47130, for a significant revision of its FESOP issued on January 15, 2016. If approved by IDEM's Office of Air Quality (OAQ), this proposed revision would allow Consolidated Grain and Barge Co to make certain changes at its existing source. Consolidated Grain and Barge Co. has applied to adjust existing PM10 and PM2.5 limits and correspondingly increase its yearly grain throughput while maintaining the status of a FESOP and minor PSD source.

A copy of the permit application and IDEM's preliminary findings are available at:

Clarksville Branch Library
1312 Eastern Boulevard
Jeffersonville, Indiana 47129

and

IDEM Southeast Regional Office
820 West Sweet Street
Brownstown, IN 47220-9557

A copy of the preliminary findings is available on the Internet at: http://www.in.gov/ai/appfiles/idem-caats/.

How can you participate in this process?

The date that this notice is published in a newspaper marks the beginning of a 30-day public comment period. If the 30th day of the comment period falls on a day when IDEM offices are closed for business, all comments must be postmarked or delivered in person on the next business day that IDEM is open.

You may request that IDEM hold a public hearing about this draft permit. If adverse comments concerning the **air pollution impact** of this draft permit are received, with a request for a public hearing, IDEM will decide whether or not to hold a public hearing. IDEM could also decide to hold a public meeting instead of, or in addition to, a public hearing. If a public hearing or meeting is held, IDEM will make a separate announcement of the date, time, and location of that hearing or meeting. At a hearing, you would have an opportunity to submit written comments and make verbal comments. At a meeting, you would have an opportunity to submit written comments, ask questions, and discuss any air pollution concerns with IDEM staff.

Comments and supporting documentation, or a request for a public hearing should be sent in writing to IDEM at the address below. If you comment via e-mail, please include your full U.S. mailing address so that you can be added to IDEM's mailing list to receive notice of future action related to this permit. If you

do not want to comment at this time, but would like to receive notice of future action related to this permit application, please contact IDEM at the address below. Please refer to permit number SPR019-37068-00001 in all correspondence.

Comments should be sent to:

Aida DeGuzman
IDEM, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251
(800) 451-6027, ask for extension 3-4972
Or dial directly: (317) 233-4972
Fax: (317) 232-6749 attn: Aida DeGuzman
E-mail: adeguzma@idem.IN.gov

All comments will be considered by IDEM when we make a decision to issue or deny the permit. Comments that are most likely to affect final permit decisions are those based on the rules and laws governing this permitting process (326 IAC 2), air quality issues, and technical issues. IDEM does not have legal authority to regulate zoning, odor, or noise. For such issues, please contact your local officials.

For additional information about air permits and how the public and interested parties can participate, refer to the IDEM Permit Guide on the Internet at: http://www.in.gov/idem/5881.htm; and the Citizens' Guide to IDEM on the Internet at: http://www.in.gov/idem/6900.htm.

What will happen after IDEM makes a decision?

Following the end of the public comment period, IDEM will issue a Notice of Decision stating whether the permit has been issued or denied. If the permit is issued, it may be different than the draft permit because of comments that were received during the public comment period. If comments are received during the public notice period, the final decision will include a document that summarizes the comments and IDEM's response to those comments. If you have submitted comments or have asked to be added to the mailing list, you will receive a Notice of the Decision. The notice will provide details on how you may appeal IDEM's decision, if you disagree with that decision. The final decision will also be available on the Internet at the address indicated above, at the local library indicated above, at the IDEM Regional Office indicated above, and the IDEM public file room on the 12th floor of the Indiana Government Center North, 100 N. Senate Avenue, Indianapolis, Indiana 46204-2251.

If you have any questions, please contact Aida DeGuzman of my staff at the above address.

Josiah K. Balogun, Section Chief
Permits Branch
Office of Air Quality

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Mr. Chuck Long
Consolidated Grain and Barge Co.
5130 Port Road
Jeffersonville, Indiana 47130

Re: 019-37068-00001
Significant Revision to
F019-35968-00001

Dear Mr. Long:

Consolidated Grain and Barge Co. was issued a Federally Enforceable State Operating Permit (FESOP) Renewal No. F019-35968-00001 on January 15, 2016 for a stationary grain elevator and bulk handling plant located at 5130 Port Road, Jeffersonville, Indiana 47130. On December 10, 2015, the Office of Air Quality (OAQ) received an application from the source requesting to adjust existing PM10 and PM2.5 limits reflected in Condition D.1.1 due to increase in yearly grain throughput. This revision will likewise, incorporate the emission units permitted in Minor Source Modification 019-36590-00001, issued as a modification to a Part 70 permit on June 3, 2016.

The attached Technical Support Document (TSD) provides additional explanation of the changes to the permit.

Pursuant to the provisions of 326 IAC 2-8-11.1, these changes to the permit are required to be reviewed in accordance with the Significant Permit Revision (SPR) procedures of 326 IAC 2-8-11.1(f). Pursuant to the provisions of 326 IAC 2-8-11.1, a significant permit revision to this permit is hereby approved as described in the attached Technical Support Document (TSD).

Pursuant to 326 IAC 2-8-11.1, this permit shall be revised by incorporating the significant permit revision into the permit.

All other conditions of the permit shall remain unchanged and in effect. Please find attached the entire FESOP as revised, including the following one new and revised attachments.

Attachment A: Fugitive Dust Control Plan
Attachment B: 40 CFR 60, Subpart DD - New Source Performance Standards for Grain Elevators

The permit references the below listed attachment. Since this attachment has been provided in previously issued approvals for this source, IDEM OAQ has not included a copy of this attachment with this revision:

Attachment A: Fugitive Dust Control Plan

Previously issued approvals for this source containing these attachments are available on the Internet at: http://www.in.gov/ai/appfiles/idem-caats/.

Federal rules under Title 40 of United States Code of Federal Regulations may also be found on the U.S. Government Printing Office's Electronic Code of Federal Regulations (eCFR) website, located on the Internet at: http://www.ecfr.gov/cgi-bin/text-idx?tpl=/ecfrbrowse/Title40/40tab_02.tpl.

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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 Permit Guide on the Internet at: http://www.in.gov/idem/5881.htm; and the Citizens' Guide to IDEM on the Internet at: http://www.in.gov/idem/6900.htm.

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 Aida DeGuzman of my staff at 317-233-4972 or 1-800-451-6027, and ask for extension 3-4972.

Sincerely,

Josiah K. Balogun, Section Chief
Permits Branch
Office of Air Quality

Attachments: Technical Support Document and revised permit

JB/APD

cc: File - File - Clark County
Clark County Health Department
U.S. EPA, Region 5
Compliance and Enforcement Branch
IDEM Southeast Regional Office

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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.: F019-35968-00001	
Original signed/Issued by: Chrystal A. Wagner, Section Chief Permits Branch Office of Air Quality	Issuance Date: January 15, 2016 Expiration Date: January 15, 2026
Significant Permit Revision No. 019-37068-00001	
Issued by: Josiah K. Balogun, Section Chief Permits Branch Office of Air Quality	Issuance Date: Expiration Date: January 15, 2026

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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:	812-218-5257
SIC Code:	5153 (Grain and Field Beans) 4491 (Marine Cargo Handling)
County Location:	Clark
Source Location Status:	Nonattainment for $PM_{2.5}$ 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 1,200 tons/hr, equipped with quick-closing bi-fold doors.

(2) One (1) rail pit, identified as R-1, with a maximum throughput rate of 1400 tons/hr.

(3) One (1) public truck/rail pit, identified as PORT, with a maximum throughput rate of 220 tons/hr.

(b) One (1) grain handling operation, constructed after 1984, controlled by baghouse BH1, and consisting of the following:

(1) Two (2) receiving pit conveyors, identified as M-2 and M-3, each with a maximum capacity of 600 tons/hr, constructed in 2008.

(2) 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.

(3) Two (2) reclaim drag conveyors, identified as M-7 and M-8, constructed in 2006, each with a maximum capacity of 700 tons/hr.

(4) One (1) barge shipping belt conveyor, identified as M-9, with a maximum capacity of 1,400 tons/hr, constructed in 2010.

(5) One (1) grain leg, identified as M-13, with a maximum capacity of 290 tons/hr constructed in 2013.

(6) One (1) enclosed conveyor, identified as M-15, with a maximum capacity of 290 tons/hr,

constructed in 2013.

(7) One (1) grain leg, identified as M-16, with a maximum capacity of 290 tons/hr, constructed in 2013.

(8) One (1) enclosed conveyor, identified as M-17, with a maximum capacity of 290 tons/hr, constructed in 2013.

(9) One (1) bin 14 reclaim belt conveyor, identified as 14-R, with a maximum capacity of 1,080 tons/hr. constructed in 2014.

(10) One (1) bin 14 transfer belt conveyor, identified as 14-T, with a maximum capacity of 1,080 tons/hr, constructed in 2011.

(11) One (1) bin 14 fill belt conveyor, identified as 14-F, with a maximum capacity of 840 tons/hr, constructed in 1997.

(12) One (1) enclosed belt fill conveyor, identified as #15F, approved for construction in 2008, with a maximum capacity of 28,000 bushels per hour (840 tons per hour), controlled by baghouse BH1.

(13) One (1) enclosed drag reclaim conveyor, identified as #15R, approved for construction in 2008, with a maximum capacity of 28,000 bushels per hour (840 tons per hour), controlled by baghouse BH1.

(14) One (1) enclosed belt fill conveyor, identified as 16F, approved for construction in 2011, with a maximum capacity of 40,000 bushels (1,200 tons) per hour.

(15) One (1) enclosed belt conveyor, identified as 16R, approved for construction in 2011, with a maximum capacity of 36,000 bushels (1,080 tons) per hour.

(16) One (1) enclosed belt conveyor, identified as 17R, with a maximum throughput of 10,000 bushels per hour, approved in 2016 for construction, with no control.

[Under NSPS, Subpart DD, this unit is considered to be an affected facility]

(17) One (1) enclosed belt conveyor, identified as 18R, with a maximum throughput of 10,000 bushels per hour, approved in 2016 for construction, with no control.

[Under NSPS, Subpart DD, this unit is considered to be an affected facility]

(18) One (1) enclosed belt conveyor, identified as 19R, with a maximum throughput of 10,000 bushels per hour, approved in 2016 for construction, with no control.

[Under NSPS, Subpart DD, this unit is considered to be an affected facility]

(19) Three (3) grain legs, identified as M-17, M18 and M-19, with a maximum throughput of 10,000 bushels per hour approved in 2016 for construction, with no control.

