



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

We Protect Hoosiers and Our Environment.

Mitchell E. Daniels Jr.
Governor

Thomas W. Easterly
Commissioner

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

TO: Interested Parties / Applicant

DATE: May 21, 2008

RE: Central States Enterprises, Inc. / 009-26334-00009

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

Notice of Decision: Approval - Registration

Please be advised that on behalf of the Commissioner of the Department of Environmental Management, I have issued a decision regarding the enclosed matter. Pursuant to IC 4-21.5-3-4(d) this order is effective when it is served. When served by U.S. mail, the order is effective three (3) calendar days from the mailing of this notice pursuant to IC 4-21.5-3-2(e).

If you wish to challenge this decision, IC 4-21.5-3-7 requires that you file a petition for administrative review. This petition may include a request for stay of effectiveness and must be submitted to the Office of Environmental Adjudication, 100 North Senate Avenue, Government Center North, Suite N 501E, Indianapolis, IN 46204, **within eighteen (18) calendar days of the mailing of this notice**. The filing of a petition for administrative review is complete on the earliest of the following dates that apply to the filing:

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

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

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

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

Enclosures
FN-REGIS.dot 1/2/08



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REGISTRATION OFFICE OF AIR QUALITY

**Central States Enterprises, Inc./Montpelier Ag Advantage
240 West Windsor Street
Montpelier, IN 47359**

Pursuant to 326 IAC 2-5.1 (Construction of New Sources: Registrations) and 326 IAC 2-5.5 (Registrations), (herein known as the Registrant) is hereby authorized to construct and operate subject to the conditions contained herein, the source described in Section A (Source Summary) of this registration.

Registration No. 009-26334-00009	
Issued by: Original signed by Alfred C. Dumauval, Ph. D., Section Chief Permits Branch Office of Air Quality	Issuance Date: May 21, 2008

SECTION A

SOURCE SUMMARY

This registration 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 and A.2 is descriptive information and does not constitute enforceable conditions. However, the Registrant 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 Registrant to obtain additional permits pursuant to 326 IAC 2.

A.1 General Information

The Registrant owns and operates a stationary feed and grain facility.

Source Address:	240 West Windsor Street, Montpelier, IN 47359
Mailing Address:	P.O. Box 323, New Haven, IN 46774
General Source Phone Number:	765-728-9130
SIC Code:	5153, 2041
County Location:	Blackford County
Source Location Status:	Attainment for all criteria pollutants
Source Status:	Registration

A.2 Source Definition

This feed and grain company consists of two (2) plants:

- (a) Plant 1, Central States Enterprises, Inc. (CSE), is located at 240 West Windsor Street, Montpelier, IN; and
- (b) Plant 2, Montpelier Ag Advantage (MAA), is located 240 West Windsor Street, Montpelier, IN.

Since the two (2) plants are located on contiguous or adjacent properties, plant 1 supports plant 2, and under common control of the same entity, they will be considered one (1) source, effective from the date of issuance of this registration.

A.3 Emission Units and Pollution Control Equipment Summary

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

- (a) Two (2) Truck Receiving Docks, identified as TD-1 and TD-2, constructed prior to 1984, with a maximum capacity of 26,800 tons/year (13,400 tons/year for Hopper Trucks and 13,400 tons/year for Straight Trucks);
- (b) One (1) Natural Gas Grain Dryer, identified as Column Dryer, constructed prior to 1984, with a maximum capacity of 26,880 tons/year and 18.40 MMBTU/hour;
- (c) One (1) Elevator Internal Handling, identified as C-1, constructed prior to 1984, with a maximum capacity of 53,760 tons/year;
- (d) Ten (10) Storage Silo/Tank Vents, identified as S1-S7 and T1-T3, where S1-S7 and T1 were constructed prior to 1984 and T2-T3 were constructed in December of 2007, with a total maximum capacity of 53,760 tons/year;
- (e) One (1) Grain and Seed Shipping by truck, identified as Ship-1, constructed prior to 1984, with a maximum capacity of 26,880 tons/year;
- (f) One (1) Feed Mill Receiving, identified as TD-3, constructed prior to 1984, with a maximum capacity of 26,880 tons/year;

- (g) Ten (10) Feed Mill Holding Tank Vents, identified as W1-W10, constructed prior to 1984, with a maximum capacity of 53,760 tons/year;
- (h) One (1) Feed Mill Internal Handling, identified as C-2, constructed prior to 1984, with a maximum capacity of 53,760 tons/year;
- (i) One (1) Feed Mill Hammermill, identified as HM, constructed prior to 1984, with a maximum capacity of 26,880 tons/year;
- (j) One (1) Natural Gas Space Heater, identified as H-1, constructed prior to 1984, with a maximum capacity of 0.08 MMBtu/hour;
- (k) Unpaved Roads; and
- (l) One (1) Feed Shipping by truck, identified as Ship-2, constructed prior to 1984, with a maximum capacity of 26,880 tons/year.

Note: Feed may be shipped using one (1) Feed Mill Manual Bagging operation, identified as Bag, constructed prior to 1984, with a maximum capacity of 28,880 tons/year. However, manual bagging is slower than auguring into a truck, so CSE states that it will be assumed that all feed will be loaded directly from the mill into the trucks.

SECTION B

GENERAL CONDITIONS

B.1 Definitions [326 IAC 2-1.1-1]

Terms in this registration 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 2-1.1-1) shall prevail.

