



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: November 15, 2012

RE: Farbest Foods, Inc. / 037 - 32300 - 00121

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

Farbest Foods, Inc.
4689 S CR 400 W
Huntingburg, Indiana 47542

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. R037-32300-00121	
Issued by:  Nathan Bell Office of Air Quality	Issuance Date: November 15, 2012

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 turkey deboning and processing site.

Source Address:	4689 S CR 400 W, Huntingburg, IN 47542
General Source Phone Number:	(812) 683-4200
SIC Code:	2015 (Poultry Slaughtering and Processing)
County Location:	Dubois County
Source Location Status:	Attainment for all criteria pollutants
Source Status:	Registration

A.2 Emission Units and Pollution Control Equipment Summary

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

- (a) One (1) turkey slaughtering operation, constructed in 1969, including stunning, evisceration, de-boning and blast freezing.
- (b) Natural gas-fired combustion sources with heat input equal to or less than ten million (10,000,000) Btu per hour, consisting of:
 - (1) Two (2) natural gas-fired boilers, identified as Boiler #1 and Boiler #2, both constructed in 2005, each with a maximum capacity of 7.876 MMBtu/hr, with emissions exhausting to Stacks 28 and 29.
 - (2) Twenty-seven (27) natural gas-fired heaters, each with a maximum capacity less than 5 MMBtu/hr, and with a total maximum capacity of 15.75 MMBtu/hr.
 - (3) Four (4) natural gas-fired dryers, identified as Evis Laundry constructed in 2006, Hanger Laundry constructed in 2006, and Boning Laundry #1 and Boning Laundry #2 both constructed in 2002, each with a maximum capacity of 0.165 MMBtu/hr.
 - (4) Five (5) natural gas-fired water heaters, identified as Evis constructed in 2006, Quickwater constructed in 2003, Armstrong constructed in 2008, and Boning #1 and #2 constructed in 2003, with maximum capacities of 0.2 MMBtu/hr, 5.0 MMBtu/hr, 15.0 MMBtu/hr, and both 0.08 MMBtu/hr respectively.
- (c) Four (4) carbon dioxide tanks, identified as Stun Carbon Dioxide Tank, West Carbon Dioxide Tank, East Carbon Dioxide Tank, and North Carbon Dioxide Tank, constructed prior to 1998 and used during turkey product processing.
- (d) Two (2) wastewater lagoons, for wastewater from the turkey product processing facility.
- (e) Three (3) anhydrous ammonia tanks, identified as Ammonia #1, Ammonia #2, and Ammonia #3, constructed prior to 1998 and used during turkey product processing.

- (f) Welding operations as follows:
 - (1) One (1) MIG welder
 - (2) One (1) stick welder
 - (3) Two (2) TIG welders
 - (4) Two (2) oxyacetylene flame-cutting operations.
 - (5) Two (2) Plasma cutters

- (g) Diesel fuel transfer and dispensing operation, constructed prior to 1998, consisting of:
 - (1) One (1) diesel tank, identified as Diesel 1 (on-road) has a capacity of 564 gallons and an annual throughput of 6,024 gallons.
 - (2) One (1) diesel tank, identified as Diesel 2 (off-road) has a capacity of 564 gallons and an annual throughput of 13,272 gallons.

- (h) One (1) kerosene tank, constructed prior to 1998, with a capacity of 564 gallons and an annual throughput of 396 gallons.

- (i) Maintenance and repair operations, utilizing aerosols and flow coat methods to deliver coatings, sealers, adhesives, and non-degreasing cleaning solvents to the applicators, equipped with an aerosol can recycling system.

- (j) Paved roads

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. R037-32300-00121 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 and Enforcement 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.

B.8 Preventive Maintenance Plan [326 IAC 1-6-3]

- (a) If required by specific condition(s) in Section D of this registration, the Registrant shall prepare and maintain Preventive Maintenance Plans (PMPs) no later than ninety (90) days after issuance of this registration 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 Registrant's control, the PMPs cannot be prepared and maintained within the above time frame, the Registrant may extend the date an additional ninety (90) days provided the Registrant 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 Registrant shall implement the PMPs.

- (b) A copy of the PMPs shall be submitted to IDEM, OAQ upon request and within a reasonable time, and shall be subject to review and approval by IDEM, OAQ. IDEM, OAQ may require the Registrant to revise its PMPs whenever lack of proper maintenance causes or is the primary contributor to an exceedance of any limitation on emissions.
- (c) To the extent the Registrant is required by 40 CFR Part 60 or 40 CFR Part 63 to have an Operation Maintenance, and Monitoring (OMM) Plan for a unit, such OMM Plan is deemed to satisfy the PMP requirements of 326 IAC 1-6-3 for that unit.

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)]:

- (b) Natural gas-fired combustion sources with heat input equal to or less than ten million (10,000,000) Btu per hour, consisting of:
 - (1) Two (2) natural gas-fired boilers, identified as Boiler #1 and Boiler #2, both constructed in 2005, each with a maximum capacity of 7.876 MMBtu/hr, with emissions exhausting to Stacks 28 and 29.
 - (3) Four (4) natural gas-fired dryers, identified as Evis Laundry constructed in 2006, Hanger Laundry constructed in 2006, and Boning Laundry #1 and Boning Laundry #2 both constructed in 2002, each with a maximum capacity of 0.165 MMBtu/hr.
 - (4) Five (5) natural gas-fired water heaters, identified as Evis constructed in 2006, Quickwater constructed in 2003, Armstrong constructed in 2008, and Boning #1 and #2 constructed in 2003, with maximum capacities of 0.2 MMBtu/hr, 5.0 MMBtu/hr, 15.0 MMBtu/hr, and both 0.08 MMBtu/hr respectively.

(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 Matter (PM) [326 IAC 6-2-4]

Pursuant to 326 IAC 6-2-4, particulate emissions from Boilers #1 and #2, Evis Laundry, Hanger Laundry, Boning Laundry #1, Boning Laundry #2, Evis water heater, Quickwater water heater, Armstrong water heater, and Boning water heater shall not exceed the pounds per MMBtu heat input emission limits, as listed in the table below:

Year Constructed	Emission Unit	Maximum Capacity of Boilers Constructed (MMBtu/hr)	Total Source Operating Capacity at the time of construction (MMBtu/hr) (Q)	PM Emission Limitation for each boiler (lbs/MMBtu) (Pt)
2002	Boning Laundry #1 Boning Laundry #2	0.165 0.165	0.33	1.45
2003	Quickwater water heater Boning #1 water heater Boning #2 water heater	5.0 0.08 0.08	5.49	0.70
2005	Boiler #1 Boiler #2	7.876 7.876	21.242	0.49
2006	Evis Laundry Hanger Laundry Evis water heater	0.165 0.165 0.2	21.772	0.49
2008	Armstrong water heater	15.0	36.772	0.43

These limitations are based on the following equation:

$$Pt = \frac{1.09}{Q^{0.26}}$$

Where:

- Pt = Pounds of particulate matter emitted per million Btu (lb/MMBtu) heat input.
Q = Total source maximum operating capacity rating in million Btu per hour (MMBtu/hr) heat input. The maximum operating capacity rating is defined as the maximum capacity at which the facility is operated or the nameplate capacity, whichever is specified in the facility's permit application, except when some lower capacity is contained in the facility's operation permit; in which case, the capacity specified in the operation permit shall be used.