[Under NSPS, Subpart DD, this unit is considered to be an affected facility]

(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) Nineteen (19) grain storage bins, consisting of the following:

(1) Eight (8) storage bins, identified as #1, #2, #4, #5, #9, #10, #12, and #13, constructed after 1984, each with a maximum storage capacity of 68,000 bushels (1,900 tons).

(2) One (1) storage bin, identified as #3, constructed after 1984, with a maximum capacity of 17,000 bushels (475 tons).

(3) Two (2) storage bins, identified as #6 and #8, constructed after 1984, each with a maximum storage capacity of 12,500 bushels (350 tons).

(4) One (1) storage bin, identified as #7, constructed after 1984, with a maximum storage capacity of 30,500 bushels (850 tons).

(5) One (1) storage bin, identified as #11, constructed after 1984, with a maximum storage capacity of 17,000 bushels (475tons).

(6) One (1) storage bin, identified as #14, constructed after 1984, with a maximum storage capacity of 650,000 bushels (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 20,000 bushels (600 tons/hr), constructed in 2015.

(9) One (1) steel storage bin, identified as Bin 16, approved for construction in 2011, with a maximum storage capacity of 650,000 bushels (18,200 tons).

(10) Two (2) grain storage bins, identified as Tank 1 and Tank 2, constructed after 1984, each with a maximum storage capacity of 4,200 bushels (120 tons).

(11) One (1) grain storage bin, identified as Bin 19, with a maximum storage capacity of 500,000 bushels, approved in 2016 for construction.

(e) One (1) grain loadout operation, and consisting of the following:

(1) One (1) barge loadout operation for grain, with a maximum capacity of 1400 tons/hr, constructed in 2010.

(2) Six (6) truck loadout operations for grain, constructed after 1984, each with a maximum capacity of 384 tons/hr, constructed in 1984.

(3) One (1) truck/rail loadout operation, with a maximum capacity of 560 tons/hr, constructed in 1984.

(f) One (1) truck/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.

(g) One (1) bulk product handling operation, and consisting of the following:

(1) One (1) bulk receiving belt conveyor, identified as F-1, with a maximum capacity of 900 tons/hr, constructed in 1984.

(2) One (1) reversing belt conveyor, identified as F-2, with a maximum capacity of 400 tons/hr, constructed in 1995.

(3) One (1) radial stacker belt conveyor, identified as F-3, with a maximum capacity of 900 tons/hr, constructed in 1995.

(4) One (1) cross conveyor, identified as F-4, constructed in 2005, with a maximum capacity of 400 tons/hr.

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(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) CTLC Fertilizer Building Rail Conveyor, identified as F-6, with a maximum capacity of 300 tons/hr, constructed in 2008.

(7) One (1) CGBF Fertilizer Building Truck Loadout Conveyor/Conditioner, identified as F-8, constructed in 2005, with a maximum capacity of 400 tons/hr, constructed in 2005.

(8) One (1) rail receiving drag conveyor, identified as F-9, with a maximum capacity of 300 tons/hr, constructed in 1995.

(9) One (1) rail receiving leg, identified as F-10, with a maximum capacity of 300 tons/hr, constructed in 1995.

(10) Two (2) hoppers for unloading barges and loading of trucks and railcars, each with a maximum capacity of 400 tons/hr, constructed in 1985.

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.

(h) One (1) grain unloading operation, approved for construction in 2012, with baghouse BH2 for particulate control, consisting of the following:

(1) One (1) truck pit, identified as ~~truck pit 1~~, 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)(I)]

This stationary source also includes the following insignificant activities:

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

(b) Other emission units, not regulated by a NESHAP, with PM10, NOx, and SO_2 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;

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(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;

(4) One (1) salt storage pile, constructed in 1984, with a maximum capacity of 90,000 tons; and

(5) One (1) salt loading operation using front end loaders, with a maximum capacity of 200 tons/hr.

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).

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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, F019-35968-00001, 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

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(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:

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(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.

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(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 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**.**

(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 F019-35968-00001 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.

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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(42). 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.

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(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 5
Air and Radiation Division, Regulation Development Branch - Indiana (AR-18J)
77 West Jackson Boulevard
Chicago, Illinois 60604-3590

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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.

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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 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.

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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), 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.

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

The Permittee shall comply with the applicable requirements of 326 IAC 14-10, 326 IAC 18, and 40 CFR 61.140.

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

C.7 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.8 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.9 Compliance Monitoring [326 IAC 2-8-4(3)][326 IAC 2-8-5(a)(1)]

(a) For new units:
Unless otherwise specified in the approval for the new emission unit(s), compliance monitoring for new emission units shall be implemented on and after the date of initial start-up.

(b) For existing units:

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

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

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

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

C.10 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. The analog instrument shall be capable of measuring values outside of the normal range.

(b) The Permittee may request that the IDEM, OAQ approve the use of an instrument that does not meet the above specifications provided the Permittee can demonstrate that an alternative instrument specification will adequately ensure compliance with permit conditions requiring the measurement of the parameters.

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

C.11 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.12 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.13 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.14 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.15 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, where applicable:

(AA) All calibration and maintenance records.
(BB) All original strip chart recordings for continuous monitoring instrumentation.
(CC) Copies of all reports required by the FESOP.

Records of required monitoring information include the following, where applicable:

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(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.16 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.17 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

Emission Unit 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 1,200 tons/hr, equipped with quick-closing bi-fold doors.

(2) One (1) rail pit, identified as R-1, with a maximum throughput rate of 1400 tons/hr.

(3) One (1) public truck/rail pit, identified as PORT, with a maximum throughput rate of 220 tons/hr.

(b) One (1) grain handling operation, constructed after 1984, controlled by baghouse BH1, and consisting of the following:

(1) Two (2) receiving pit conveyors, identified as M-2 and M-3, each with a maximum capacity of 600 tons/hr, constructed in 2008.

(2) 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.

(3) Two (2) reclaim drag conveyors, identified as M-7 and M-8, constructed in 2006, each with a maximum capacity of 700 tons/hr.

(4) One (1) barge shipping belt conveyor, identified as M-9, with a maximum capacity of 1,400 tons/hr, constructed in 2010.

(5) One (1) grain leg, identified as M-13, with a maximum capacity of 290 tons/hr constructed in 2013.

(6) One (1) enclosed conveyor, identified as M-15, with a maximum capacity of 290 tons/hr, constructed in 2013.

(7) One (1) grain leg, identified as M-16, with a maximum capacity of 290 tons/hr, constructed in 2013.

(8) One (1) enclosed conveyor, identified as M-17, with a maximum capacity of 290 tons/hr, constructed in 2013.

(9) One (1) bin 14 reclaim belt conveyor, identified as 14-R, with a maximum capacity of 1,080 tons/hr. constructed in 2014.

(10) One (1) bin 14 transfer belt conveyor, identified as 14-T, with a maximum capacity of 1,080 tons/hr, constructed in 2011.

(11) One (1) bin 14 fill belt conveyor, identified as 14-F, with a maximum capacity of 840 tons/hr, constructed in 1997.

(12) One (1) enclosed belt fill conveyor, identified as #15F, approved for construction in 2008, with a maximum capacity of 28,000 bushels per hour (840 tons per hour), controlled by baghouse BH1.

(13) One (1) enclosed drag reclaim conveyor, identified as #15R, approved for construction

in 2008, with a maximum capacity of 28,000 bushels per hour (840 tons per hour), controlled by baghouse BH1.

(14) One (1) enclosed belt fill conveyor, identified as 16F, approved for construction in 2011, with a maximum capacity of 40,000 bushels (1,200 tons) per hour.

(15) One (1) enclosed belt conveyor, identified as 16R, approved for construction in 2011, with a maximum capacity of 36,000 bushels (1,080 tons) per hour.

(16) One (1) enclosed belt conveyor, identified as 17R, with a maximum throughput of 10,000 bushels per hour, approved in 2016 for construction, with no control.

[Under NSPS, Subpart DD, this unit is considered to be an affected facility]

(17) One (1) enclosed belt conveyor, identified as 18R, with a maximum throughput of 10,000 bushels per hour, approved in 2016 for construction, with no control.

[Under NSPS, Subpart DD, this unit is considered to be an affected facility]

(18) One (1) enclosed belt conveyor, identified as 19R, with a maximum throughput of 10,000 bushels per hour, approved in 2016 for construction, with no control.

[Under NSPS, Subpart DD, this unit is considered to be an affected facility]

(19) Three (3) grain legs, identified as M-17, M18 and M-19, with a maximum throughput of 10,000 bushels per hour approved in 2016 for construction, with no control.

[Under NSPS, Subpart DD, this unit is considered to be an affected facility]

(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) Nineteen (19) grain storage bins, consisting of the following:

(1) Eight (8) storage bins, identified as #1, #2, #4, #5, #9, #10, #12, and #13, constructed after 1984, each with a maximum storage capacity of 68,000 bushels (1,900 tons).

(2) One (1) storage bin, identified as #3, constructed after 1984, with a maximum capacity of 17,000 bushels (475 tons).

(3) Two (2) storage bins, identified as #6 and #8, constructed after 1984, each with a maximum storage capacity of 12,500 bushels (350 tons).

(4) One (1) storage bin, identified as #7, constructed after 1984, with a maximum storage capacity of 30,500 bushels (850 tons).

(5) One (1) storage bin, identified as #11, constructed after 1984, with a maximum storage capacity of 17,000 bushels (475tons).

(6) One (1) storage bin, identified as #14, constructed after 1984, with a maximum storage capacity of 650,000 bushels (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 20,000 bushels (600 tons/hr), constructed in 2015.

(9) One (1) steel storage bin, identified as Bin 16, approved for construction in 2011, with a maximum storage capacity of 650,000 bushels (18,200 tons).

(10) Two (2) grain storage bins, identified as Tank 1 and Tank 2, constructed after 1984, each with a maximum storage capacity of 4,200 bushels (120 tons).

(11) One (1) grain storage bin, identified as Bin 19, with a maximum storage capacity of 500,000 bushels, approved in 2016 for construction.

(e) One (1) grain loadout operation, and consisting of the following:

(1) One (1) barge loadout operation for grain, with a maximum capacity of 1400 tons/hr, constructed in 2010.

(2) Six (6) truck loadout operations for grain, constructed after 1984, each with a maximum capacity of 384 tons/hr, constructed in 1984.