B.2 Effective Date of Registration [IC 13-15-5-3]

Pursuant to IC 13-15-5-3, this registration is effective immediately, unless a petition for stay of effectiveness is filed and granted according to IC 13-15-6-3, and may be revoked or modified in accordance with the provisions of IC 13-15-7-1.

B.3 Registration Revocation [326 IAC 2-1.1-9]

Pursuant to 326 IAC 2-1.1-9 (Revocation), this registration to operate may be revoked for any of the following causes:

- (a) Violation of any conditions of this registration.
- (b) Failure to disclose all the relevant facts, or misrepresentation in obtaining this registration.
- (c) Changes in regulatory requirements that mandate either a temporary or permanent reduction of discharge of contaminants. However, the amendment of appropriate sections of this registration shall not require revocation of this registration.
- (d) For any cause which establishes in the judgment of IDEM, the fact that continuance of this registration is not consistent with purposes of this article.

B.4 Prior Permits Superseded [326 IAC 2-1.1-9.5]

- (a) All terms and conditions of permits established prior to Registration No. 009-26334-00009 and issued pursuant to permitting programs approved into the state implementation plan have been either:
 - (1) incorporated as originally stated,
 - (2) revised, or
 - (3) deleted.
- (b) All previous registrations and permits are superseded by this registration.

B.5 Annual Notification [326 IAC 2-5.1-2(f)(3)] [326 IAC 2-5.5-4(a)(3)]

Pursuant to 326 IAC 2-5.1-2(f)(3) and 326 IAC 2-5.5-4(a)(3):

- (a) An annual notification shall be submitted by an authorized individual to the Office of Air Quality stating whether or not the source is in operation and in compliance with the terms and conditions contained in this registration.
- (b) The annual notice shall be submitted in the format attached no later than March 1 of each year to:

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

- (c) The notification 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.

B.6 Source Modification Requirement [326 IAC 2-5.5-6(a)]

Pursuant to 326 IAC 2-5.5-6(a), an application or notification shall be submitted in accordance with 326 IAC 2 to the Office of Air Quality (OAQ) if the source proposes to construct new emission units, modify existing emission units, or otherwise modify the source.

B.7 Registrations [326 IAC 2-5.1-2(i)]

Pursuant to 326 IAC 2-5.1-2(i), this registration does not limit the source's potential to emit.

SECTION C

SOURCE OPERATION CONDITIONS

Entire Source

Emission Limitations and Standards [326 IAC 2-5.1-2(g)] [326 IAC 2-5.5-4(b)]

C.1 Opacity [326 IAC 5-1]

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

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

C.2 Fugitive Dust Emissions [326 IAC 6-4]

The Registrant 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).

SECTION D.1

OPERATION CONDITIONS

Facility Description [326 IAC 2-5.1-2(f)(2)] [326 IAC 2-5.5-4(a)(2)]:

- (a) Two (2) Truck Receiving Docks, identified as TD-1 and TD-2, constructed prior to 1984, with a maximum capacity of 26,800 tons/year (13,400 tons/year for Hopper Trucks and 13,400 tons/year for Straight Trucks);
- (b) One (1) Natural Gas Grain Dryer, identified as Column Dryer, constructed prior to 1984, with a maximum capacity of 26,880 tons/year and 18.40 MMBTU/hour;
- (c) One (1) Elevator Internal Handling, identified as C-1, constructed prior to 1984, with a maximum capacity of 53,760 tons/year;
- (d) Ten (10) Storage Silo/Tank Vents, identified as S1-S7 and T1-T3, where S1-S7 and T1 were constructed prior to 1984 and T2-T3 were constructed in December of 2007, with a total maximum capacity of 53,760 tons/year;
- (e) One (1) Grain and Seed Shipping by truck, identified as Ship-1, constructed prior to 1984, with a maximum capacity of 26,880 tons/year;
- (f) One (1) Feed Mill Receiving, identified as TD-3, constructed prior to 1984, with a maximum capacity of 26,880 tons/year;
- (g) Ten (10) Feed Mill Holding Tank Vents, identified as W1-W10, constructed prior to 1984, with a maximum capacity of 53,760 tons/year;
- (h) One (1) Feed Mill Internal Handling, identified as C-2, constructed prior to 1984, with a maximum capacity of 53,760 tons/year;
- (i) One (1) Feed Mill Hammermill, identified as HM, constructed prior to 1984, with a maximum capacity of 26,880 tons/year;
- (j) One (1) Natural Gas Space Heater, identified as H-1, constructed prior to 1984, with a maximum capacity of 0.08 MMBtu/hour;
- (k) Unpaved Roads; and
- (l) One (1) Feed Shipping by truck, identified as Ship-2, constructed prior to 1984, with a maximum capacity of 26,880 tons/year.

Note: Feed may be shipped using one (1) Feed Mill Manual Bagging operation, identified as Bag, constructed prior to 1984, with a maximum capacity of 28,880 tons/year. However, manual bagging is slower than auguring into a truck, so CSE states that it will be assumed that all feed will be loaded directly from the mill into the trucks.