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE AND ENFORCEMENT 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:	Farbest Foods, Inc.
Address:	4689 S CR 400 W
City:	Huntingburg, Indiana 47542
Phone Number:	(812) 683-4200
Registration No.:	R037-32300-00121

I hereby certify that Farbest Foods, Inc. is :

still in operation.

I hereby certify that Farbest Foods, Inc. is :

no longer in operation.

in compliance with the requirements of Registration No. R037-32300-00121.

not in compliance with the requirements of Registration No. R037-32300-00121.

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
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Source Name:	Farbest Foods, Inc.
Source Location:	4689 S CR 400 W Huntingburg, IN 47542
County:	Dubois
SIC Code:	2015 (Poultry Slaughtering and Processing)
Registration (or Exemption) No.:	R037-32300-00121
Permit Reviewer:	Susann Brown

On September 11, 2012 the Office of Air Quality (OAQ) received an application from Farbest Foods, Inc. related to the operation of an existing stationary turkey deboning and processing site.

Existing Approvals

There have been no previous approvals issued to this source.

County Attainment Status

The source is located in Dubois 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 standard. ¹
PM ₁₀	Unclassifiable effective November 15, 1990.
NO ₂	Cannot be classified or better than national standards.
Pb	Not designated.
¹ Unclassifiable or attainment effective October 18, 2000, for the 1-hour ozone standard which was revoked effective June 15, 2005. Unclassifiable or attainment effective October 27, 2011, for PM _{2.5} .	

- (a) **Ozone Standards**
 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. Dubois 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) **PM_{2.5}**
 Dubois County has been classified as attainment for PM_{2.5}. On May 8, 2008 U.S. EPA promulgated the requirements for Prevention of Significant Deterioration (PSD) for PM_{2.5} emissions. These rules became effective on July 15, 2008. On May 4, 2011 the air pollution control board issued an emergency rule establishing the direct PM_{2.5} significant level at ten (10) tons per year. This rule became effective, June 28, 2011. Therefore, direct PM_{2.5} and SO₂ emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2. See the State Rule Applicability – Entire Source section.

- (c) Other Criteria Pollutants
Dubois County has been classified as attainment or unclassifiable in Indiana for 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, hazardous air pollutants, and greenhouse gases 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 Farbest Foods, Inc. on September 11, 2012, related to the continued operation of an existing stationary turkey deboning and processing site.

The source consists of the following unpermitted emission units:

- (a) One (1) turkey slaughtering operation, constructed in 1969, including stunning, evisceration, de-boning and blast freezing.
- (b) Natural gas-fired combustion sources with heat input equal to or less than ten million (10,000,000) Btu per hour, consisting of:
 - (1) Two (2) natural gas-fired boilers, identified as Boiler #1 and Boiler #2, both constructed in 2005, each with a maximum capacity of 7.876 MMBtu/hr, with emissions exhausting to Stacks 28 and 29.
 - (2) Twenty-seven (27) natural gas-fired heaters, each with a maximum capacity less than 5 MMBtu/hr, and with a total maximum capacity of 15.75 MMBtu/hr.
 - (3) Four (4) natural gas-fired dryers, identified as Evis Laundry constructed in 2006, Hanger Laundry constructed in 2006, and Boning Laundry #1 and Boning Laundry #2 both constructed in 2002, each with a maximum capacity of 0.165 MMBtu/hr.
 - (4) Five (5) natural gas-fired water heaters, identified as Evis constructed in 2006, Quickwater constructed in 2003, Armstrong constructed in 2008, and Boning #1 and #2 constructed in 2003, with maximum capacities of 0.2 MMBtu/hr, 5.0 MMBtu/hr, 15.0 MMBtu/hr, and both 0.08 MMBtu/hr respectively.
- (c) Four (4) carbon dioxide tanks, identified as Stun Carbon Dioxide Tank, West Carbon Dioxide Tank, East Carbon Dioxide Tank, and North Carbon Dioxide Tank, constructed prior to 1998 and used during turkey product processing.
- (d) Two (2) wastewater lagoons, for wastewater from the turkey product processing facility.
- (e) Three (3) anhydrous ammonia tanks, identified as Ammonia #1, Ammonia #2, and Ammonia #3, constructed prior to 1998 and used during turkey product processing.
- (f) Welding operations as follows:
 - (1) One (1) MIG welder
 - (2) One (1) stick welder
 - (3) Two (2) TIG welders
 - (4) Two (2) oxyacetylene flame-cutting operations.

- (5) Two (2) Plasma cutters
- (g) Diesel fuel transfer and dispensing operation, constructed prior to 1998, consisting of:
 - (1) One (1) diesel tank, identified as Diesel 1 (on-road) has a capacity of 564 gallons and an annual throughput of 6,024 gallons.
 - (2) One (1) diesel tank, identified as Diesel 2 (off-road) has a capacity of 564 gallons and an annual throughput of 13,272 gallons.
- (h) One (1) kerosene tank, constructed prior to 1998, with a capacity of 564 gallons and an annual throughput of 396 gallons.
- (i) Maintenance and repair operations, utilizing aerosols and flow coat methods to deliver coatings, sealers, adhesives, and non-degreasing cleaning solvents to the applicators, equipped with an aerosol can recycling system.
- (j) Paved roads

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.

Note: Prior to 2005, the potential to emit of the source was less than the Registration ranges listed in 326 IAC 2-5.1-2(a)(1). In 2005, upon construction of the two (2) natural gas-fired boilers (Boiler #1 and Boiler #2), the potential to emit of the source increased to within the Registration ranges listed in 326 IAC 2-5.1-2(a)(1). As a result, the source was required to obtain a Registration prior to construction of Boiler #1 and Boiler #2. In addition, the source was required to obtain a Registration prior to construction of the two (2) natural gas-fired dryers (Evis Laundry constructed in 2006, and Hanger Laundry constructed in 2006) and the two (2) natural gas-fired water heaters (Evis constructed in 2006 and Armstrong constructed in 2008).

Emission Calculations

See Appendix A of this TSD for detailed emission calculations.