(3) One (1) truck/rail loadout operation, with a maximum capacity of 560 tons/hr, constructed in 1984.

(g) One (1) bulk product handling operation, and consisting of the following:

(1) One (1) bulk receiving belt conveyor, identified as F-1, with a maximum capacity of 900 tons/hr, constructed in 1984.

(2) One (1) reversing belt conveyor, identified as F-2, with a maximum capacity of 400 tons/hr, constructed in 1995.

(3) One (1) radial stacker belt conveyor, identified as F-3, with a maximum capacity of 900 tons/hr, constructed in 1995.

(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) CTLC Fertilizer Building Rail Conveyor, identified as F-6, with a maximum capacity of 300 tons/hr, constructed in 2008.

(7) One (1) CGBF Fertilizer Building Truck Loadout Conveyor/Conditioner, identified as F-8, constructed in 2005, with a maximum capacity of 400 tons/hr, constructed in 2005.

(8) One (1) rail receiving drag conveyor, identified as F-9, with a maximum capacity of 300 tons/hr, constructed in 1995.

(9) One (1) rail receiving leg, identified as F-10, with a maximum capacity of 300 tons/hr, constructed in 1995.

(h) One (1) grain unloading operation, approved for construction in 2012, with baghouse BH2 for particulate control, consisting of the following:

(1) One (1) truck pit, identified as ~~,~~truck pit 1~~,~~ 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 FESOP and PSD Minor Limits [326 IAC 2-8-4][326 IAC 2-2]

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 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 Receiving by Truck or Rail	3,200,000
[1]Grain Handling	6,680,000
Storage Silos and Bins	3,340,000
Column Grain Dryer	375,000
Grain Loadout	3,340,000

[1]Based on total number of internal handling steps that grain is handled through the internal handling system.

(b) The following operations shall not exceed the limits listed in the table below for PM and PM10 emissions:

Process Description	PM Limit (lb PM/ton of product)	PM10 limit (lb PM10/ton of product)
Grain Receiving	0.0045	0.0015
Grain Handling	0.0009	0.0005
Storage Silos and Bins	0.025	0.0063
Column Grain Dryer	0.220	0.055
Grain Loadout	0.043	0.015

Compliance with the above limits, in conjunction with the potential to emit PM from other emission units at the source, shall limit the PM emissions from the entire source to less than 250 tons/year and PM10 to less than 100 tons/year and shall render 326 IAC 2-2 (PSD) and 326 IAC 2-7 (Part 70) not applicable to the source.

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.

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(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(d)(2) (formerly 326 IAC 6-1-2(d)(2)), 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.

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Compliance Determination Requirements [326 IAC 2-8-4(1)]

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) The baffles for particulate control, associated with the Grain Receiving Pits shall be in place and in good operating condition at all times that grain is dumped into the receiving pits.

(c) The sock or sleeve for particulate control, associated with the Truck and Rail Loadout- shall be in place and in good operating condition at all times when grain is loaded out via trucks or rails.

(d) The telescoping spout for particulate control, associated with the Barge Loadout shall be in good operating condition at all times and shall be extended up to the barge tank lid when loading grain to barges.

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

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

D.1.5 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 the 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.1.6 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).

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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.1.7 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 processed in the grain dryer.

(2) The amount of grain received by truck or rail.

(3) The amount of grain handled through the internal handling system.

(4) The amount of grain loaded out.

(5) The amount of grain stored into silos and bins.

(b) To document the a compliance status with Condition D.1.4, the Permittee shall maintain a log of weekly inspections of the dump pits baffles panels, truck loadout sock/sleeve and barge loadout telescoping spout.

(c) To document the compliance status with Condition D.1.5, 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.1.8 Reporting Requirements

A quarterly summary of the information to document the compliance status with Condition D.1.1(a) 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).

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SECTION D.2 EMISSION UNIT OPERATION CONDITIONS

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

(f) One (1) truck/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.

(g) One (1) bulk product handling operation, and consisting of the following:

(1) One (1) bulk receiving belt conveyor, identified as F-1, with a maximum capacity of 900 tons/hr, constructed in 1984.

(2) One (1) reversing belt conveyor, identified as F-2, with a maximum capacity of 400 tons/hr, constructed in 1995.

(3) One (1) radial stacker belt conveyor, identified as F-3, with a maximum capacity of 900 tons/hr, constructed in 1995.

(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) CTLC Fertilizer Building Rail Conveyor, identified as F-6, with a maximum capacity of 300 tons/hr, constructed in 2008.

(7) One (1) CGBF Fertilizer Building Truck Loadout Conveyor/Conditioner, identified as F-8, constructed in 2005, with a maximum capacity of 400 tons/hr, constructed in 2005.

(8) One (1) rail receiving drag conveyor, identified as F-9, with a maximum capacity of 300 tons/hr, constructed in 1995.

(9) One (1) rail receiving leg, identified as F-10, with a maximum capacity of 300 tons/hr, constructed in 1995.

(10) Two (2) hoppers for unloading barges and loading of trucks and railcars, each with a maximum capacity of 400 tons/hr, constructed in 1985.

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. [326 IAC 6-4][326 IAC 6-5];

(b) Other emission units, not regulated by a NESHAP, with PM10, NOx, and SO_2 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) One (1) salt storage pile, constructed in 1984, with a maximum capacity of 90,000 tons; and

(2) One (1) salt loading operation using front end loaders, with a maximum capacity of 200 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.2.1 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:

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(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.

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(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.

SECTION E.1 NSPS

Emission Unit Description:

(b) One (1) grain handling operation, constructed after 1984, controlled by baghouse BH1, and consisting of the following:

(16) One (1) enclosed belt conveyor, identified as 17R, with a maximum throughput of 10,000 bushels per hour, approved in 2016 for construction, with no control.

[Under NSPS, Subpart DD, this unit is considered to be an affected facility]

(17) One (1) enclosed belt conveyor, identified as 18R, with a maximum throughput of 10,000 bushels per hour, approved in 2016 for construction, with no control.

[Under NSPS, Subpart DD, this unit is considered to be an affected facility]

(18) One (1) enclosed belt conveyor, identified as 19R, with a maximum throughput of 10,000 bushels per hour, approved in 2016 for construction, with no control.

[Under NSPS, Subpart DD, this unit is considered to be an affected facility]

(19) Three (3) grain legs, identified as M-17, M18 and M-19, with a maximum throughput of 10,000 bushels per hour approved in 2016 for construction, with no control.

[Under NSPS, Subpart DD, this unit is considered to be an affected facility]

(d) Nineteen (19) grain storage bins, consisting of the following:

(11) One (1) grain storage bin, identified as Bin 19, with a maximum storage capacity of 500,000 bushels, approved in 2016 for construction.

[Under NSPS, Subpart DD, this unit is considered to be an affected facility]

Note: The grain storage bins consists of 19 bins but only one of bins, identified as Bin 19 is subject to the requirements of 40 CFR 60, Subpart DD.

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

New Source Performance Standards (NSPS) [326 IAC 2-8-4(1)]

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

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

(b) Pursuant to 40 CFR 60.4, the Permittee shall submit all required notifications and reports to:

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

E.1.2 Grain Elevators NSPS [40 CFR 60, Subpart DD]

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

(1) 40 CFR 60.300
(2) 40 CFR 60.301
(3) 40 CFR 60.302
(4) 40 CFR 60.303

Compliance Determination Requirements [326 IAC 2-8-4(1)]

E.1.3 Testing Requirements

In order to document the compliance status with Condition E.1.2, the Permittee shall perform the testing required under 40 CFR 60, Subpart DD, utilizing methods as approved by the Commissioner, at least once every five (5) years from the date of the most recent valid compliance demonstration. Section C - Performance Testing contains the Permittee's obligation with regard to the performance testing required by this condition.

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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.: F019-35968-00001

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:

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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.: F019-35968-00001

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

□ This is an emergency as defined in 326 IAC 2-7-1(12)
- The Permittee must notify the Office of Air Quality (OAQ), within four (**4**) daytime business hours (1-800-451-6027 or 317-233-0178, ask for Compliance Section); and
- The Permittee must submit notice in writing or by facsimile within two (**2**) working days (Facsimile Number: 317-233-6865), and follow the other requirements of 326 IAC 2-8-12

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:

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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: _____

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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.: F019-35968-00001
Facility: Column Grain Dryer
Parameter: Weight of total grain dried
Limit: Throughput of equal to or less than 375,000 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: _____

DRAFT

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.: F019-35968-00001
Facility: Grain Loadout Operation
Parameter: Weight of total grain loadout
Limit: Throughput of equal to or less than 3,340,000 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: _____

DRAFT

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.: F019-35968-00001
Facility: Grain Receiving by Truck or Rail
Parameter: Weight of total grain received
Limit: Throughput of equal to or less than 3,200,000 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: _____

DRAFT

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.: F019-35968-00001
Facility: Grain Internal Handling Operation
Parameter: Weight of total grain handled through the internal handling system
Limit: Throughput of equal to or less than 6,680,000 tons per twelve (12) consecutive month period with compliance determined at the end of each month.
Note: Based on total number of internal handling steps that grain is handled through the internal handling system.

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:_____

DRAFT

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.: F019-35968-00001
Facility: Storage Silos and Bins
Parameter: Weight of total grain stored
Limit: Throughput of equal to or less than 3,340,000 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: _____

DRAFT

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.: F019-35968-00001

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

This report shall be submitted quarterly based on a calendar year. Proper notice submittal under Section B -Emergency Provisions satisfies the reporting requirements of paragraph (a) of Section C-General Reporting. Any deviation from the requirements of this permit, the date(s) of each deviation, the probable cause of the deviation, and the response steps taken must be reported. A deviation required to be reported pursuant to an applicable requirement that exists independent of the permit, shall be reported according to the schedule stated in the applicable requirement and does not need to be included in this report. Additional pages may be attached if necessary. If no deviations occurred, please specify in the box marked "No deviations occurred this reporting period".

□ NO DEVIATIONS OCCURRED THIS REPORTING PERIOD.

□ THE FOLLOWING DEVIATIONS OCCURRED THIS REPORTING PERIOD

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

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

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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
Updated 11/17/2015

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 square yards 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 original effective date of this plan is 9-30-05.

Title 40: Protection of Environment
PART 60—STANDARDS OF PERFORMANCE FOR NEW STATIONARY SOURCES

Subpart DD—Standards of Performance for Grain Elevators

Source: 43 FR 34347, Aug. 3, 1978, unless otherwise noted.