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

Emission Limitations and Standards [326 IAC 2-5.1-2(f)(1)] [326 IAC 2-5.5-4(a)(1)]

D.1.1 Particulate Emission Limitations for Manufacturing Processes [326 IAC 6-3

Pursuant to 326 IAC 6-3-2, the particulate matter (PM) from the feed and grain operation shall not exceed the particulate emission limits in pounds per hour as shown in the table below:

Facility	Process Weight		Particulate Emission Limit (pounds/hour)
	(pounds/hour)	(tons/hour)	
Hopper Truck Receiving, TD1 & TD2	80,000	40.0	42.5
Straight Truck Receiving, TD1 & TD2	80,000	40.0	42.5
Column Dryer	51,240	25.6	36.0
Elevator Internal Handling, C-1	131,240	65.6	47.1
Storage Silo/Tank Vents, S1-S7 & T1-T3	171,240	85.6	49.7
Grain/Seed Shipping Truck, Ship-1	120,000	60.0	46.3
Feed Mill Receiving, TD-3	27,000	13.5	23.4
Feed Mill Holding Tank Vents, W1-W10	35,000	17.5	27.9
Feed Mill Internal Handling, C-2	20,000	10.0	19.2
Feed Mill - Hammermill, HM	8,000	4.0	10.4
Feed Mill Shipping, Ship-2 & Manual Bagging	21,000	10.5	19.8
Unpaved Roads (Trucks, Tractor/Wagon, Pickups)	80,640	40.3	42.6

The pound per hour limitation was calculated with the following equation:

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

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

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

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

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

**REGISTRATION
ANNUAL NOTIFICATION**

This form should be used to comply with the notification requirements under 326 IAC 2-5.1-2(f)(3) and 326 IAC 2-5.5-4(a)(3).

Company Name:	Central States Enterprises, Inc./Montpelier Ag Advantage
Address:	240 West Windsor Street
City:	Montpelier, IN 47359
Phone Number:	765-728-9130
Registration No.:	009-26334-00009

I hereby certify that Central States Enterprises, Inc./Montpelier Ag Advantage is :

still in operation.

I hereby certify that Central States Enterprises, Inc./Montpelier Ag Advantage is :

no longer in operation.

in compliance with the requirements of Registration No. 009-26334-00009.

not in compliance with the requirements of Registration No. 009-26334-00009.

Authorized Individual (typed):
Title:
Signature:
Phone Number:
Date:

If there are any conditions or requirements for which the source is not in compliance, provide a narrative description of how the source did or will achieve compliance and the date compliance was, or will be achieved.

Noncompliance:

Indiana Department of Environmental Management Office of Air Quality

Technical Support Document (TSD) for a Registration

Source Description and Location

Source Name:	Central States Enterprises/Montpelier Ag Advantage
Source Location:	240 West Windsor Street, Montpelier, IN 47359
County:	Blackford
SIC Codes:	5153, 2041
Registration No.:	009-26334-00009
Permit Reviewer:	Christine L. Filutze

On March 28, 2008, the Office of Air Quality (OAQ) received an application from Central States Enterprises - Windsor Street Facility/Montpelier Ag Advantage related to the Registration of an entire source that was constructed and operated without a registration (CWOR/OWOR).

Source Definition

This source consists of the following plants:

- (a) Central States Enterprises, Inc. (CSE) is located at 240 West Windsor Street, Montpelier, IN, Plant ID: 009-00009; and
- (b) Montpelier Ag Advantage (MAA) is located at 240 West Windsor Street, Montpelier, IN, Plant ID: 009-00009.

In order to consider both plants as one single source, all three of the following criteria must be met:

- (1) The plants must have common ownership/control;
- (2) The plants must have the same SIC code or one must serve as a support facility to the other; and
- (3) The plants must be located on contiguous or adjacent properties.

These plants are located on contiguous properties, CSE serves as a support facility to MAA, and these plants are under common control. Therefore they will be considered one (1) source, as defined by 326 IAC 2-7-1(22).

Existing Approvals

There have been no previous approvals issued to this source.

County Attainment Status

The source is located in Blackford County.

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

¹Unclassifiable or attainment effective October 18, 2000, for the 1-hour ozone standard which was revoked effective June 15, 2005. Unclassifiable or attainment effective April 5, 2005, for PM_{2.5}.

(a) Ozone Standards

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

(b) PM2.5

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

(c) Other Criteria Pollutants

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

Fugitive Emissions

The fugitive emissions of criteria pollutants and hazardous air pollutants are counted toward the determination of 326 IAC 2-5.1-2 (Registrations) applicability.

Background and Description of Emission Units and Pollution Control Equipment

The Office of Air Quality (OAQ) has reviewed an application, submitted by Central States Enterprises, Inc. on March 28, 2008, relating to Registration for their Feed and Grain facility in Montpelier, Indiana.

Unpermitted Emission Units and Pollution Control Equipment

The source consists of the following unpermitted emission unit(s):

- (a) Two (2) Truck Receiving Docks, identified as TD-1 and TD-2, constructed prior to 1984, with a maximum capacity of 26,800 tons/year (13,400 tons/year for Hopper Trucks and 13,400 tons/year for Straight Trucks);
- (b) One (1) Natural Gas Grain Dryer, identified as Column Dryer, constructed prior to 1984, with a maximum capacity of 26,880 tons/year and 18.40 MMBTU/hour;

- (c) One (1) Elevator Internal Handling, identified as C-1, constructed prior to 1984, with a maximum capacity of 53,760 tons/year;
- (d) Ten (10) Storage Silo/Tank Vents, identified as S1-S7 and T1-T3, where S1-S7 and T1 were constructed prior to 1984 and T2-T3 were constructed in December of 2007, with a total maximum capacity of 53,760 tons/year;
- (e) One (1) Grain and Seed Shipping by truck, identified as Ship-1, constructed prior to 1984, with a maximum capacity of 26,880 tons/year;
- (f) One (1) Feed Mill Receiving, identified as TD-3, constructed prior to 1984, with a maximum capacity of 26,880 tons/year;
- (g) Ten (10) Feed Mill Holding Tank Vents, identified as W1-W10, constructed prior to 1984, with a maximum capacity of 53,760 tons/year;
- (h) One (1) Feed Mill Internal Handling, identified as C-2, constructed prior to 1984, with a maximum capacity of 53,760 tons/year;
- (i) One (1) Feed Mill Hammermill, identified as HM, constructed prior to 1984, with a maximum capacity of 26,880 tons/year;
- (j) One (1) Natural Gas Space Heater, identified as H-1, constructed prior to 1984, with a maximum capacity of 0.08 MMBtu/hour;
- (k) Unpaved Roads; and
- (l) One (1) Feed Shipping by truck, identified as Ship-2, constructed prior to 1984, with a maximum capacity of 26,880 tons/year.