Permit Level Determination – Registration

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 *	PM2.5	SO ₂	NO _x	VOC	CO	Hydrogen Sulfide (H ₂ S)	GHGs as CO ₂ e**	Total HAPs	Worst Single HAP	
Natural gas combustion												(hexane)
Boilers	0.13	0.51	0.51	0.04	3.38	0.37	5.68	—	8,166	0.13	0.13	0.12
Heaters	0.13	0.51	0.51	0.04	6.69	0.37	5.62	—	8,074	0.13	0.13	0.12
Dryers	5.8E-3	2.2E-2	2.2E-2	1.7E-3	2.8E-1	1.6E-2	0.24	—	342	5.4E-3	5.1E-3	5.1E-3
Water Heaters	0.17	0.67	0.67	0.05	4.46	0.49	7.42	—	10,616	0.17	0.17	1.6E-1
Carbon Dioxide tanks	—	—	—	—	—	—	—	—	29,802	—	—	—
Wastewater lagoons	—	—	—	—	—	—	—	11.17	—	—	—	—
Welding	1.09	1.09	1.09	—	—	—	—	—	—	0.006	0.006	3.3E-3 (manganese)
Fuel tanks	—	—	—	—	—	4.6E-4	—	—	—	4.7E-6	4.7E-6	1.8E-6 (xylenes)
Paved roads	0.70	0.14	0.03	—	—	—	—	—	—	—	—	—
Total PTE of Entire Source	2.22	2.95	2.84	0.14	14.81	1.24	18.95	11.17	57,000	0.43	0.43	0.41 (hexane)
Exemptions Levels**	5	5	5	10	10	10	25	5	100,000	25	25	10
Registration Levels**	25	25	25	25	25	25	100	25	100,000	25	25	10
<p>*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".</p> <p>**The 100,000 CO₂e threshold represents the Title V and PSD subject to regulation thresholds for GHGs in order to determine whether a source's emissions are a regulated NSR pollutant under Title V and PSD.</p>												

- (a) The potential to emit (PTE) (as defined in 326 IAC 2-1.1-1) of NO_x and H₂S is 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.
- (b) The potential to emit (PTE) (as defined in 326 IAC 2-1.1-1) 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.
- (c) The potential to emit (PTE) (as defined in 326 IAC 2-1.1-1) greenhouse gases (GHGs) is less than the Title V subject to regulation threshold of one hundred thousand (100,000) tons of CO₂ equivalent emissions (CO₂e) per year. Therefore, the source is 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 Small Industrial-Commercial-Institutional Steam Generating Units, 40 CFR 60.40c, Subpart Dc, are not included in the permit for the boilers and water heaters at this source, because the units each have capacities less than 10 million British thermal units per hour.
- (b) The requirements of the New Source Performance Standard for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced After July 23, 1984, 40 CFR 60.110b, Subpart Kb, are not included in the permit for the two (2) diesel tanks and the one (1) kerosene tank (all constructed prior to 1998) because they each have a capacity less than forty (75) cubic meters (19,813 gallons).
- (c) The requirements of the New Source Performance Standard for Stationary Spark Ignition Internal Combustion Engines, 40 CFR 60, Subpart JJJJ (326 IAC 12), are not included in the permit, since the natural gas-fired boilers, heaters, and dryers, are not spark ignition internal combustion engines and do not meet the applicability criteria as specified in 40 CFR 60.4230.
- (d) There are no New Source Performance Standards (NSPS) (326 IAC 12 and 40 CFR Part 60) included in the permit.

National Emission Standards for Hazardous Air Pollutants (NESHAP)

- (e) The requirements of the National Emission Standard for Hazardous Air Pollutants (NESHAP) for Industrial, Commercial, and Institutional Boilers and Process Heaters, 40 CFR 63, Subpart DDDDD (63.7480 through 63.7575) (326 IAC 20-95) are not included in the permit renewal, because this source is not a major source of HAPs.
- (f) The requirements of the National Emission Standard for Hazardous Air Pollutants (NESHAP) for Source Category: Gasoline Dispensing Facilities, 40 CFR 63, Subpart CCCCC (63.11110 through 63.11132), are not included in the permit for the diesel and kerosene tanks, because the source will not operate a gasoline dispensing facility as defined by 40 CFR 63.11132.
- (g) The requirements of the National Emission Standards for Hazardous Air Pollutants (NESHAP) for Industrial, Commercial and Institutional Boilers Area Sources, 40 CFR 63, Subpart JJJJJJ, are not included in the permit for the natural gas-fired boilers and water heaters at this source, since gas-fired boilers, as defined in 40 CFR 63.11237, are specifically exempted from this rule, as indicated in 40 CFR 63.11195(e).
- (h) 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)

- (i) 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 2-5.5 (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)
This source is located in Dubois County, is not required to have an operating permit under 326 IAC 2-7, Part 70 Permit Program, and does not emit lead in the ambient air at levels equal to or greater than five (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 thirty 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)
The source is subject to the requirements of 326 IAC 6-4, because the paved roads have the potential to emit fugitive particulate emissions. 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 12 (New Source Performance Standards)
See Federal Rule Applicability Section of this TSD.
- (i) 326 IAC 20 (Hazardous Air Pollutants)
See Federal Rule Applicability Section of this TSD.

Natural-Gas Indirect Fired Combustion Units (Boilers, Dryers, and Water Heaters)

- (j) 326 IAC 6.5 (Particulate Matter Limitations Except Lake County)
Although the source is located in Dubois County, the natural gas-fired combustion units are not subject to the conditions of 326 IAC 6.5 because the source does not have the potential to emit ten (10) tons or more of particulate matter per year.

- (k) 326 IAC 6-2-1 (Particulate Emission Limitations for Sources of Indirect Heating)
Pursuant to 326 IAC 6-2-1(d), the Boilers #1 and #2, Evis Laundry, Hanger Laundry, Boning Laundry #1, Boning Laundry #2, Evis water heater, Quickwater water heater, Armstrong water heater, Boning #1 water heater, and Boning #2 water heater which were installed after September 21, 1983, are subject to the requirements of 326 IAC 6-2-4, since they each are a source of indirect heating.

- (1) Pursuant to 326 IAC 6-2-4, particulate emissions from Boilers #1 and #2, Evis Laundry, Hanger Laundry, Boning Laundry #1, Boning Laundry #2, Evis water heater, Quickwater water heater, Armstrong water heater, Boning #1 water heater, and Boning #2 water heater shall not exceed the pounds per MMBtu heat input emission limits, as listed in the table below:

Year Constructed	Emission Unit	Maximum Capacity of Boilers Constructed (MMBtu/hr)	Total Source Operating Capacity at the time of construction (MMBtu/hr) (Q)	PM Emission Limitation for each boiler (lbs/MMBtu) (Pt)
2002	Boning Laundry #1 Boning Laundry #2	0.165 0.165	0.33	1.45
2003	Quickwater water heater Boning #1 water heater Boning #2 water heater	5.0 0.08 0.08	5.49	0.70
2005	Boiler #1 Boiler #2	7.876 7.876	21.242	0.49
2006	Evis Laundry Hanger Laundry Evis water heater	0.165 0.165 0.2	21.772	0.49
2008	Armstrong water heater	15.0	36.772	0.43

These limitations are based on the following equation:

$$Pt = \frac{1.09}{Q^{0.26}}$$

Where:

- Pt = Pounds of particulate matter emitted per million Btu (lb/MMBtu) heat input.
- Q = Total source maximum operating capacity rating in million Btu per hour (MMBtu/hr) heat input. The maximum operating capacity rating is defined as the maximum capacity at which the facility is operated or the nameplate capacity, whichever is specified in the facility's permit application, except when some lower capacity is contained in the facility's operation permit; in which case, the capacity specified in the operation permit shall be used.