§60.300 Applicability and designation of affected facility.

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

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

[43 FR 34347, Aug. 3, 1978, as amended at 52 FR 42434, Nov. 5, 1988]

§60.301 Definitions.

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

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

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

(c) *Grain terminal elevator* means any grain elevator which has a permanent storage capacity of more than 88,100 m^3 (ca. 2.5 million U.S. bushels), except those located at animal food manufacturers, pet food manufacturers, cereal manufacturers, breweries, and livestock feedlots.

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

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

(f) *Grain storage elevator* means any grain elevator located at any wheat flour mill, wet corn mill, dry corn mill (human consumption), rice mill, or soybean oil extraction plant which has a permanent grain storage capacity of 35,200 m^3 (ca. 1 million bushels).

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

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

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

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

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

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

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

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

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

[43 FR 34347, Aug. 3, 1978, as amended at 65 FR 61759, Oct. 17, 2000]

§60.302 Standard for particulate matter.

(a) On and after the 60th day of achieving the maximum production rate at which the affected facility will be operated, but no later than 180 days after initial startup, no owner or operator subject to the provisions of this subpart shall cause to be discharged into the atmosphere any gases which exhibit greater than 0 percent opacity from any:

(1) Column dryer with column plate perforation exceeding 2.4 mm diameter (ca. 0.094 inch).

(2) Rack dryer in which exhaust gases pass through a screen filter coarser than 50 mesh.

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

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

(2) Exhibits greater than 0 percent opacity.

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

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

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

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

(4) Any barge or ship loading station which exhibits greater than 20 percent opacity.

(d) The owner or operator of any barge or ship unloading station shall operate as follows:

(1) The unloading leg shall be enclosed from the top (including the receiving hopper) to the center line of the bottom pulley and ventilation to a control device shall be maintained on both sides of the leg and the grain receiving hopper.

(2) The total rate of air ventilated shall be at least 32.1 actual cubic meters per cubic meter of grain handling capacity (ca. 40 ft^3/bu).

(3) Rather than meet the requirements of paragraphs (d)(1) and (2) of this section the owner or operator may use other methods of emission control if it is demonstrated to the Administrator's satisfaction that they would reduce emissions of particulate matter to the same level or less.

§60.303 Test methods and procedures.

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

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

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

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

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

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

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

[54 FR 6674, Feb. 14, 1989]

§60.304 Modifications.

(a) The factor 6.5 shall be used in place of “annual asset guidelines repair allowance percentage,” to determine whether a capital expenditure as defined by §60.2 has been made to an existing facility.

(b) The following physical changes or changes in the method of operation shall not by themselves be considered a modification of any existing facility:

(1) The addition of gravity loadout spouts to existing grain storage or grain transfer bins.

(2) The installation of automatic grain weighing scales.

(3) Replacement of motor and drive units driving existing grain handling equipment.

(4) The installation of permanent storage capacity with no increase in hourly grain handling

Appendix A: Emission Calculations
Emissions Summary

Company Name: Consolidated Grain and Barge Co.
Address: 5130 Port Road, Jeffersonville, IN 47130
SIC: 5153, 4491
FESOP SPR No.: 019-37068-00001
Reviewer: Aida DeGuzman

	Uncontrolled Potential to Emit (PTE) (tons/year)*									
Process Description	PM	PM10	PM2.5	SO2	NOx	VOC	CO	Total HAPs	Worst Single HAP	
Grain Handling and Storing										
**Grain receiving (Rail)*	34.78	8.48	1.41	0.0	0.0	0.0	0.0	0.0	0.0	
*Grain Receiving (Truck)	195.66	64.13	10.87	0.0	0.0	0.0	0.0	0.0	0.0	
Storage (Non-NSPS)	25.43	6.41	1.12	0.0	0.0	0.0	0.0	0.0	0.0	
*MSM-019-36590-00001 - Storage (NSPS)	1.75	0.44	0.08	0.0	0.0	0.0	0.0	0.0	0.0	
Internal Handling (non-NSPS)	124.07	69.16	11.80	0.0	0.0	0.0	0.0	0.0	0.0	
(*MSM-019-36590-00001 - Internal Handling (NSPS)	8.5	4.8	0.8	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	0.59	0.56	Hexane
Grain Drying (Non-NSPS)	25.87	6.47	1.11	0.0	0.0	0.0	0.0	0.0	0.0	
Barge Loadout	17.39	4.35	0.60	0.0	0.0	0.0	0.0	0.0	0.0	
Truck/rail Loadout	93.48	31.52	5.33	0.0	0.0	0.0	0.0	0.0	0.0	
Fugitive Emissions Associated with the Grain Elevator - Paved and Unpaved Roads	41.61	11.41	1.45	0.00	0.0	0.00	0.0	0.00	0.00	0
Grain Elevator Total Uncontrolled PTE	**534.40**	**201.02**	**35.54**	**0.19**	**31.3**	**1.72**	**26.3**	**0.59**	**0.56**	
Bulk Products Handling Operations										
Bulk Products (receiving, handling, storage, shipping)	7.7	3.66	0.55	0.0	0.0	0.0	0.0	0.0	0.0	---
Total PTE (Non-Fugitive + Fugitive Emissions from Grain Elevator)**	**542.1**	**204.7**	**36.1**	**0.19**	**31.3**	**1.72**	**26.3**	**0.59**	**0.56**	**Hexane**
Fugitive Emissions from Bulk Handling Operation										
Bulk Products (receiving, handling, storage, shipping)	8.26	3.91	0.59	0.0	0.0	0.0	0.0	0.0	0.0	---
Salt (receiving, handling, storage, shipping)	1.22	0.58	0.09	0.0	0.0	0.0	0.0	0.0	0.0	---
Salt Storage Piles***	2.75	0.96	0.96	0.0	0.0	0.0	0.0	0.0	0.0	---
Paved and Unpaved Roads	409.44	113.92	29.36	0.0	0.0	0.0	0.0	0.0	0.0	
Total PTE (Fugitive Emissions from Bulk Handling Operation)	**421.7**	**119.4**	**31.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**---**
Total Sourcewide PTE (Non-Fugitive and Fugitive)	**963.8**	**324.0**	**67.1**	**0.19**	**31.3**	**1.72**	**26.3**	**0.59**	**0.56**	**Hexane**
Total Sourcewide PTE (Non-Fugitive and Fugitive) For Part 70 Applicability	**542.1**	**204.7**	**36.1**	**0.19**	**31.3**	**1.72**	**26.3**	**0.59**	**0.56**	
Part 70 Major Threshold Levels	*NA*	*100.0*	*100.0*	*100.00*	*100.0*	*100.00*	*100.0*	*25.00*	*10.00*	

*Prior to MSM 019-36590-00001, the source is an existing minor for PSD and is a FESOP source with PM emissions limited to less than 250 tons/year and less than 100 tons per year for PM10. PM2.5 was not limited since it was well below 100 tons per year. With the MSM 019-36590-00001, the source became subject to 40 CFR Part 60, Subpart DD, and fugitive emissions associated with the grain handling are now counted toward PSD, EO and TV applicabilit which made the source transition from a FESOP source into a Part 70 source. The source became an existing PSD source after the issuance of MSM 019-36590-00001 However, with all the changes made by the Permittee to the PTE calculations, the source still maintains its PSD minor status and still qualifies as a FESOP source

***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
Emissions Summary

Company Name: Consolidated Grain and Barge Co.
Address: 5130 Port Road, Jeffersonville, IN 47130
SIC: 5153, 4491
FESOP SPR No.: 019-37068-00001
Reviewer: Aida DeGuzman

	Limited and Controlled Potential to Emit (PTE) (tons/year)*									
Process Description	PM	PM10	PM2.5	SO2	NOx	VOC	CO	Total HAPs	Worst Single HAP	
**Grain Handling Currently Subject To PSD Limit (D.1.1)*										
Grain Receiving	7.2	2.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0	
Grain Handling (Renewal 35968 Handling Total Prior to MSM 019-36590-00001)	2.9	1.6	0.3	0.0	0.0	0.0	0.0	0.0	0.0	
Grain Drying	41.3	10.3	1.8	0.0	0.0	0.0	0.0	0.0	0.0	---
Grain Loadout	71.8	24.2	4.1	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	0.59	0.56	Hexane
Storage - Silos and Bins	40.00	10.08	1.76	0.0	0.0	0.0	0.0	0.0	0.0	
****Total Limited PTE from Units Limited in D.1.1**	**163.78**	**50.98**	**10.67**	**0.19**	**31.30**	**1.72**	**26.30**	**0.59**	**0.56**	
New Internal Handling in MSM 019-36590-0001	0.13	0.07	0.01	0.0	0.0	0.0	0.0	0.0	0.0	
New Storage Bin in MSM 019-36590-0001	1.75	0.44	0.08	0.0	0.0	0.0	0.0	0.0	0.0	
Fugitive Emissions Associated with the Grain Handling -Paved and Unpaved Roads	26.94	7.15	0.89	0.00	0.0	0.00	0.0	0.00	0.00	
Total Grain Elevator Limited PTE	**192.60**	**58.65**	**11.65**	**0.19**	**31.3**	**1.72**	**26.3**	**0.59**	**0.56**	
Bulk Products Handling Operations										
Bulk Products (receiving, handling, storage, shipping)	7.7	3.66	0.55	0.0	0.0	0.0	0.0	0.0	0.0	---
Total PTE (Non-Fugitive + Fugitive Emissions from Grain Elevator)**	**200.3**	**62.3**	**12.2**	**0.19**	**31.3**	**1.72**	**26.3**	**0.59**	**0.56**	**Hexane**
PSD Major Threshold Levels	*250*	*250*		*250*	*250*	*250*	*250*	--	--	
Emission Offset Major Threshold Level			*100*							

*Prior to MSM 019-36590-00001, the source is an existing minor for PSD and is a FESOP source with PM emissions limited to less than 250 tons/year and less than 100 tons per year for PM10. PM2.5 was not limited since it was well below 100 tons per year. With the MSM 019-36590-00001, the source became subject to 40 CFR Part 60, Subpart DD, and fugitive emissions associated with the grain handling are now counted toward PSD, EO and TV applicability. which made the source transition from a FESOP source into a Part 70 source. The source became an existing PSD source after the issuance of MSM 019-36590-00001. However, with all the changes made by the Permittee to the PTE calculations, the source still maintains its PSD minor status and still qualifies as a FESOP source.