Note: Feed may be shipped using one (1) Feed Mill Manual Bagging operation, identified as Bag, constructed prior to 1984, with a maximum capacity of 28,880 tons/year. However, manual bagging is slower than auguring into a truck, so CSE states that it will be assumed that all feed will be loaded directly from the mill into the trucks.

Enforcement Issues

IDEM is aware that equipment has been constructed and operated prior to receipt of the proper permit. IDEM is reviewing this matter and will take the appropriate action. This proposed approval is intended to satisfy the requirements of the construction permit rules.

Emission Calculations

See Appendix A of this TSD for detailed emission calculations.

Permit Level Determination – Registration
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The following table reflects the unlimited potential to emit (PTE) of the entire source before controls. Control equipment is not considered federally enforceable until it has been required in a federally enforceable permit.

Process/Emission Unit	Potential To Emit of the Entire Source (tons/year)							
	PM	PM10 *	SO ₂	NO _x	VOC	CO	Total HAPs	Worst Single HAP
Grain Receiving Trucks, TD1 & TD2	1.44	0.45	-	-	-	-	-	value or negl. (list HAP)
Column Dryer	2.96	0.74	-	-	-	-	-	-
Internal Handling, C-1	1.64	0.91	-	-	-	-	-	-
Storage Silo/Tank Vents, S1-S7 & T1-T3	0.67	0.17	-	-	-	-	-	-
Grain/Seed Shipping, Ship-1	1.16	0.39	-	-	-	-	-	-
Feed Mill Receiving, TD-3	0.23	0.03	-	-	-	-	-	-
Feed Mill Holding Tank Vents, W1-W10	0.67	0.17	-	-	-	-	-	-
Feed Mill Internal Handling, C-2	1.64	0.91	-	-	-	-	-	-
Feed Mill - Hammermill, HM	3.00	0.65	-	-	-	-	-	-
Feed Mill Shipping, Ship-2	0.04	0.01	-	-	-	-	-	-
Unpaved Roads	4.36	1.11	-	-	-	-	-	-
Natural Gas Combustion (Column Dryer & H-1)	0.62	0.62	0.05	8.09	0.45	6.80	0.15	0.15 (Hexane)
Total PTE of Entire Source	18.44	6.17	0.05	8.09	0.45	6.80	0.15	0.15
Exemptions Levels	5	5	10	10	5 or 10	25	2.5	1.0
Registration Levels	25	25	25	25	25	100	-	-
negl. = negligible * Under the Part 70 Permit program (40 CFR 70), particulate matter with an aerodynamic diameter less than or equal to a nominal 10 micrometers (PM10), not particulate matter (PM), is considered as a "regulated air pollutant". US EPA has directed states to regulate PM10 emissions as surrogate for PM2.5 emissions.								

Criteria Pollutants

- (a) The potential to emit (PTE) (as defined in 326 IAC 2-1.1-1(16)) of PM and PM10 are within the ranges listed in 326 IAC 2-5.1-2(a)(1). The PTE of all other regulated criteria pollutants are less than the ranges listed in 326 IAC 2-5.1-2(a)(1). Therefore, the source is subject to the provisions of 326 IAC 2-5.1-2 (Registrations). A Registration will be issued.

Hazardous Air Pollutants

- (b) The potential to emit (PTE) (as defined in 326 IAC 2-1.1-1(16)) of any single HAP is less than ten (10) tons per year and the PTE of a combination of HAPs is less than twenty-five (25) tons per year. Therefore, this source is an area source under Section 112 of the Clean Air Act (CAA) and not subject to the provisions of 326 IAC 2-7.

Federal Rule Applicability Determination

New Source Performance Standards (NSPS)

- (a) The requirements of the New Source Performance Standard for Grain Elevators, 40 CFR 60, Subpart DD (326 IAC 12), are not included in the permit, because the source has a permanent storage capacity less than 2.5 million U.S. bushels. The maximum storage capacity of the source is 800,000 U.S. bushels per year.
- (b) There are no New Source Performance Standards (NSPS)(40 CFR Part 60) included in the permit.

National Emission Standards for Hazardous Air Pollutants (NESHAP)

- (c) There are no National Emission Standards for Hazardous Air Pollutants (NESHAPs) (326 IAC 14, 326 IAC 20 and 40 CFR Part 63) included in the permit.