The AP-42 natural gas combustion emission factor for particulate matter (PM) is 0.00186 lb/MMBtu (1.9 lb/MMCF / 1020 MMBtu/MMCF), which is less than the 326 IAC 6-2-4 PM emission limit for each of the indirect heating facilities at this source. Therefore, each of the indirect heating

facilities at this source is able to comply with the applicable 326 IAC 6-2-4 PM emission limit without the use of a control device.

- (l) 326 IAC 7-1.1 (Sulfur Dioxide Emission Limitations)
Pursuant to 326 IAC 7-1.1-1, the natural gas-fired combustion units are not subject to the requirements of 326 IAC 7-1.1, since they each have unlimited sulfur dioxide (SO₂) emissions less than twenty-five (25) tons per year and ten (10) pounds per hour respectively.
- (m) 326 IAC 8-1-6 (VOC Rules: General Reduction Requirements for New Facilities)
The natural gas-fired combustion units are not subject to the requirements of 326 IAC 8-1-6, since each unit has unlimited VOC potential emissions of less than twenty-five (25) tons per year.

Diesel fuel transfer and dispensing operation

- (n) 326 IAC 8-1-6 (VOC Rules: General Reduction Requirements for New Facilities)
The diesel fuel transfer and dispensing operation is not subject to the requirements of 326 IAC 8-1-6, since it has unlimited VOC potential emissions of less than twenty-five (25) tons per year.
- (o) 326 IAC 8-4-3 (Petroleum Sources; Petroleum Liquid Storage Facilities)
Pursuant to 326 IAC 8-4-1(c) and 326 IAC 8-4-3(a), the diesel fuel transfer and dispensing operation is not subject to the requirements of 326 IAC 8-4-3, since it has a storage capacity less than thirty-nine thousand (39,000) gallons and stores diesel fuel which has a true vapor pressure less than 1.52 psi at the storage temperature.
- (p) 326 IAC 8-6 (Organic Solvent Emission Limitations)
This source commenced operation after January 1, 1980 in Dubois County. Therefore, the requirements of 326 IAC 8-6 are not applicable.
- (q) 326 IAC 8-9 (Volatile Organic Liquid Storage Vessels)
Pursuant to 326 IAC 8-9-1(a), this source (located in Dubois County) is not subject to the requirements of 326 IAC 8-9, since it is not located in Lake, Porter, Clark, or Floyd County.

Kerosene tank

- (r) 326 IAC 8-1-6 (VOC Rules: General Reduction Requirements for New Facilities)
The kerosene tank is not subject to the requirements of 326 IAC 8-1-6, since it has unlimited VOC potential emissions of less than twenty-five (25) tons per year.
- (s) 326 IAC 8-4-3 (Petroleum Sources; Petroleum Liquid Storage Facilities)
Pursuant to 326 IAC 8-4-1(c) and 326 IAC 8-4-3(a), the kerosene tank is not subject to the requirements of 326 IAC 8-4-3, since it has a storage capacity less than thirty-nine thousand (39,000) gallons and stores kerosene which has a true vapor pressure less than 1.52 psi at the storage temperature.
- (t) 326 IAC 8-6 (Organic Solvent Emission Limitations)
This source commenced operation after January 1, 1980 in Dubois County. Therefore, the requirements of 326 IAC 8-6 are not applicable.
- (u) 326 IAC 8-9 (Volatile Organic Liquid Storage Vessels)
Pursuant to 326 IAC 8-9-1(a), this source (located in Dubois County) is not subject to the requirements of 326 IAC 8-9, since it is not located in Lake, Porter, Clark, or Floyd County.

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 September 11, 2012.

The operation of this stationary turkey deboning and processing site shall be subject to the conditions of the attached proposed Registration No. R037-32300-00121. The staff recommends to the Commissioner that this Registration be approved.

IDEM Contact

- (a) Questions regarding this proposed permit can be directed to Susann Brown at the Indiana Department Environmental Management, Office of Air Quality, Permits Branch, 100 North Senate Avenue, MC 61-53 IGCN 1003, Indianapolis, Indiana 46204-2251 or by telephone at (317) 234-5176 or toll free at 1-800-451-6027 extension 4-5176.
- (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.in.gov/idem

**TSD Appendix A: Emission Calculations
Emissions Summary**

Company Name: Farbest Foods, Inc.
Source Address: 4689 S CR 400 W, Huntingburg, IN 47542
Permit Number: R037-32300-00121
Reviewer: Susann Brown

Emission Units	Uncontrolled/Unlimited Potential to Emit (PTE) (tons/year)											
	PM	PM10	PM2.5	SO2	NOx	VOC	CO	Sulfide (H2S)	GHGs as CO2e	Total HAPs	Worst Single HAP (hexane)	
Natural Gas Combustion	0.13	0.51	0.51	0.04	3.38	0.37	5.68	—	8,166	0.13	0.12	hexane
Heaters	0.13	0.51	0.51	0.04	6.69	0.37	5.62	—	8,074	0.13	0.12	hexane
Dryers	5.4E-03	2.2E-02	2.2E-02	1.7E-03	2.8E-01	1.6E-02	0.24	—	342	5.3E-03	5.1E-03	hexane
Water Heaters	0.17	0.67	0.67	0.05	4.46	0.49	7.42	—	10,616	0.17	1.6E-01	hexane
Carbon Dioxide tanks	—	—	—	—	—	—	—	—	29,802	—	—	—
Wastewater Lagoons	—	—	—	—	—	—	—	11.18	—	—	—	—
Welding	1.09	1.09	1.09	—	—	—	—	—	—	6.0E-03	3.3E-03	manganese
Fuel tanks	—	—	—	—	—	4.6E-04	—	—	—	4.7E-06	1.8E-06	xylenes
Paved roads	0.70	0.14	0.03	—	—	—	—	—	—	—	—	—
Total	2.22	2.95	2.84	0.14	14.81	1.24	18.95	11.18	57,000	0.43	0.41	hexane

TSD Appendix A: Emission Calculations
Natural Gas Combustion Only (Boilers)
Capacity <100 MMBtu/hr
Unlimited PTE for Existing Significant Boilers

Company Name: Farbest Foods, Inc.
Source Address: 4689 S CR 400 W, Huntingburg, IN 47542
Permit Number: R037-32300-00121
Reviewer: Susann Brown

Unit	Maximum Heat Input Capacity (MMBtu/hr)	High Heat Value (MMBtu/MMscf)	Potential Throughput (MMcf/yr)
Boiler #1	7.876	1020	67.64
Boiler #2	7.876	1020	67.64
Totals	15.75		135.28

Criteria Pollutants	Pollutant						
	PM*	PM10*	PM2.5*	SO2	NOx	VOC	CO
Emission Factor in lb/MMcf	1.9	7.6	7.6	0.6	50 **see below	5.5	84
Potential Emission in tons/yr	0.13	0.51	0.51	0.04	3.38	0.37	5.68

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

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

Hazardous Air Pollutants	HAPs - Organics*					HAPs - Metals*				
	Benzene	DCB	Formaldehyde	Hexane	Toluene	Pb	Cd	Cr	Mn	Ni
Emission Factor in lb/MMcf	2.1E-03	1.2E-03	7.5E-02	1.8E+00	3.4E-03	5.0E-04	1.1E-03	1.4E-03	3.8E-04	2.1E-03
Potential Emission in tons/yr	1.4E-04	8.1E-05	5.1E-03	1.2E-01	2.3E-04	3.4E-05	7.4E-05	9.5E-05	2.6E-05	1.4E-04

*The five highest organic and metal HAPs emission factors are provided above. Additional HAPs emission factors are available in AP-42, Chapter 1.4.