***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.

Maximum Permanent Storage Capacity (bushels) for NSPS Subpart DD Applicability

Company Name: Consolidated Grain and Barge Co.
Address: 5130 Port Road, Jeffersonville, IN 47130
SIC: 5153, 4491
FESOP SPR No.: 019-37068-00001
Reviewer: Aida DeGuzman

Bulk Density of Grain = 56 lbs/bushel ear (worst case)

	Maximum Throughput Capacity		
	bu/hr	*ton/hr*	
Receiving (Barge)	50,000	1,400	M-18, M-19, & M-20 [A.2(b)(20), A.2(b)(22), & A.2(b)(24)
Receiving (Truck)	76,600	2,145	T-1 & T-2, PORT, & T-3 [A.2(a)(1, 3, 4)]
Receiving (Rail)	50,000	1,400	R-1 [A.2(a)(2)]
Storage (NSPS)	50,000	1,400	M-18, M-19, & M-20 [A.2(b)(20), A.2(b)(22), & A.2(b)(24)

Unit	Date Installed	Last Date Modified	Maximum Permanent Storage Capacity		Grain Stored	Maximum Throughput Capacity			
			bu	*ton*		*bu/hr*	*ton/hr*	*bu/yr*	*ton/yr*
Bin 1	1984		69,200	1,900	ear corn	176,600	4,945	1,547,016,000	43,316,448
Bin 2	1984		69,600	1,900	ear corn				
Bin 3	1984		17,500	500	ear corn				
Bin 4	1984		69,100	1,900	ear corn				
Bin 5	1984		69,600	1,900	ear corn				
Bin 6	1984		12,900	400	ear corn				
Bin 7	1984		31,400	900	ear corn				
Bin 8	1984		12,900	400	ear corn				
Bin 9	1984		69,200	1,900	ear corn				
Bin 10	1984		69,900	2,000	ear corn				
Bin 11	1984		17,500	500	ear corn				
Bin 12	1984		68,800	1,900	ear corn				
Bin 13	1984		69,400	1,900	ear corn				
Bin 14	1984		610,000	17,100	ear corn				
Bin 15	2008		503,700	14,100	ear corn				
Bin 16	2011		604,900	16,900	ear corn				
Bin 17	1984		3,500	100	rye/grain	50,000	1,400	438,000,000	12,264,000
Bin 18	1984		3,500	100	rye/grain				
Bin 19	2016		500,000	14,000	rye/grain				
Total			**2,872,600**	**80,300**		**226,600**	**6,345**	**1,985,016,000**	**55,580,448**

The worst case scenario is processing of corn, so a bulk density of 56 lbs/bushel is assumed. The bulk density for rye is 48 lb/bu.

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

The applicability threshold for 40 CFR 60, Subpart DD is 2,500,000 bushels. The source has planned permanent storage capacity of >2,500,000 bushels; therefore, 40 CFR 60, Subpart DD applies to processes, Bins 17, 18, and 19.

Company Name: Consolidated Grain and Barge Co.
Address: 5130 Port Road, Jeffersonville, IN 47130
SIC: 5153, 4491
FESOP SPR No.: 019-37068-00001
Reviewer: Aida DeGuzman

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/grainfnl.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.

Production Area	2011*	2012*	2013*	2014*	2015*	Maximum 5-Year Production	Maximum 5-Year Production	Potential Throughput*			
	bu	*bu*	*bu*	*bu*	*bu*	*bu/year*	*tons/year*	*(bu/year)*	*(tons/year)*	*(tons/hr)*	*(bu/hr)*
Receiving (Barge/Truck/Rail) (Non-NSPS)	60,535,714	60,535,714	60,535,714	60,535,714	60,535,714	60,535,714	1,695,000	72,642,857	2,034,000	4,945	176,600
Receiving (Barge/Truck/Rail) (NSPS)	5,000,000	5,000,000	5,000,000	5,000,000	5,000,000	5,000,000	140,000	6,000,000	140,000	1,400	50,000
Storage (Non-NSPS)	60,535,714	60,535,714	60,535,714	60,535,714	60,535,714	60,535,714	1,695,000	72,642,857	2,034,000	4,945	176,600
Storage (NSPS)	5,000,000	5,000,000	5,000,000	5,000,000	5,000,000	5,000,000	140,000	6,000,000	140,000	1,400	50,000
Internal Handling** (Non-NSPS)	121,071,429	121,071,429	121,071,429	121,071,429	121,071,429	121,071,429	3,390,000	145,285,714	4,068,000	6,345	176,600
Internal Handling** (NSPS)	10,000,000	10,000,000	10,000,000	10,000,000	10,000,000	10,000,000	280,000	12,000,000	280,000	1,400	50,000
Grain Drying (Non-NSPS)	60,535,714	60,535,714	60,535,714	60,535,714	7,000,000	60,535,714	196,000	72,642,857	235,200	4,945	176,600
Loadout (Barge/Truck/Rail) (Non-NSPS)	60,535,714	60,535,714	60,535,714	60,535,714	60,535,714	60,535,714	1,695,000	72,642,857	2,034,000	4,945	176,600
Loadout (Barge/Truck/Rail) (NSPS)	5,000,000	5,000,000	5,000,000	5,000,000	5,000,000	5,000,000	140,000	6,000,000	140,000	1,400	50,000

* For the purposes of this analysis, the permitted throughput limitations from F019-35968-00001, issued on January 15, 2016, are being used to establish the historical 5-year maximum.
** Internal Handling includes grain cleaning

Safety Factor = 1.2 Factor to define PTE from EPA Guidance.

Company Name: Consolidated Grain and Barge Co.
Address: 5130 Port Road, Jeffersonville, IN 47130
SIC: 5153
Part 70 Operating Permit No.: 019-37068-00001
Reviewer: Aida DeGuzman

2. Unlimited PTE Calculations Total number of internal handling steps = 2

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 Throughput/Controlled PTE (tons/yr)		
		PM	PM10	PM2.5	PM	PM10	PM2.5			PM	PM10	PM2.5
Receiving (Non-NSPS)												
Truck	2,174,000	0.18	0.059	0.010	195.66	64.13	10.87	Baffles and Choke Baghouse	50% 99%	0.98	0.32	0.05
Rail	2,174,000	0.032	0.0078	0.0013	34.78	8.48	1.41	Baffles and Choke Baghouse	50% 99%	0.17	0.04	0.01
Storage (Non-NSPS)	2,034,000	0.025	0.0063	0.0011	25.43	6.41	1.12	None	0%	25.43	6.41	1.12
*MSM-019-36590-00001 - Storage (NSPS)	140,000	0.025	0.0063	0.0011	1.75	0.44	0.08	None	0%	1.75	0.44	0.08
Internal Handling (non-NSPS)	4,068,000	0.061	0.034	0.006	124.07	69.16	11.80	Enclosed System Baghouse	70% 99%	0.37	0.21	0.04
(*MSM-019-36590-00001 - Internal Handling (NSPS)	280,000	0.061	0.034	0.006	8.54	4.76	0.81	Enclosed System Baghouse	70% 99%	0.03	0.01	0.00
Grain Drying (Non-NSPS)	235,200	0.22	0.055	0.0094	25.87	6.47	1.11	Perforation Plate	0%	25.87	6.47	1.11
Loadout (Non-NSPS)												
Barge	2,174,000	0.016	0.004	0.00055	17.39	4.35	0.60	Telescoping	50%	8.70	2.17	0.30
Truck/Rail	2,174,000	0.086	0.029	0.0049	93.48	31.52	5.33	Sock Sleeves	50%	46.74	15.76	2.10
			TOTAL SOURCE WIDE PTE		**474.80**	**182.89**	**31.11**			**101.16**	**29.62**	**4.50**

The receiving pits are equipped with baffles, which have control efficiency of 21%, pursuant to the background information in AP-42, Chapter 9.9. With the combination of the baffles and choke feed the control efficieny is 50%. Receiving by straight truck produces more particulate emissions than receiving by hopper truck, or railcar . All receiving by truck and rail is controlled by baghouse.

*The storage bins and internal grain handling permitted in MSM 019-36590-00001 are the only units subject to NSPS, Subpart DD. Their permitted capacities can't be relaxed in this TV renewal.

According to the Air Pollution Engineering Manual (Buonicore and Davis, 1992), enclosure of material transfer points can result in particulate emissions reduction of 70% as a conservative estimate.

Emission factors are from AP 42 Table 9.9.1-1 Particulate Emission Factors for Grain Elevators (4/03)
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]

Company Name: Consolidated Grain and Barge Co.
Address: 5130 Port Road, Jeffersonville, IN 47130
SIC: 5153, 4491
FESOP SPR No.: 019-37068-00001
Reviewer: Aida DeGuzman

Emissions Unit Description	Limited Throughput (tons/yr)	Uncontrolled Emission Factor (lbs/ton)			Control Device(s)	Collection and Control Efficiency (%)	Limited & Controlled PTE (tons/yr)			Limited/Controlled Emissions (lbs/ton)		
		PM	PM10	PM2.5			PM	PM10	PM2.5	PM	PM10	PM2.5
Receiving (Non-NSPS)												
		0.18	0.059	0.010	Baffles and Choke	50%	7.20	2.36	0.40	0.0045	0.0015	0.0003
Truck	3,200,000				Baghouse, BH1 and BH2	95%						
		0.032	0.0078	0.0013	Baffles and Choke	50%	1.28	0.31	0.05	0.0008	0.0002	0.0000
Rail	3,200,000				Baghouse, BH1 and BH2	95%						
Storage (Non-NSPS)	3,200,000	0.025	0.0063	0.0011	None	0%	40.00	10.08	1.76	0.025	0.0063	0.0011
*MSM-019-36590-00001 - Storage (NSPS)	140,000	0.025	0.0063	0.0011	None	0%	1.75	0.44	0.08	0.025	0.0063	0.0011
		0.061	0.034	0.006	Enclosed System	70%	2.93	1.63	0.28	0.0009	0.0005	0.0001
Internal Handling (non-NSPS)	6,400,000				Baghouse, BH1	95%						
(*MSM-019-36590-00001 - Internal Handling (NSPS)	280,000	0.061	0.034	0.006	Enclosed System	70%	0.13	0.07	0.01	0.0009	0.0005	0.0001
					Baghouse, BH1	95%						
Grain Drying (Non-NSPS)	375,000	0.22	0.055	0.0094	Perforation Plate	0%	41.25	10.31	1.76	0.22	0.055	0.0094
Loadout (Non-NSPS)												
Barge	3,340,000	0.016	0.004	0.00055	Telescoping	50%	13.36	3.34	0.46	0.008	0.002	0.00028
Truck/Rail	3,340,000	0.086	0.029	0.0049	Sock Sleeves	50%	71.81	24.22	4.09	0.043	0.015	0.00245
TOTAL SOURCE WIDE PTE							**165.07**	**49.11**	**8.38**			

The receiving pits are equipped with baffles, which have control efficiency of 21%, pursuant to the background information in AP-42, Chapter 9.9. With the combination of the baffles and choke feed the control efficiency is 50%. Receiving by straight truck produces more particulate emissions than receiving by hopper truck, or railcar . All receiving by truck and rail is controlled by baghouse.