Compliance Assurance Monitoring (CAM)

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

State Rule Applicability Determination

The following state rules are applicable to the source:

- (a) 326 IAC 2-5.1-2 (Registrations)
Registration applicability is discussed under the Permit Level Determination – Registration section above.
- (b) 326 IAC 2-4.1 (Major Sources of Hazardous Air Pollutants (HAP))
The potential to emit of any single HAP is less than ten (10) tons per year and the potential to emit of a combination of HAPs is less than twenty-five (25) tons per year. Therefore, this source is an area source under Section 112 of the Clean Air Act (CAA) and not subject to the provisions of 326 IAC 2-4.1.
- (c) 326 IAC 2-6 (Emission Reporting)
Pursuant to 326 IAC 2-6-1, this source is not subject to this rule, because it is not required to have an operating permit under 326 IAC 2-7 (Part 70), it is not located in Lake, Porter, or LaPorte County, and it does not emit lead into the ambient air at levels equal to or greater than 5 tons per year. Therefore, 326 IAC 2-6 does not apply.
- (d) 326 IAC 5-1 (Opacity Limitations)
Pursuant to 326 IAC 5-1-2 (Opacity Limitations), except as provided in 326 IAC 5-1-3 (Temporary Alternative Opacity Limitations), opacity shall meet the following, unless otherwise stated in this permit:
 - (1) Opacity shall not exceed an average of forty percent (40%) in any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.
 - (2) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of fifteen (15) minutes (sixty (60) readings as measured according to 40 CFR 60, Appendix A, Method 9 or fifteen (15) one (1) minute nonoverlapping integrated averages for a

continuous opacity monitor) in a six (6) hour period.

- (e) 326 IAC 6-4 (Fugitive Dust Emissions Limitations)
 Pursuant to 326 IAC 6-4 (Fugitive Dust Emissions Limitations), the source shall not allow fugitive dust to escape beyond the property line or boundaries of the property, right-of-way, or easement on which the source is located, in a manner that would violate 326 IAC 6-4.
- (f) 326 IAC 6-5 (Fugitive Particulate Matter Emission Limitations)
 The source is not subject to the requirements of 326 IAC 6-5, because the source does not have potential fugitive particulate emissions greater than 25 tons per year. Therefore, 326 IAC 6-5 does not apply.
- (g) 326 IAC 8-1-6 (VOC Rules: General Reduction Requirements for New Facilities)
 Each of the emission units at this source is not subject to the requirements of 326 IAC 8-1-6, since the unlimited VOC potential emissions from each emission unit is less than twenty-five (25) tons per year.
- (h) 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes)
 Pursuant to 326 IAC 6-3-2, the particulate matter (PM) from the feed and grain operation shall not exceed the particulate emission limits in pounds per hour as shown in the table below.

Facility	Process Weight		Particulate Emission Limit (pounds/hour)
	(pounds/hour)	(tons/hour)	
Hopper Truck Receiving, TD1 & TD2	80,000	40.0	42.5
Straight Truck Receiving, TD1 & TD2	80,000	40.0	42.5
Column Dryer	51,240	25.6	36.0
Elevator Internal Handling, C-1	131,240	65.6	47.1
Storage Silo/Tank Vents, S1-S7 & T1-T3	171,240	85.6	49.7
Grain/Seed Shipping Truck, Ship-1	120,000	60.0	46.3
Feed Mill Receiving, TD-3	27,000	13.5	23.4
Feed Mill Holding Tank Vents, W1-W10	35,000	17.5	27.9
Feed Mill Internal Handling, C-2	20,000	10.0	19.2
Feed Mill - Hammermill, HM	8,000	4.0	10.4
Feed Mill Shipping, Ship-2 & Manual Bagging	21,000	10.5	19.8
Unpaved Roads (Trucks, Tractor/Wagon, Pickups)	80,640	40.3	42.6

The pound per hour limitation was calculated with the following equation:

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

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

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

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

Based on calculations in TSD Appendix A, control devices are not needed to comply with this limit.

Conclusion and Recommendation

Unless otherwise stated, information used in this review was derived from the application and additional information submitted by the applicant. An application for the purposes of this review was received on March 28, 2008.

The construction and operation of this source shall be subject to the conditions of the attached proposed Registration No. 009-26334-00009. The staff recommends to the Commissioner that this Registration be approved.

IDEM Contact

- (a) Questions regarding this proposed permit can be directed to Christine Filutze at the Indiana Department Environmental Management, Office of Air Quality, Permits Branch, 100 North Senate Avenue, MC 61-53 IGCN 1003, Indianapolis, Indiana 46204-2251 or by telephone at (317) 233-8397 or toll free at 1-800-451-6027 extension 8397.
- (b) A copy of the findings is available on the Internet at: <http://www.in.gov/ai/appfiles/idem-caats/>
- (c) For additional information about air permits and how the public and interested parties can participate, refer to the IDEM's Guide for Citizen Participation and Permit Guide on the Internet at: www.idem.in.gov

**Appendix A: Emission Calculations
Emissions Summary**

Company Name: Central States Enterprises, Inc./Montpelier Ag Advantage
Address: 240 West Windsor Street, Montpelier, IN 47359
Registration: 009-26334-00009
Reviewer: Christine L. Filutze
Date: May 19, 2008

SUMMARY OF POTENTIAL UNCONTROLLED EMISSIONS IN TONS PER YEAR

<u>Source</u>	<u>PM</u>	<u>PM10</u>	<u>PM2.5</u>	<u>SOx</u>	<u>NOx</u>	<u>VOC</u>	<u>CO</u>	<u>Hexane</u>	<u>Lead</u>	<u>Mercury</u>
Truck Receiving, TD1&2	1.44	0.45	0.08							
Column Dryer	2.96	0.74	0.13							
Internal Handling, C-1	1.64	0.91	0.16							
Storage Silo/Tank Vents, S1-7 & T1-3	0.67	0.17	0.03							
Grain/Seed Shipping, Ship-1	1.16	0.39	0.07							
Feed Mill Receiving, TD-3	0.23	0.03	0.01							
Feed Mill Holding Tank Vents, W1-10	0.67	0.17	0.03							
Feed Mill Internal Handling, C-2	1.64	0.91	0.16							
Feed Mill - Hammermill, HM	3.00	0.65	0.11							
Feed Shipping Truck, Ship-2	0.04	0.01	0.00							
Unpaved Road	4.36	1.11	0.11							
Natural Gas Combustion [Column Dryer & Space Heater (H-1)]	0.62	0.62	0.62	0.05	8.09	0.45	6.80	0.15	4.0E-05	2.1E-05
TOTALS	18.44	6.17	1.48	0.05	8.09	0.45	6.80	0.15	4.0E-05	2.1E-05