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/yr) = [Heat Input Capacity (MMBtu/hr)] * [8,760 hours/year] * [MMcf/1,020 MMBtu]

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

Potential Emission of Total HAPs (tons/yr)	0.13
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Greenhouse Gases (GHGs)

Greenhouse Gas (GHG)	Greenhouse Gas (GHG)		
	CO2	CH4	N2O
Emission Factor in lb/MMcf	120000	2.3	2.2
Potential Emission in tons/yr	8,117	0.16	0.15
Summed Potential Emissions in tons/yr	8,117		
CO2e Total in tons/yr	8,166		

Methodology

The N2O Emission Factor for uncontrolled is 2.2. The N2O Emission Factor for low Nox burner is 0.64.

Emission Factors are from AP 42, Table 1.4-2 SCC #1-02-006-02, 1-01-006-02, 1-03-006-02, and 1-03-006-03.

Greenhouse Warming Potentials (GWP) from Table A-1 of 40 CFR Part 98 Subpart A.

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

CO2e (tons/yr) = CO2 Potential Emission ton/yr x CO2 GWP (1) + CH4 Potential Emission ton/yr x CH4 GWP (21) + N2O Potential Emission ton/yr x N2O GWP (310).

Abbreviations

PM = Particulate Matter
 PM10 = Particulate Matter (<10 um)
 SO2 = Sulfur Dioxide
 NOx = Nitrous Oxides
 VOC - Volatile Organic Compounds
 CO = Carbon Monoxide

DCB = Dichlorobenzene
 Pb = Lead
 Cd = Cadmium
 Cr = Chromium
 Mn = Manganese
 Ni = Nickel

CO2 = Carbon Dioxide
 CH4 = Methane
 N2O = Nitrous Oxide
 CO2e = CO2 equivalent emissions

**TSD Appendix A: Emission Calculations
Natural Gas Combustion Only (Heaters)
Capacity <100 MMBtu/hr**

**Company Name: Farbest Foods, Inc.
Source Address: 4689 S CR 400 W, Huntingburg, IN 47542
Permit Number: R037-32300-00121
Reviewer: Susann Brown**

Unit ID	CAS Number Unit	Maximum Heat Input Capacity (MMBtu/hr)	High Heat Value (MMBtu/MMscf)	Potential Throughput (MMcf/yr)
Stunning	1	1.375	1020	11.81
Vaporizer Room	2	0.200	1020	1.72
Evis Breakroom (W)	3	0.200	1020	1.72
Evis Breakroom (N)	4	0.120	1020	1.03
Evis Breakroom (East)	5	0.120	1020	1.03
Hanger Breakroom	6	0.080	1020	0.69
Evis Classroom	7	0.120	1020	1.03
Food Safety	11	0.090	1020	0.77
USDA	12	0.060	1020	0.52
Picking MUA	13	1.730	1020	14.86
New offal unit	14	3.790	1020	32.55
Old offal unit	15	1.850	1020	15.89
Ice house	16	0.200	1020	1.72
Evis MUA (CDI)	18	2.430	1020	20.87
Safety	20	0.040	1020	0.34
Maint. Shop (N)	21	0.200	1020	1.72
Maint. Shop (S)	22	0.200	1020	1.72
Maint. Floor Ht	23	0.210	1020	1.80
Maint. Offices (S)	24	0.200	1020	1.72
Maint. Offices (N)	25	0.070	1020	0.60
Maint. Parts	26	0.130	1020	1.12
Boning MUA (CDI)	27	1.290	1020	11.08
Boning 3rd floor (new)	31	0.080	1020	0.69
Boning 1st Flr Break rm	32	0.240	1020	2.06
Boning 1st Flr Mech Spc	33	0.088	1020	0.76
Boning 2nd Flr Lockers	34	0.240	1020	2.06
Boning 3rd Flr E. Side	36	0.220	1020	1.89
Total		15.57	Total	133.74

Criteria Pollutants	Pollutant						
	PM*	PM10*	PM2.5*	SO2	NOx	VOC	CO
Emission Factor in lb/MMcf	1.9	7.6	7.6	0.6	100 **see below	5.5	84
Potential Emission in tons/yr	0.13	0.51	0.51	0.040	6.69	0.37	5.62

*PM emission factor is filterable PM only. PM10 emission factor is filterable and condensable PM10 combined. PM2.5 assumed equal to PM10
**Emission Factors for NOx: Uncontrolled = 100, Low NOx Burner = 50, Low NOx Burners/Flue gas recirculation = 32

Hazardous Air Pollutants	HAPs - Organics*					HAPs - Metals*				
	Benzene	DCB	Formaldehyde	Hexane	Toluene	Pb	Cd	Cr	Mn	Ni
Emission Factor in lb/MMcf	2.1E-03	1.2E-03	7.5E-02	1.8E+00	3.4E-03	5.0E-04	1.1E-03	1.4E-03	3.8E-04	2.1E-03
Potential Emission in tons/yr	1.4E-04	8.0E-05	5.0E-03	1.2E-01	2.3E-04	3.3E-05	7.4E-05	9.4E-05	2.5E-05	1.4E-04

*The five highest organic and metal HAPs emission factors are provided above. Additional HAPs emission factors are available in AP-42, Chapter 1.4.

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

Potential Emission of Total HAPs (tons/yr)	0.13
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Greenhouse Gases (GHGs)

	Greenhouse Gas (GHG)		
	CO2	CH4	N2O
Emission Factor in lb/MMcf	120000	2.3	2.2
Potential Emission in tons/yr	8.025	0.15	0.15
Summed Potential Emissions in tons/yr	8,025		
CO2e Total in tons/yr	8,074		

Methodology

The N2O Emission Factor for uncontrolled is 2.2. The N2O Emission Factor for low Nox burner is 0.64.

Emission Factors are from AP 42, Table 1.4-2 SCC #1-02-006-02, 1-01-006-02, 1-03-006-02, and 1-03-006-03.

Greenhouse Warming Potentials (GWP) from Table A-1 of 40 CFR Part 98 Subpart A.

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

CO2e (tons/yr) = CO2 Potential Emission ton/yr x CO2 GWP (1) + CH4 Potential Emission ton/yr x CH4 GWP (21) + N2O Potential Emission ton/yr x N2O GWP (310).