The adjustment to the existing limits in Condition D.1.1 for grain receiving does not constitute in relaxation under 326 IAC 2-2-8(a)(3) and 40 CFR 52.21 (r)(4) since the total PSD minor limits are well below 250 tons/yr.

*The storage bins and internal grain handling permitted in MSM 019-36590-00001 are the only units subject to NSPS, Subpart DD.

According to the Air Pollution Engineering Manual (Buonicore and Davis, 1992), enclosure of material transfer points can result in particulate emissions reduction of 70% as a conservative estimate.

Emission factors are from AP 42 Table 9.9.1-1 Particulate Emission Factors for Grain Elevators (4/03)
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: Emissions Calculations
Natural Gas Combustion Only
MM BTU/HR <100

Company Name: Consolidated Grain and Barge Co.
Address: 5130 Port Road, Jeffersonville, IN 47130
SIC: 5153, 4491
FESOP SPR No.: 019-37068-00001
Reviewer: Aida DeGuzman

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

	Pollutant						
	PM*	PM10*	direct PM2.5*	SO2	NOx	VOC	CO
Emission Factor in lb/MMCF	1.9	7.6	7.6	0.6	100	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

	HAPs - Organics				
	Benzene	Dichlorobenzene	Formaldehyde	Hexane	Toluene
Emission Factor in lb/MMcf	2.1E-03	1.2E-03	7.5E-02	1.8E+00	3.4E-03
Potential Emission in tons/yr	6.6E-04	3.8E-04	2.3E-02	0.56	1.1E-03
	HAPs - Metals				
	Lead	Cadmium	Chromium	Manganese	Nickel
Emission Factor in lb/MMcf	5.0E-04	1.1E-03	1.4E-03	3.8E-04	2.1E-03
Potential Emission in tons/yr	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.

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
SIC: 5153, 4491
FESOP SPR No.: 019-37068-00001
Reviewer: Aida DeGuzman

Barge operations are currrently permitted at maximum capacity and include "grain products"; therefore, no increases in emissions will result from receiving or loading rye via barge. The rye/other grains handling is permitted in MSM 019-36590-00001.

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, **grain products**, salt, aggregate (such as levelite), and occasional various bulk products determined by market and freight circumstances (not to include pig iron, pet coke or cement).

Ef = k*(0.0032)*[(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)
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	900	1	2.75	1.30	0.20
Conveyor F-1 to truck/railcar hopper or conveyor F-2	Outdoors	Non-Fugitive	900	1	2.75	1.30	0.20
Conveyor F-2 to conveyor F-3***	Outdoors	Non-Fugitive	900	1	2.75	1.30	0.20
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 (F-6)	Indoors or Covered	Non-Fugitive	300	1	0.06	0.03	0.00
Unloading bulk products from storage pile to conveyor F-6, or conveyor F-8, or conveyor F-11	Indoors or Covered	Non-Fugitive	400	1	0.08	0.04	0.01
Loading of bulk products into truck or railcar	Outdoors	Fugitive	900	1	2.75	1.30	0.20
				Total Non-Fugitive Emissions (tons/yr)	5.82	2.75	0.42
				Total Fugitive Emissions (tons/yr)	5.51	2.61	0.39

Pursuant to 326 IAC 2-2-1(w), "Fugitive emissions" means those emissions that could not reasonably pass through a stack, chimney, vent, or other functionally equivalent opening.

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).

***Conveyor F-2 to conveyor F-3 is limited by the capcaity of conveyors F-2 and F-4. Although the capacity of conveyor F-3 is 900 ton/hr, the before and after conveyors can only accommodate 400 ton/hr. Therefore, this equipment is bottlenecked by the before and after conveyor capacities at 400 ton/hr.

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 Barge Co.
Address: 5130 Port Road, Jeffersonville, IN 47130
SIC: 5153, 4491
FESOP SPR No.: 019-37068-00001
Reviewer: Aida DeGuzman

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 levelite), and occasional various bulk products determined by market and freight circumstances.

Ef = k*(0.0032)*[(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)
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	400	1	0.08	0.04	0.01
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	900	1	2.75	1.30	0.20
				Total Non-Fugitive Emissions (tons/yr)	1.92	0.91	0.14
				Total Fugitive Emissions (tons/yr)	2.75	1.30	0.20

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 Handling and Wind Erosion
Salt Pads A, B, and C

Company Name: Consolidated Grain and Barge Co.
Address: 5130 Port Road, Jeffersonville, IN 47130
SIC: 5153, 4491
FESOP SPR No.: 019-37068-00001
Reviewer: Aida DeGuzman

Material Handling and Storage Piles (AP-42 Section 13.2.4-1)**

The following calculations determine the amount of emissions created by handling and wind erosion of storage stockpiles, based on 8,760 hours of use and USEPA's AP-42 (Pre 1983 Edition), Section 13.2.4-1.

Ef = 1.7*(s/1.5)*(365-p)/235*(f/15)
where Ef = 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	5.00	2.746	0.961
				Totals PTE (Before Control) =	**2.75**	**0.96**
				Dust Control Efficiency =	88.0%	88.0%
				Totals PTE (After Control) =	**0.33**	**0.12**

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 in 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) and includes loading and unloading activities as well as wind erosio
***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
Receiving and Shipping of Salt by Truck
Particulate Emissions

Company Name: Consolidated Grain and Barge Co.
Address: 5130 Port Road, Jeffersonville, IN 47130
SIC: 5153, 4491
FESOP SPR No.: 019-37068-00001
Reviewer: Aida DeGuzman

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*(0.0032)*[(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	Outdoors	Fugitive	200	1	0.61	0.29	0.04
Loading of 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)	**1.22**	**0.58**	**0.09**

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 AP-42 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

Fugitive Dust Emissions - Unpaved Roads

Company Name: Consolidated Grain and Barge Co.
Address: 5130 Port Road, Jeffersonville, IN 47130
SIC: 5153, 4491
FESOP SPR No.: 019-37068-00001
Reviewer: Aida DeGuzman

Potential Grain Throughput =	1,835,000	tons/year
Potential Grain By-Products Throughput =	0	tons/year
	1,835,000	tons/year
Potential Bulkproduct Receiving by Barge and Railcar =	1,200	tons/hour
Potential Bulkproduct Receiving by Barge and Railcar =	10,512,000	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 leaving site empty	axle bulk dry tanker)	14.0	0	14.0	70,577	988,077	700	0.13	9356.8
Offsite bulk product truck leaving site full	Dump truck (16 CY)	14.0	26.0	40.0	404,308	16,172,308	700	0.13	53601.4
Salt truck leaving site full	Dump truck (16 CY)	14.0	26.0	40.0	67,385	2,695,385	700	0.13	8933.6
	Total				**542,269**	**19,855,769**			**71,892**

Average Vehicle Weight Per Trip =	36.6	tons/trip
Average Miles Per Trip =	0.13	miles/trip

DOT Truck Weights	
Full	80,000 lbs
Empty	28,000 lbs

Particulate Emissions

$$E = k(s/12)^a(W/3)^b$$ *(AP-42, Section 13.2.2.2, Equation 1a)*

$$E_{ext} = E[(365 - P)/365]$$ *(AP-42, Section 13.2.2.2, Equation 2)*

E = size-specific emission factor (lb/VMT)
E_{ext} = annual size-specific emission factor extrapolated for natural mitigation (lb/VMT)
k = particle size multipler for particle size range (lb/VMT)
a = empirical constant (unitless)
b = empirical constant (unitless)
s = surface material silt content (%)
W = mean vehicle weight (tons)
P = number of days in a year with at least 0.1 in of precipitation

	Full Load			Empty Load		
Parameter	[c] **PM**	**PM_{10}**	**$PM_{2.5}$**	[c] **PM**	**PM_{10}**	**$PM_{2.5}$**
[d] **k**	4.9	1.5	0.15	4.9	1.5	0.15
[d] **a**	0.7	0.9	0.9	0.7	0.9	0.9
[d] **b**	0.45	0.45	0.45	0.45	0.45	0.45
[e] **s**	8.3	8.3	8.3	8.3	8.3	8.3
W	40.00	40.00	40.00	14.00	14.00	14.00
[f] **P**	125	125	125	125	125	125
E	12.14	3.45	0.35	7.81	2.22	0.22
E_{ext}	7.98	2.27	0.23	5.14	1.46	0.15

c. Assumed equal to total suspended particulate matter (TSP) per Table AP-42, Table 13.2.2-2 footnote
d. Per AP-42, Table 13.2.2-2 for industrial roads
e. Per AP-42, Table 13.2.2-1 for a stone quarrying and processing haul road
f. Per AP-42, Figure 13.2.2-1

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)
Grain truck leaving site empty	Grain Tanker (5 axle bulk dry tanker)	36.54	10.39	1.04	24.03	6.83	0.68
Offsite bulk product truck leaving site full	Dump truck (16 CY)	325.46	92.55	9.25	214.00	60.85	6.09
Salt truck leaving site full	Dump truck (16 CY)	54.24	15.42	1.54	35.67	10.14	1.01
		416.24	**118.36**	**11.84**	**273.69**	**77.83**	**7.78**

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)

Company Name: Consolidated Grain and Barge Co.
Address: 5130 Port Road, Jeffersonville, IN 47130
SIC: 5153, 4491
FESOP SPR No.: 019-37068-00001
Reviewer: Aida DeGuzman

Limited Grain Throughput =	3,200,000	tons/year
Limited Grain By-Products Throughput =	0	tons/year
	3,200,000	tons/year
Limited Bulkproduct Receiving by Barge and Railcar =	1,200	tons/hour
Limited Bulkproduct Receiving by Barge and Railcar =	10,512,000	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 leaving site empty	Grain Tanker (5 axle bulk dry tanker)	14.0	0	14.0	123,077	1,723,077	700	0.13	16317.0
Offsite bulk product truck leaving site full	Dump truck (16 CY)	14.0	26.0	40.0	404,308	16,172,308	700	0.13	53601.4
Salt truck leaving site full	Dump truck (16 CY)	14.0	26.0	40.0	67,385	2,695,385	700	0.13	8933.6
	Total				**594,769**	**20,590,769**			**78,852**