Total HAPs 0.15

**Appendix A: Emission Calculations
Natural Gas Combustion Emissions**

Company Name: Central States Enterprises, Inc./Montpelier Ag Advantage
Address: 240 West Windsor Street, Montpelier, IN 47359
Registration: 009-26334-00009
Reviewer: Christine L. Filutze
Date: May 19, 2008

Sources:

Column Dryer	18.40 MMBTU/Hr
Office Space Heater (H-1)	0.08 MMBTU/Hr
Total	18.48 MMBTU/Hr

1 MMBTU = 0.001 MMFT³

Therefore Total Nat. Gas Capacity = 0.01848 MMFT³/Hr

EMISSION FACTORS FOR SCC 1-03-006-02 From FIRE 6.25, 9/04.		
SOx:	0.6	Lbs/MMFT ³
NOx:	100.0	Lbs/MMFT ³
VOC:	5.5	Lbs/MMFT ³
CO:	84.0	Lbs/MMFT ³
Hexane	1.8	Lbs/MMFT ³
Lead	5.0E-04	Lbs/MMFT ³
Mercury	2.6E-04	Lbs/MMFT ³
PM	7.6	Lbs/MMFT ³
PM10	7.6	Lbs/MMFT ³
PM2.5	7.6	Lbs/MMFT ³

MMFT³ per year = MMFT³/Hr x 8760 hrs/yr

pot. emissions = (MMFT³/yr) x (emission factor) / 2000 lbs/ton

MMFT³ per year TOTAL = 161.88

Potential Uncontrolled Emissions From Nat. Gas Consumption

SOx:	0.05	tons/yr
NOx:	8.09	tons/yr
VOC:	0.45	tons/yr
CO:	6.80	tons/yr
Hexane	0.15	tons/yr
Lead	4.0E-05	tons/yr
Mercury	2.1E-05	tons/yr
PM	0.62	tons/yr
PM10	0.62	tons/yr
PM2.5	0.62	tons/yr

**Appendix A: Emission Calculations
Grain Storage, Handling and Milling Emissions**

Company Name: Central States Enterprises, Inc./Montpelier Ag Advantage
Address: 240 West Windsor Street, Montpelier, IN 47359
Registration: 009-26334-00009
Reviewer: Christine L. Filutze
Date: May 19, 2008

Emission Factors	PM	PM-10	PM-2.5	Units	SCC	Reference
Hopper Truck Receiving, TD1 & TD2	3.5E-02	7.8E-03	1.3E-03	lbs/ton of grain	3-02-005-52	AP 42 Table 9.9.1 3/03
Straight Truck Receiving, TD1 & TD2	0.18	0.06	0.01	lbs/ton of grain	3-02-005-52	AP 42 Table 9.9.1 3/03
Elevator Internal Handling, C-1	0.06	0.03	5.8E-03	lbs/ton of grain	3-02-005-30	AP 42 Table 9.9.1 3/03
Storage Silo/Tank Vents, S1-7 & T1-3	0.03	6.3E-03	1.1E-03	lbs/ton of grain	3-02-005-40	AP 42 Table 9.9.1 3/03
Grain & Seed Shipping Truck, Ship-1	0.09	0.03	4.9E-03	lbs/ton of grain	3-02-005-60	AP 42 Table 9.9.1 3/03
Column Dryer	0.22	0.06	9.4E-03	lbs/ton of grain	3-02-005-27	AP 42 Table 9.9.1 3/03
Feed Mill Receiving, TD-3	0.02	2.5E-03	4.3E-04	lbs/ton of grain	3-02-008-02	AP 42 Table 9.9.1 3/03
Feed Mill Hammermill, HM	0.22	0.05	8.3E-03	lbs/ton of grain	3-02-008-17	See Note Below
Feed Shipping Truck, Ship-2	3.3E-03	8.0E-04	1.4E-04	lbs/ton of grain	3-02-008-03	AP 42 Table 9.9.1 3/03

Note: Grain Milling-Hammermill factors are without controls and are derived from factors in FIRE 6.25 9/04 for grain mill with single cyclone assuming 70% efficiency for PM removal and 30% efficiency for PM10, per EPA Air Pollution Control Fact Sheet EPA-452/F-03-005.

PM factor = (0.067 bs/ton) / ((100%-70%)/100%)

PM10 factor = (0.034 bs/ton) / ((100%-30%)/100%)

PM2.5 factor for feed mill receiving, hammermill and shipping is 17% of PM10 factor per AP-42.

Throughput Capacities

Facility Capacities	Grain Storage	240,000 bushels	6,720 tons
Max. Throughput	800,000 bushels/year		22,400 tons/year
Grain Drying	2,000 bushels/hr		56 tons/hour
Seed Storage	6,000 bushels		168 tons
Feed Mill/Hammer Mill			4 tons/hour

1 bushel = 56 lbs

The facility intends to store predominantly soybeans plus sufficient corn to supply the feed mill.