Abbreviations

PM = Particulate Matter
PM10 = Particulate Matter (<10 um)
SO2 = Sulfur Dioxide
NOx = Nitrous Oxides
VOC - Volatile Organic Compounds
CO = Carbon Monoxide

DCB = Dichlorobenzene
Pb = Lead
Cd = Cadmium
Cr = Chromium
Mn = Manganese
Ni = Nickel

CO2 = Carbon Dioxide
CH4 = Methane
N2O = Nitrous Oxide
CO2e = CO2 equivalent emissions

**TSD Appendix A: Emission Calculations
Natural Gas Combustion Only (Dryers)
MM BTU/HR <100**

Company Name: Farbest Foods, Inc.
Source Address: 4689 S CR 400 W, Huntingburg, IN 47542
Permit Number: R037-32300-00121
Reviewer: Susann Brown

Unit ID	CAS Number Unit	Maximum Heat Input Capacity (MMBtu/hr)	High Heat Value (MMBtu/MMscf)	Potential Throughput (MMcf/yr)
Evis Laundry	8	0.165	1020	1.42
Hanger Laundry	9	0.165	1020	1.42
Boning Laundry #1	38	0.165	1020	1.42
Boning Laundry	39	0.165	1020	1.42
Total		0.660	Total	5.67

Heat Input Capacity MMBtu/hr	HHV mmBtu mmscf	Potential Throughput MMCF/yr
0.66	1020	5.67

Emission Factor in lb/MMCF	Pollutant						
	PM*	PM10*	direct PM2.5*	SO2	NOx	VOC	CO
	1.9	7.6	7.6	0.6	100 **see below	5.5	84
Potential Emission in tons/yr	0.01	0.02	0.02	0.002	0.28	0.02	0.24

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

Methodology

All emission factors are based on normal firing.
MMBtu = 1,000,000 Btu
MMCF = 1,000,000 Cubic Feet of Gas
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

Emission Factor in lb/MMcf	HAPs - Organics				
	Benzene	Dichlorobenzene	Formaldehyde	Hexane	Toluene
	2.1E-03	1.2E-03	7.5E-02	1.8E+00	3.4E-03
Potential Emission in tons/yr	6.0E-06	3.4E-06	2.1E-04	5.1E-03	9.6E-06

Emission Factor in lb/MMcf	HAPs - Metals				
	Lead	Cadmium	Chromium	Manganese	Nickel
	5.0E-04	1.1E-03	1.4E-03	3.8E-04	2.1E-03
Potential Emission in tons/yr	1.4E-06	3.1E-06	4.0E-06	1.1E-06	6.0E-06

Potential Emission of Total HAPs (tons/yr) 5.3E-03

The five highest organic and metal HAPs emission factors are provided above.
Additional HAPs emission factors are available in AP-42, Chapter 1.4.

Emission Factor in lb/MMcf	Greenhouse Gas		
	CO2	CH4	N2O
	120,000	2.3	2.2
Potential Emission in tons/yr	340	6.5E-03	6.2E-03
Summed Potential Emissions in tons/yr	340		
CO2e Total in tons/yr	342		

Methodology

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

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

Company Name: Farbest Foods, Inc.
Source Address: 4689 S CR 400 W, Huntingburg, IN 47542
Permit Number: R037-32300-00121
Reviewer: Susann Brown

Unit ID	CAS Number Unit	Maximum Heat Input Capacity (MMBtu/hr)	High Heat Value (MMBtu/MMscf)	Potential Throughput (MMcf/yr)
10	Evis water heater	0.2	1020	1.72
19	Quickwater*	5.0	1020	42.94
30	Armstrong*	15.0	1020	128.82
35	Boning	0.08	1020	0.69
37	Boning	0.08	1020	0.69
Total		20.36	Total	174.86

*Low NOx burner

Heat Input Capacity MMBtu/hr	HHV mmBtu mmscf	Potential Throughput MMCF/yr
20.4	1020	174.86

Emission Factor in lb/MMCF	Pollutant						
	PM*	PM10*	direct PM2.5*	SO2	NOx	VOC	CO
	1.9	7.6	7.6	0.6	50 **see below	5.5	84
Potential Emission in tons/yr	0.2	0.7	0.7	0.1	4.5	0.5	7.4

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

Methodology

All emission factors are based on normal firing.
 MMBtu = 1,000,000 Btu
 MMCF = 1,000,000 Cubic Feet of Gas
 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

Emission Factor in lb/MMcf	HAPs - Organics				
	Benzene	Dichlorobenzen	Formaldehyde	Hexane	Toluene
	2.1E-03	1.2E-03	7.5E-02	1.8E+00	3.4E-03
Potential Emission in tons/yr	1.9E-04	1.1E-04	6.6E-03	1.6E-01	3.0E-04

Emission Factor in lb/MMcf	HAPs - Metals				
	Lead	Cadmium	Chromium	Manganese	Nickel
	5.0E-04	1.1E-03	1.4E-03	3.8E-04	2.1E-03
Potential Emission in tons/yr	4.4E-05	9.7E-05	1.2E-04	3.4E-05	1.9E-04

Potential Emission of Total HAPs (tons/yr)		1.7E-01
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The five highest organic and metal HAPs emission factors are provided above.
 Additional HAPs emission factors are available in AP-42, Chapter 1.4.

Emission Factor in lb/MMcf	Greenhouse Gas		
	CO2	CH4	N2O
	120,000	2.3	0.64
Potential Emission in tons/yr	10,594	0.20	0.06
Summed Potential Emissions in tons/yr	10,595		
CO2e Total in tons/yr	10,616		

Methodology

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

**TSD Appendix A: Emission Calculations
Carbon Dioxide Emissions**

Company Name: Farbest Foods, Inc.
Source Address: 4689 S CR 400 W, Huntingburg, IN 47542
Permit Number: R037-32300-00121
Reviewer: Susann Brown

Emission Unit	Carbon Dioxide (CO2) Emissions	
	(lb/hr)	(ton/yr)
Stunner	1500	6570
Combo chiller 1	89	390
Combo chiller 2	125	546
Combo chiller 3	232	1014
Combo chiller 4	249	1092
Combo chiller 5	89	390
Ground turkey 1	655	2871
Ground turkey 2	655	2871
Rotary chiller 1	2441	10692
Rotary chiller 2	768	3366
Total	6804	29802

Methodology:

Emissions (tons/yr) = Emissions (lb/hr) * 8,760 hours * 1 ton / 2,000 lbs

**TSD Appendix A: Emission Calculations
Hydrogen Sulfide Emissions from Wastewater Lagoons**

Company Name: Farbest Foods, Inc.
Source Address: 4689 S CR 400 W, Huntingburg, IN 47542
Permit Number: R037-32300-00121
Reviewer: Susann Brown

Emission Unit	Hydrogen Sulfide (H2S) Emissions	
	(lb/hr)	(ton/yr)
Wastewater Lagoons	2.55	11.18
Total	2.55	11.18

Methodology:

Emissions (lb/hr) = Throughput (25500 gallons/hr) * 3.785 liter/gallon * Influent H2S (12.0 mg/L) * 1 lb/453592.37 mg