Average Vehicle Weight Per Trip =	34.6	tons/trip
Average Miles Per Trip =	0.13	miles/trip

DOT Truck Weights

Full	80,000	lbs
Empty	28,000	lbs

Particulate Emissions

$$E = k(s/12)^a(W/3)^b$$ *(AP-42, Section 13.2.2.2, Equation 1a)*

$$E_{ext} = E[(365 - P)/365]$$ *(AP-42, Section 13.2.2.2, Equation 2)*

E = size-specific emission factor (lb/VMT)
E_{ext} = annual size-specific emission factor extrapolated for natural mitigation (lb/VMT)
k = particle size multipler for particle size range (lb/VMT)
a = empirical constant (unitless)
b = empirical constant (unitless)
s = surface material silt content (%)
W = mean vehicle weight (tons)
P = number of days in a year with at least 0.1 in of precipitation

	Full Load			Empty Load		
Parameter	[c] **PM**	**PM_{10}**	**$PM_{2.5}$**	[c] **PM**	**PM_{10}**	**$PM_{2.5}$**
[d] **k**	4.9	1.5	0.15	4.9	1.5	0.15
[d] **a**	0.7	0.9	0.9	0.7	0.9	0.9
[d] **b**	0.45	0.45	0.45	0.45	0.45	0.45
[e] **s**	8.3	8.3	8.3	8.3	8.3	8.3
W	40.00	40.00	40.00	14.00	14.00	14.00
[f] **P**	125	125	125	125	125	125
E	12.14	3.45	0.35	7.81	2.22	0.22
E_{ext}	7.98	2.27	0.23	5.14	1.46	0.15
Dust Control Efficiency	50%	50%	50%	50%	50%	50%

c. Assumed equal to total suspended particulate matter (TSP) per Table AP-42, Table 13.2.2-2 footnote
d. Per AP-42, Table 13.2.2-2 for industrial roads
e. Per AP-42, Table 13.2.2-1 for a stone quarrying and processing haul road
f. Per AP-42, Figure 13.2.2-1

Dust control efficiency of 50% is based on control measures outlined in fugitive dust control plan (FDCP), and WRAP (Western Regional Air Partnership)

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)	Mitigated/ Controlled PTE of PM (tons/yr)	Mitigated/ Controlled PTE of PM10 (tons/yr)	Mitigated/ Controlled PTE of PM2.5 (tons/yr)
Grain truck leaving site empty	Grain Tanker (5 axle bulk dry tanker)	63.72	18.12	1.81	41.90	11.91	1.19	20.95	5.96	0.60
Offsite bulk product truck leaving site full	Dump truck (16 CY)	325.46	92.55	9.25	214.00	60.85	6.09	107.00	30.43	3.04
Salt truck leaving site full	Dump truck (16 CY)	54.24	15.42	1.54	35.67	10.14	1.01	17.83	5.07	0.51
		443.42	**126.09**	**12.61**	**291.56**	**82.91**	**8.29**	**145.78**	**41.45**	**4.15**

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)

Fugitive Dust Emissions - Paved Roads

Company Name: Consolidated Grain and Barge Co.
Address: 5130 Port Road, Jeffersonville, IN 47130
SIC: 5153, 4491
FESOP SPR No.: 019-37068-00001
Reviewer: Aida DeGuzman

Potential Grain Throughput =	1,835,000	tons/year
Potential Grain By-Products Throughput =	0	tons/year
	1,835,000	tons/year
Potential Bulkproduct Receiving by Barge and Railcar =	1,200	tons/hour
Potential Bulkproduct Receiving by Barge and Railcar =	10,512,000	tons/year
Salt Throughput =	1,752,000	tons/year

Paved 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	14.0	26.0	40.0	70,577	2,823,077	2000	0.38	26733.7
Grain truck leaving site empty	Grain Tanker (5 axle bulk dry	14.0	0	14.0	70,577	988,077	1500	0.28	20050.3
Offsite bulk product truck entering site empty	Dump truck (16 CY)	14.0	0	14.0	404,308	5,660,308	2000	0.38	153146.9
Offsite bulk product truck leaving site full	Dump truck (16 CY)	14.0	26.0	40.0	404,308	16,172,308	1500	0.28	114860.1
Salt truck entering site empty	Dump truck (16 CY)	14.0	0	14.0	67,385	943,385	2000	0.38	25524.5
Salt truck leaving site full	Dump truck (16 CY)	14.0	26.0	40.0	67,385	2,695,385	1500	0.28	19143.4
Onsite utility/maintenance pickup truck (10 one-way trips per day)	Pickup Truck	2.5	0.7	3.2	3,650	11,680	800	0.15	553.0
	Total				**1,088,188**	**29,294,218**			**360,012**

Average Vehicle Weight Per Trip =	26.9	tons/trip
Average Miles Per Trip =	0.33	miles/trip

DOT Truck Weights	
Full	80,000 lbs
Empty	28,000 lbs

Particulate Emissions Factors

$$E = k(sL)^{0.91}(W)^{1.02} \quad \textit{(AP-42, Section 13.2.1, Equation 1)}$$

$$E_{ext} = k(sL)^{0.91}(W)^{1.02}\left(1 - \frac{P}{4N}\right) \quad \textit{(AP-42, Section 13.2.1, Equation 2)}$$

E = particulate emission factor (lb/VMT)
E_{ext} = annual mitigated particulate emissions factor (lb/VMT)
k = particle size multiplier for particle size range (lb/VMT)
sL = road surface silt loading (g/m^2)
W = average weight of the vehicles traveling the road (tons)
P = number of "wet" days with at least 0.1 in of precipitation during the averaging period
N = number of days in the averaging period

Parameter	Full Load			Empty Load			Pick-up Full		
	[c] PM	PM_{10}	$PM_{2.5}$	[c] PM	PM_{10}	$PM_{2.5}$	[c] PM	PM_{10}	$PM_{2.5}$
[d] k	0.011	0.0022	0.00054	0.011	0.0022	0.00054	0.011	0.0022	0.00054
[e] sL	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
W	40.00	40.00	40.00	14.00	14.00	14.00	3.20	3.20	3.20
[f] P	125	125	125	125	125	125	125	125	125
N	365	365	365	365	365	365	365	365	365
E	0.30	0.06	0.01	0.11	0.02	0.01	0.11	0.02	0.01
E_{ext}	0.27	0.05	1.34E-02	0.10	0.02	0.00	0.10	0.02	0.00

c. Assumed equal to PM-30 per AP-42, Table 13.2.1-1, footnote d
d. Per AP-42, Table 13.2.1-1
e. Per AP-42, Table 13.2.1-2 ubiquitous baseline silt loading with low ADT (<500)
f. Per AP-42, Figure 13.2.2-1

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)
Grain truck entering site full	Grain Tanker (5 axle bulk dry	3.98	0.80	0.20	3.64	0.73	0.18
Grain truck leaving site empty	Grain Tanker (5 axle bulk dry	1.10	0.22	0.05	1.00	0.20	0.05
Offsite bulk product truck entering site empty	Dump truck (16 CY)	8.38	1.68	0.41	7.66	1.53	0.38
Offsite bulk product truck leaving site full	Dump truck (16 CY)	17.09	3.42	0.84	15.63	3.13	0.77
Salt truck entering site empty	Dump truck (16 CY)	1.40	0.28	0.07	1.28	0.26	0.06
Salt truck leaving site full	Dump truck (16 CY)	2.85	0.57	0.14	2.60	0.52	0.13
Onsite utility/maintenance pickup truck (10 one-way trips per day)	Pickup Truck	3.03E-02	6.05E-03	1.49E-03	2.77E-02	5.53E-03	1.36E-03
		34.82	**6.96**	**1.71**	**31.84**	**6.37**	**1.56**

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)

Fugitive Dust Emissions - Paved Roads

Company Name: Consolidated Grain and Barge Co.
Address: 5130 Port Road, Jeffersonville, IN 47130
SIC: 5153, 4491
FESOP SPR No.: 019-37068-00001
Reviewer: Aida DeGuzman

Limited Grain Throughput =	3,200,000	tons/year
Limited Grain By-Products Throughput =	0	tons/year
	3,200,000	tons/year
Limited Bulkproduct Receiving by Barge and Railcar =	1,200	tons/hour
Limited Bulkproduct Receiving by Barge and Railcar =	10,512,000	tons/year
Salt Throughput =	1,752,000	tons/year

Paved 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)	14.0	26.0	40.0	123,077	4,923,077	2000	0.38	46620.0
Grain truck leaving site empty	Grain Tanker (5 axle bulk dry tanker)	14.0	0	14.0	123,077	1,723,077	1500	0.28	34965.0
Offsite bulk product truck entering site empty	Dump truck (16 CY)	14.0	0	14.0	404,308	5,660,308	2000	0.38	153146.9
Offsite bulk product truck leaving site full	Dump truck (16 CY)	14.0	26.0	40.0	404,308	16,172,308	1500	0.28	114860.1
Salt truck entering site empty	Dump truck (16 CY)	14.0	0	14.0	67,385	943,385	2000	0.38	25524.5
Salt truck leaving site full	Dump truck (16 CY)	14.0	26.0	40.0	67,385	2,695,385	1500	0.28	19143.4
Onsite utility/maintenance pickup truck (10 one-way trips per day)	Pickup Truck	2.5	0.7	3.2	3,650	11,680	800	0.15	553.0
	Total				**1,193,188**	**32,129,218**			**394,813**

Average Vehicle Weight Per Trip =	26.9	tons/trip
Average Miles Per Trip =	0.33	miles/trip

DOT Truck Weights		
Full	80,000	lbs
Empty	28,000	lbs

Particulate Emissions Factors

$$E = k(sL)^{0.91}(W)^{1.02} \quad \textit{(AP-42, Section 13.2.1, Equation 1)}$$

$$E_{ext} = k(sL)^{0.91}(W)^{1.02}\left(1 - \frac{P}{4N}\right) \quad \textit{(AP-42, Section 13.2.1, Equation 2)}$$