Estimated Potential Emissions

	Potential Throughput (tons/year)	PM Emis. Factor (lbs/ton)	PM-10 Emis. Factor (lbs/ton)	PM-2.5 Emis. Factor (lbs/ton)	Potential PM (tons/year)	Potential PM-10 (tons/year)	Potential PM-2.5 (tons/year)
Hopper Truck Receiving, TD1 & TD2	13,440	0.04	7.8E-03	1.3E-03	0.24	0.05	0.01
Straight Truck Receiving, TD1 & TD2	13,440	0.18	0.06	0.010	1.21	0.40	0.07
Column Dryer	26,880	0.22	0.06	9.4E-03	2.96	0.74	0.13
Elevator Internal Handling, C-1	53,760	0.06	0.03	5.8E-03	1.64	0.91	0.16
Storage Silo/Tank Vents, S1-7 & T1-3	53,760	0.03	6.3E-03	1.1E-03	0.67	0.17	0.03
Grain & Seed Shipping Truck, Ship-1	26,880	0.09	0.03	4.9E-03	1.16	0.39	0.07
Feed Mill Receiving, TD-3	26,880	0.02	2.5E-03	4.3E-04	0.23	0.03	0.01
Feed Mill Holding Tank Vents, W1-10	53,760	0.03	6.3E-03	1.1E-03	0.67	0.17	0.03
Feed Mill Internal Handling, C-2	53,760	0.06	0.03	5.8E-03	1.64	0.91	0.16
Feed Mill Hammermill, HM	26,880	0.22	0.05	8.3E-03	3.00	0.65	0.11
Feed Shipping Truck, Ship-2	26,880	3.3E-03	8.0E-04	1.4E-04	0.04	0.01	0.00
Totals	376,320				13.46	4.44	0.76

Potential emissions are based upon the following assumptions:

Potential Throughput = 1.2 x (5yr maximum) (Per J.S. Seitz, US EPA, Memorandum, "Calculating PTE and Other Guidance for Grain Handling Facilities", November 14, 1995.)

Assume 50% grain received by straight truck and 50% received by hopper truck.

Assume 100% grain received was processed in dryer and feed mill.

Grain shipping is from silo gravity side shuts and is limited by the amount of grain that is received.

Feed may be shipped by manually bagging directly from a side shute on the sides of the mix tanks or auguring directly from the mix tanks to a truck. Since manual bagging is a much slower process than auguring into a truck, it is assumed all feed will be loaded directly from the mill into trucks.

Elevator Internal Handling = (truck receiving throughput) + (dryer throughput)

Storage Silo/tank Vent throughput = (truck unloading throughput) + (dryer throughput)

Grain/Seed Shipping Truck = truck receiving throughput

Hammermill/Feed Mill receiving and shipping = feed mill throughput

Feed Mill Internal Handling and Holding Tank Vents = 2 x (feed mill throughput)

Potential Emissions = emission factor (lbs/ton) x unit throughput (tons/yr) / 2000 (lbs/ton)

Appendix A: Emission Calculations
Air Emissions from Unpaved Roads-Potential Emissions

lb = pound
 VMT = vehicle miles traveled

a	b	c	d
Source	Emission Factor	Activity	Potential Emissions
			<small>b x c / 2000</small>
Trucks	(lb/VMT)	(VMT)	(ton/year)
PM	7.27	235.87	0.86
PM10	1.85	235.87	0.22
PM2.5	0.19	235.87	0.02
Tractor/Wagon			
PM	3.32	537.60	0.89
PM10	0.85	537.60	0.23
PM2.5	0.08	537.60	0.02
Pickups			
PM	2.16	2419.20	2.61
PM10	0.55	2419.20	0.67
PM2.5	0.06	2419.20	0.07

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TOTALS		
PM		4.36
PM10		1.11
PM2.5		0.11

Emission Factor Calculations

% road silt is mean value for sand & gravel plant road from AP-42 Table 13.2.2-1 (11/06)

unpaved road - Trucks

from AP-42 13.2.2 (11/06)

k = PM particle size multiplier	4.9
k ₁₀ = PM ₁₀ particle size multiplier	1.5
k _{2.5} = PM2.5 particle size multiplier	0.15
s = silt content of road (%)	4.8
W = mean vehicle weight (ton)	30
V = # vehicle trips / yr	2,621
M = miles of unpaved roads	0.09

Vehicle 1		
100%		% of total trips
20		Empty weight (tons)
40		Full weight (tons)
52,416	tons/year	

Throughput = (grain received) + (feed shipped) - (feed shipped by pickup)

PM emission factor (lb/VMT) = $(k(s / 12)^{0.7} (W / 3)^{0.45}) =$	7.27
PM ₁₀ emission factor (lb/VMT) = $(k(s / 12)^{0.9} (W / 3)^{0.45}) =$	1.85
PM2.5 emission factor (lb/VMT) = $(k(s / 12)^{0.9} (W / 3)^{0.45}) =$	0.19
VMT = V x M	236

unpaved road - Tractor/Wagon

from AP-42 13.2.2 (11/06)

k = PM particle size multiplier	4.9
k ₁₀ = PM ₁₀ particle size multiplier	1.5
k _{2.5} = PM2.5 particle size multiplier	0.15
s = silt content of road (%)	4.8
W = mean vehicle weight (ton)	5.25
V = # vehicle trips / yr	5,973
M = miles of unpaved roads	0.09