Emissions (tons/yr) = Emissions (lb/hr) * 8,760 hours * 1 ton / 2,000 lbs

**TSD Appendix A: Emission Calculations
Welding and Thermal Cutting**

Company Name: Farbest Foods, Inc.
Source Address: 4689 S CR 400 W, Huntingburg, IN 47542
Permit Number: R037-32300-00121
Reviewer: Susann Brown

PROCESS	Number of Stations	Max. electrode consumption per station (lbs/hr)	EMISSION FACTORS* (lb pollutant/lb electrode)				EMISSIONS (lbs/hr)				HAPS (lbs/hr)					
			PM = PM10	Mn	Ni	Cr	PM = PM10	Mn	Ni	Cr						
WELDING																
Stick (E7018 electrode)	1	0.007					0.0211	0.0009			0.00015	0.000006	0.0	0.0	0.000006	
Tungsten Inert Gas (TIG)(carbon steel)	2	0.003					0.0055	0.0005			0.00003	0.000003	0.0	0.0	0.000003	
FLAME CUTTING																
PROCESS	Number of Stations	Max. Metal Thickness Cut (in.)	Max. Metal Cutting Rate (in./minute)	EMISSION FACTORS (lb pollutant/1,000 inches cut, 1" thick)**				EMISSIONS (lbs/hr)				HAPS (lbs/hr)				
				PM = PM10	Mn	Ni	Cr	PM = PM10	Mn	Ni	Cr					
Oxyacetylene	2	0.5	25					0.1622	0.0005	0.0001	0.0003	0.243	0.001	0.0002	0.0005	0.001
Plasma**	2	0.25	48					0.0039				0.006	0.0	0.0	0.0	0.0
EMISSION TOTALS																
Potential Emissions lbs/hr												0.25	0.0008	0.0002	0.0005	0.0014
Potential Emissions lbs/day												5.98	0.02	0.004	0.01	0.0326
Potential Emissions tons/year												1.09	0.0033	0.0007	0.0020	0.0060

Methodology:

*Emission Factors are default values for carbon steel unless a specific electrode type is noted in the Process column.

**Emission Factor for plasma cutting from American Welding Society (AWS). Trials reported for wet cutting of 8 mm thick mild steel with 3.5 m/min cutting speed (at 0.2 g/min emitted). Therefore, the emission factor for plasma cutting is for 8 mm thick rather than 1 inch, and the maximum metal thickness is not used in calculating the emissions.

Using AWS average values: (0.25 g/min)/(3.6 m/min) x (0.0022 lb/g)/(39.37 in./m) x (1,000 in.) = 0.0039 lb/1,000 in. cut, 8 mm thick

Plasma cutting emissions, lb/hr: (# of stations)(max. cutting rate, in./min.)(60 min./hr.)(emission factor, lb. pollutant/1,000 in. cut, 8 mm thick)

Cutting emissions, lb/hr: (# of stations)(max. metal thickness, in.)(max. cutting rate, in./min.)(60 min./hr.)(emission factor, lb. pollutant/1,000 in. cut, 1" thick)

Welding emissions, lb/hr: (# of stations)(max. lbs of electrode used/hr/station)(emission factor, lb. pollutant/lb. of electrode used)

Emissions, lbs/day = emissions, lbs/hr x 24 hrs/day

Emissions, tons/yr = emissions, lb/hr x 8,760 hrs/year x 1 ton/2,000 lbs.

**TSD Appendix A: Emission Calculations
Fuel Storage Tanks and Fuel Transfer and Dispensing
Volatile Organic Compound (VOC)**

Company Name: Farbest Foods, Inc.
Source Address: 4689 S CR 400 W, Huntingburg, IN 47542
Permit Number: R037-32300-00121
Reviewer: Susann Brown

Volatile Organic Compound (VOC) Emissions From Storage Tanks (Working and Breathing Losses) Using US EPA TANKS Version 4.09 program

VOC emissions from storage tanks were determined by using US EPA TANKS Version 4.09 program.

Product Stored	Maximum Liquid Volume (gallons)	Turnovers per year	Average monthly use (gallons)	Annual Product Throughput (gallons/yr)	VOC Working Losses (lbs/yr)	VOC Breathing Losses (lbs/yr)	Total VOC Losses (lbs/yr)	VOC Working Losses (tons/yr)	VOC Breathing Losses (tons/yr)	Total VOC Losses (tons/yr)
Kerosene	564	12.0	33.0	396	0.01	0.17	0.18	5.0E-06	8.5E-05	9.0E-05
Diesel 1 (on-road)	564	12.0	602.0	6,024	0.12	0.17	0.29	6.0E-05	8.5E-05	1.5E-04
Diesel 2 (off-road)	564	12	1106	13,272	0.27	0.17	0.44	1.4E-04	8.5E-05	2.2E-04
Totals							0.91			4.6E-04

Methodology

Product Throughput (gallons/yr) = [Maximum Liquid Volume (gallons)] * [Turnovers per year]

Hazardous Air Pollutant (HAP) Emissions

Product Stored	Total PTE of VOC (tons/yr)	PTE of Total HAPs (tons/yr)	PTE of Worst Single HAP (tons/yr)	Worst Single HAP
Diesel	3.7E-04	4.7E-06	1.8E-06	Xylenes
Kerosene	9.0E-05	4.1E-06	1.2E-07	Napthalene
Totals		4.7E-06	1.8E-06	Xylenes

Hazardous Air Pollutant (HAP) Content (% by weight) For Various Petroleum Mixtures*

Volatile Organic HAP	CAS#	HAP Content (% by weight)*	
		Kerosene	Diesel (#2) Fuel Oil
1,3-Butadiene	106-99-0		
2,2,4-Trimethylpentane	540-84-1		
Acenaphthene	83-32-9		
Acenaphthylene	208-96-8		
Anthracene	120-12-7		5.80E-5%
Benzene	71-43-2	0.07%	2.90E-4%
Benzo(a)anthracene	56-55-3		9.60E-7%
Benzo(a)pyrene	50-32-8		2.20E-6%
Benzo(g,h,i)perylene	191-24-2		1.20E-7%
Biphenyl	92-52-4		6.30E-4%
Chrysene	218-01-9		4.50E-7%
Ethylbenzene	100-41-4	0.20%	0.07%
Fluoranthene	206-44-0		5.90E-5%
Fluorene	86-73-7		8.60E-4%
Indeno(1,2,3-cd)pyrene	193-39-5		1.60E-7%
Methyl-tert-butylether	1634-04-4		
Naphthalene	91-20-3	3.00%	0.26%
n-Hexane	110-54-3	0.10%	
Phenanthrene	85-01-8		8.80E-4%
Pyrene	129-00-0		4.60E-5%
Toluene	108-88-3	0.30%	0.18%
Total Xylenes	1330-20-7	0.90%	0.50%
Total Organic HAPs		4.57%	1.29%
Worst Single HAP		3.00%	0.50%
		Napthalene	Xylenes

Methodology

*Source: Petroleum Liquids. Potter, T.L. and K.E. Simmons. 1998. Total Petroleum Hydrocarbon Criteria Working Group Series, Volume 2. Composition of Petroleum Mixtures. The Association for Environmental Health and Science. Available on the Internet at: <http://www.aehsfoundation.org/Publications.aspx>

Source: Sunoco Kerosene MSDS (http://www.eliroberts.com/pdf/k1_kerosene.pdf)

PTE of Total HAPs (tons/yr) = [Total HAP Content (% by weight)] * [PTE of VOC (tons/yr)]

PTE of Worst Single HAP (tons/yr) = [Worst Single HAP Content (% by weight)] * [PTE of VOC (tons/yr)]

Abbreviations

VOC = Volatile Organic Compounds

PTE = Potential to Emit

HAP = Hazardous Air Pollutant

TSD Appendix A: Emission Calculations
Fugitive Dust Emissions - Paved Roads

Company Name: Farbest Foods, Inc.
Source Address: 4689 S CR 400 W, Huntingburg, IN 47542
Permit Number: R037-32300-00121
Reviewer: Susann Brown

Paved Roads at Industrial Site

The following calculations determine the amount of emissions created by paved roads, based on 8,760 hours of use and AP-42, Ch 13.2.1 (1/2011).