E = particulate emission factor (lb/VMT)
E_{ext} = annual mitigated particulate emissions factor (lb/VMT)
k = particle size multipler for particle size range (lb/VMT)
sL = road surface silt loading (g/m^2)
W = average weight of the vehicles traveling the road (tons)
P = number of "wet" days with at least 0.1 in of precipitation during the averaging period
N = number of days in the averaging period

Parameter	Full Load			Empty Load			Pick-up Full		
	[c] PM	PM_{10}	$PM_{2.5}$	[c] PM	PM_{10}	$PM_{2.5}$	[c] PM	PM_{10}	$PM_{2.5}$
[d] k	0.011	0.0022	0.00054	0.011	0.0022	0.00054	0.011	0.0022	0.00054
[e] sL	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
W	40.00	40.00	40.00	14.00	14.00	14.00	3.20	3.20	3.20
[f] P	125	125	125	125	125	125	125	125	125
N	365	365	365	365	365	365	365	365	365
E	0.30	0.06	0.01	0.11	0.02	0.01	0.11	0.02	0.01
E_{ext}	0.27	0.05	1.34E-02	0.10	0.02	0.00	0.10	0.02	0.00
Dust Control Efficiency	26%	26%	26%	26%	26%	26%	26%	26%	26%

c. Assumed equal to PM-30 per AP-42, Table 13.2.1-1, footnote d
d. Per AP-42, Table 13.2.1-1
e. Per AP-42, Table 13.2.1-2 ubiquitous baseline silt loading with low ADT (<500)
f. Per AP-42, Figure 13.2.2-1

Dust control efficiency of 26% is based on control measures outlined in fugitive dust control plan (FDCP), and WRAP (Western Regional Air Partnership)

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)	Mitigated/ Controlled PTE of PM (tons/yr)	Mitigated/ Controlled PTE of PM10 (tons/yr)	Mitigated/ Controlled PTE of PM2.5 (tons/yr)
Grain truck entering site full	Grain Tanker (5 axle bulk dry tanker)	6.94	1.39	0.34	6.34	1.27	0.31	4.69	0.94	0.23
Grain truck leaving site empty	Grain Tanker (5 axle bulk dry tanker)	1.91	0.38	0.09	1.75	0.35	0.09	1.29	0.26	0.06
Offsite bulk product truck entering site empty	Dump truck (16 CY)	8.38	1.68	0.41	7.66	1.53	0.38	5.67	1.13	0.28
Offsite bulk product truck leaving site full	Dump truck (16 CY)	17.09	3.42	0.84	15.63	3.13	0.77	11.56	2.31	0.57
Salt truck entering site empty	Dump truck (16 CY)	1.40	0.28	0.07	1.28	0.26	0.06	0.94	0.19	0.05
Salt truck leaving site full	Dump truck (16 CY)	2.85	0.57	0.14	2.60	0.52	0.13	1.93	0.39	0.09
Onsite utility/maintenance pickup truck (10 one-way trips per day)	Pickup Truck	3.03E-02	6.05E-03	1.49E-03	2.77E-02	5.53E-03	1.36E-03	2.05E-02	4.09E-03	1.01E-03
		38.59	**7.72**	**1.89**	**35.29**	**7.06**	**1.73**	**26.11**	**5.22**	**1.28**

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)

Indiana Department of Environmental Management
We Protect Hoosiers and Our Environment.
100 N. Senate Avenue • Indianapolis, IN 46204
(800) 451-6027 • (317) 232-8603 • www.idem.IN.gov

Michael R. Pence
Governor

Carol S. Comer
Commissioner

Notice of Public Comment

August 25, 2016
Consolidated Grain and Barge Company
019-37068-00001

Dear Concerned Citizen(s):

You have been identified as someone who could potentially be affected by this proposed air permit. The Indiana Department of Environmental Management, in our ongoing efforts to better communicate with concerned citizens, invites your comment on the draft permit.

Enclosed is a Notice of Public Comment, which has been placed in the Legal Advertising section of your local newspaper. The application and supporting documentation for this proposed permit have been placed at the library indicated in the Notice. These documents more fully describe the project, the applicable air pollution control requirements and how the applicant will comply with these requirements.

If you would like to comment on this draft permit, please contact the person named in the enclosed Public Notice. Thank you for your interest in the Indiana's Air Permitting Program.

Please Note: *If you feel you have received this Notice in error, or would like to be removed from the Air Permits mailing list, please contact Patricia Pear with the Air Permits Administration Section at 1-800-451-6027, ext. 3-6875 or via e-mail at PPEAR@IDEM.IN.GOV. If you have recently moved and this Notice has been forwarded to you, please notify us of your new address and if you wish to remain on the mailing list. Mail that is returned to IDEM by the Post Office with a forwarding address in a different county will be removed from our list unless otherwise requested.*

Enclosure
PN AAA Cover.dot 2/17/2016

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August 25, 2016

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

Re: Public Notice
Consolidated Grain and Barge Company
Permit Level: Significant Permit Revision
Permit Number: 019-37068-00001

Dear Mr. Long:

Enclosed is a copy of your draft Significant Permit Revision, Technical Support Document, emission calculations, and the Public Notice which will be printed in your local newspaper.

The Office of Air Quality (OAQ) has prepared two versions of the Public Notice Document. The abbreviated version will be published in the newspaper, and the more detailed version will be made available on the IDEM's website and provided to interested parties. Both versions are included for your reference. The OAQ has requested that the Evening News in Jeffersonville, Indiana publish the abbreviated version of the public notice no later than August 29, 2016. You will not be responsible for collecting any comments, nor are you responsible for having the notice published in the newspaper.

OAQ has submitted the draft permit package to the Jeffersonville Township Public Library – Clarksville Branch, 1312 Eastern Boulevard in Clarksville, Indiana. As a reminder, you are obligated by 326 IAC 2-1.1-6(c) to place a copy of the complete permit application at this library no later than ten (10) days after submittal of the application or additional information to our department. We highly recommend that even if you have already placed these materials at the library, that you confirm with the library that these materials are available for review and request that the library keep the materials available for review during the entire permitting process.

Please review the enclosed documents carefully. This is your opportunity to comment on the draft permit and notify the OAQ of any corrections that are needed before the final decision. Questions or comments about the enclosed documents should be directed to Aida DeGuzman, Indiana Department of Environmental Management, Office of Air Quality, 100 N. Senate Avenue, Indianapolis, Indiana, 46204 or call (800) 451-6027, and ask for extension 3-4972 or dial (317) 233-4972.

Sincerely,

Greg Hotopp

Greg Hotopp
Permits Branch
Office of Air Quality

Enclosures
PN Applicant Cover letter 2/17/2016

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August 25, 2016

To: Jeffersonville Township Public Library – Clarksville Branch

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

Subject: **Important Information to Display Regarding a Public Notice for an Air Permit**

Applicant Name: Consolidated Grain and Barge Company
Permit Number: 019-37068-00001

Enclosed is a copy of important information to make available to the public. This proposed project is regarding a source that may have the potential to significantly impact air quality. Librarians are encouraged to educate the public to make them aware of the availability of this information. The following information is enclosed for public reference at your library:

- Notice of a 30-day Period for Public Comment
- Request to publish the Notice of 30-day Period for Public Comment
- Draft Permit and Technical Support Document

You will not be responsible for collecting any comments from the citizens. Please refer all questions and request for the copies of any pertinent information to the person named below.

Members of your community could be very concerned in how these projects might affect them and their families. **Please make this information readily available until you receive a copy of the final package.**

If you have any questions concerning this public review process, please contact Joanne Smiddie-Brush, OAQ Permits Administration Section at 1-800-451-6027, extension 3-0185. Questions pertaining to the permit itself should be directed to the contact listed on the notice.

Enclosures
PN Library.dot 2/16/2016

Indiana Department of Environmental Management
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Carol S. Comer
Commissioner

ATTENTION: PUBLIC NOTICES, LEGAL ADVERTISING

August 25, 2016

Evening News
221 Spring Street
Jeffersonville, IN 47130

Enclosed, please find one Indiana Department of Environmental Management Notice of Public Comment for Consolidated Grain and Barge Co., Clark County, Indiana.

Since our agency must comply with requirements which call for a Notice of Public Comment, we request that you print this notice one time, no later than August 29, 2016.

Please send a notarized form, clippings showing the date of publication, and the billing to the Indiana Department of Environmental Management, Accounting, Room N1345, 100 North Senate Avenue, Indianapolis, Indiana, 46204.

To ensure proper payment, please reference account # 100174737.

We are required by the Auditor's Office to request that you place the Federal ID Number on all claims. If you have any conflicts, questions, or problems with the publishing of this notice or if you do not receive complete public notice information for this notice, please call Greg Hotopp at 800-451-6027 and ask for extension 4-3493 or dial 317-234-3493.

Sincerely,

Greg Hotopp

Greg Hotopp
Permit Branch
Office of Air Quality

Permit Level: Significant Permit Revision
Permit Number: 019-37068-00001

Enclosure

PN Newspaper.dot 2/17/2016

Mail Code 61-53

IDEM Staff	GHOTOPP 8/25/2016 Consolidated Grain and Barge Company 019-37068-00001 Draft		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)									
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		Jeffersonville City Council and Mayors Office 500 Quarter Master Jeffersonville IN 47130 *(Local Official)*									
6		Clark County Board of Commissioners 501 E. Court Avenue Jeffersonville IN 47130 *(Local Official)*									
7		Clark County Health Department 1320 Duncan Avenue Jeffersonville IN 47130-3723 *(Health Department)*									
8		Utica Town Council and Town Manager 217 North 4th Street Jeffersonville IN 47130 *(Local Official)*									
9		Jeffersonville Township Public Library-Clarksville 1312 Eastern Blvd. Clarksville IN 47129 *(Library)*									
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Total number of pieces Listed by Sender	Total number of Pieces Received at Post Office	Postmaster, Per (Name of Receiving employee)	
9			The full declaration of value is required on all domestic and international registered mail. The maximum indemnity payable for the reconstruction of nonnegotiable documents under Express Mail document reconstructing insurance is $50,000 per piece subject to a limit of $50, 000 per occurrence. The maximum indemnity payable on Express mil merchandise insurance is $500. The maximum indemnity payable is $25,000 for registered mail, sent with optional postal insurance. See ***Domestic Mail Manual*** **R900, S913**, and **S921** for limitations of coverage on inured and COD mail. See ***International Mail Manual*** for limitations o coverage on international mail. Special handling charges apply only to Standard Mail (A) and Standard Mail (B) parcels.

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