Vehicle 1		
100%		% of total trips
3		Empty weight (tons)
7.5		Full weight (tons)
26,880	tons/year	

Throughput = feed mill receiving

PM emission factor (lb/VMT) = $(k(s / 12)^{0.7} (W / 3)^{0.45}) =$	3.32
PM ₁₀ emission factor (lb/VMT) = $(k(s / 12)^{0.9} (W / 3)^{0.45}) =$	0.85
PM2.5 emission factor (lb/VMT) = $(k(s / 12)^{0.9} (W / 3)^{0.45}) =$	0.08
VMT = V x M	538

unpaved road - Pickups

from AP-42 13.2.2 (11/06)

k = PM particle size multiplier	4.9
k ₁₀ = PM ₁₀ particle size multiplier	1.5
k _{2.5} = PM2.5 particle size multiplier	0.15
s = silt content of road (%)	4.8
W = mean vehicle weight (ton)	2.025
V = # vehicle trips / yr	26,880
M = miles of unpaved roads	0.09

Vehicle 1	Vehicle 2	
10%	90%	% of total trips
2	2	Empty weight (tons)
2.5	2	Full weight (tons)
1,344		tons/year

Throughput estimated to be 5% of feed shipped

PM emission factor (lb/VMT) = $(k(s / 12)^{0.7} (W / 3)^{0.45}) =$	2.16
PM ₁₀ emission factor (lb/VMT) = $(k(s / 12)^{0.9} (W / 3)^{0.45}) =$	0.55
PM2.5 emission factor (lb/VMT) = $(k(s / 12)^{0.9} (W / 3)^{0.45}) =$	0.06
VMT = V x M	2419

Appendix A: Emission Calculations

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

Company Name: Central States Enterprises, Inc./Montpelier Ag Advantage
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Per GAI Consultants - The capacity of the facility should be based upon guidance provided in EPA Memorandum "Calculating Potential to Emit (PTE) and Other Guidance for Grain Handling Facilities", dated November 14, 1995. In the Memorandum, the EPA acknowledged that grain elevators' equipment was sized to handle the rapid influx of grain during fall harvest and that grain receipts during the rest of the year were limited. EPA acknowledged that the capacity of a grain elevator was limited by the ability of area farmers to grow grain. EPA recommended the maximum capacity be determined by multiplying the 5 year maximum grain receipts by 1.2. The previous owner reported a maximum receipt of 800,000 bushels during one of the past five years. Therefore, the maximum potential throughput is 1.2 times 800,000 (= 960,000) bushels per year (equivalent to 26,880 tons per year).

Unit ID	Model No.	Serial No.	Description	Maximum Lbs/hour	Maximum Tons/year
S-1 thru S-6			Six grain silos combined throughput	80,000	26,208
S-7			6,000 bushel steel grain silo	51,240	26,880
Dryer	CMS1000	Jul-03	Grain throughput	51,240	26,880
TD-1			Enclosed grain receiving by Truck	80,000	13,440
TD-2			Enclosed grain receiving by Truck	80,000	13,440
C-1			Internal Handling	131,240	53,760
T-1 thru T-3			Three seed tanks combined throughput	40,000	672
Ship-1			Shipping Grain & Seed by Truck	120,000	26,880
TD-3			Feed Mill Receiving	27,000	26,880
W1-10			Feed Mill Ten Grain Holding Tanks combined throughput	35,000	53,760
HM			Feed Mill Hammermill	8,000	26,880
C-2			Feed Mill Internal Handling	20,000	53,760
Ship-2			Feed Mill Shipping by Truck	20,000	26,880
Bag			Feed Mill Manual Bagging	1,000	included in Ship-2
Totals				744,720	376,320

Appendix A: Emission Calculations
326 IAC 6-3-2 Particulate Emission Limitations for Manufacturing Processes

Company Name: Central States Enterprises, Inc./Montpelier Ag Advantage
Address: 240 West Windsor Street, Montpelier, IN 47359
Registration: 009-26334-00009
Reviewer: Christine L. Filutze
Date: May 19, 2008

Throughput Capacities

	P		
	Max Throughput (pounds/hour)	Max Throughput (tons/hour)	E = Particulate Emission Limit (pounds/hour)
Hopper Truck Receiving, TD1 & TD2	80,000	40.0	42.5
Straight Truck Receiving, TD1 & TD2	80,000	40.0	42.5
Column Dryer	51,240	25.6	36.0
Elevator Internal Handling, C-1	131,240	65.6	47.1
Storage Silo/Tank Vents, S1-7 & T1-3	171,240	85.6	49.7
Grain & Seed Shipping Truck, Ship-1	120,000	60.0	46.3
Feed Mill Receiving, TD-3	27,000	13.5	23.4
Feed Mill Holding Tank Vents, W1-10	35,000	17.5	27.9
Feed Mill Internal Handling, C-2	20,000	10.0	19.2
Feed Mill Hammermill, HM	8,000	4.0	10.4
Feed Shipping Truck, Ship-2 & Manual Bagging	21,000	10.5	19.8
Unpaved Roads (Trucks, Tractor/Wagon, Pickups)	80,640	40.3	42.6
Total	825,360		

For process weight rate up to sixty thousand (60,000) pounds per hour, $E = 4.10 P^{0.67}$

where E = rate of emission in pounds per hour
and P = process weight rate in tons per hour

For the process weight rate in excess of sixty thousand (60,000) pounds per hour, $E = 55.0 P^{0.11} - 40$

where E = rate of emission in pounds per hour
and P = process weight rate in tons per hour