Vehicle Information (provided by source)

Type of Traffic	Vehicle Type	Maximum number of vehicles per day	Number of one-way trips per day per vehicle	Maximum trips per day (trip/day)	Maximum Weight of Loaded Vehicle (tons/trip)	Total Weight driven per day (ton/day)	Maximum one-way distance (feet/trip)	Maximum one-way distance (mi/trip)	Maximum one-way miles (miles/day)	Maximum one-way miles (miles/yr)
Vehicle Type 1 (entering plant) (one-way trip)	Rendering hauling semi truck	18	1.0	1.0	16.5	16.5	654	0.124	0.1	45.3
Vehicle Type 1 (leaving plant) (one-way trip)	Rendering hauling semi truck	18	1.0	1.0	26.5	26.5	654	0.124	0.1	45.3
Vehicle Type 2 (entering plant) (one-way trip)	Live bird hauling semi truck	40	1.0	1.0	27.8	27.8	1225	0.232	0.2	84.7
Vehicle Type 2 (leaving plant) (one-way trip)	Live bird hauling semi truck	40	1.0	1.0	16.5	16.5	1225	0.232	0.2	84.7
Vehicle Type 3 (entering plant) (one-way trip)	CO2 deliver semi truck	4	1.0	1.0	26.3	26.3	3189	0.604	0.6	220.5
Vehicle Type 3 (leaving plant) (one-way trip)	CO2 deliver semi truck	4	1.0	1.0	16.5	16.5	3189	0.604	0.6	220.5
Vehicle Type 4 (entering plant) (one-way trip)	Distribution semi truck	30	1.0	1.0	16.5	16.5	454	0.086	0.1	31.4
Vehicle Type 4 (leaving plant) (one-way trip)	Distribution semi truck	30	1.0	1.0	28.0	28.0	454	0.086	0.1	31.4
		Total	8.0	8.0	174.5	174.5			2.1	763.6

Average Vehicle Weight Per Trip = $\frac{21.8}{0.26}$ tons/trip
 Average Miles Per Trip = $\frac{21.8}{0.26}$ miles/trip

Unmitigated Emission Factor, Ef = $k * (sL)^{0.91} * (W)^{1.02}$ (Equation 1 from AP-42 13.2.1)

where k =	PM	PM10	PM2.5	lb/VMT =
W =	0.011	0.0022	0.00054	particle size multiplier (AP-42 Table 13.2.1-1)
sL =	21.8	21.8	21.8	tons = average vehicle weight (provided by source)
	9.7	9.7	9.7	g/m ² = silt loading value for paved roads at iron and steel production facilities - Table 13.2.1-3)

Taking natural mitigation due to precipitation into consideration, Mitigated Emission Factor, Eext = $E * [1 - (p/4N)]$ (Equation 2 from AP-42 13.2.1)

Mitigated Emission Factor, Eext = $E * [1 - (p/4N)]$
 where p = $\frac{125}{365}$ days of rain greater than or equal to 0.01 inches (see Fig. 13.2.1-2)
 N = 365 days per year

Unmitigated Emission Factor, Ef = $\frac{2.018}{1.845}$ lb/mile
 Mitigated Emission Factor, Eext = $\frac{0.404}{0.369}$ lb/mile

Type of Traffic	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)
Vehicle Type 1 (entering plant) (one-way trip)	Rendering hauling semi truck	0.05	0.009	0.002	0.04	0.008	0.002
Vehicle Type 1 (leaving plant) (one-way trip)	Rendering hauling semi truck	0.05	0.009	0.002	0.04	0.008	0.002
Vehicle Type 2 (entering plant) (one-way trip)	Live bird hauling semi truck	0.09	0.017	0.004	0.08	0.016	0.004
Vehicle Type 2 (leaving plant) (one-way trip)	Live bird hauling semi truck	0.09	0.017	0.004	0.08	0.016	0.004
Vehicle Type 3 (entering plant) (one-way trip)	CO2 deliver semi truck	0.22	0.044	0.011	0.20	0.041	0.010
Vehicle Type 3 (leaving plant) (one-way trip)	CO2 deliver semi truck	0.22	0.044	0.011	0.20	0.041	0.010
Vehicle Type 4 (entering plant) (one-way trip)	Distribution semi truck	0.03	0.006	0.002	0.03	0.006	0.001
Vehicle Type 4 (leaving plant) (one-way trip)	Distribution semi truck	0.03	0.006	0.002	0.03	0.006	0.001
		0.77	0.15	0.04	0.70	0.14	0.03

Methodology

Total Weight driven per day (ton/day) = [Maximum Weight of Loaded Vehicle (tons/trip)] * [Maximum trips per day (trip/day)]
 Maximum one-way distance (mi/trip) = [Maximum one-way distance (feet/trip)] / [5280 ft/mi]
 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 lb)
 Mitigated PTE (tons/yr) = [Maximum one-way miles (miles/yr)] * [Mitigated Emission Factor (lb/mile)] * (ton/2000 lb)
 Controlled PTE (tons/yr) = [Mitigated PTE (tons/yr)] * [1 - Dust Control Efficiency]

Abbreviations

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



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

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SENT VIA U.S. MAIL: CONFIRMED DELIVERY AND SIGNATURE REQUESTED

TO: Jason Trissler
Farbest Foods, Inc.
PO Box 480
Huntingburg, IN 47542-0480

DATE: November 15, 2012

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

SUBJECT: Final Decision
Registration
037 - 32300 - 00121

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

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

A copy of the final decision and supporting materials has also been sent via standard mail to:
Ted J Seger, President
OAQ Permits Branch Interested Parties List

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

Final Applicant Cover letter.dot 11/30/07

Mail Code 61-53

IDEM Staff	LPOGOST 11/15/2012 Farbest Foods, Inc 037 - 32300 - 00121 final)		AFFIX STAMP HERE IF USED AS CERTIFICATE OF MAILING	
Name and address of Sender		Indiana Department of Environmental Management Office of Air Quality – Permits Branch 100 N. Senate Indianapolis, IN 46204	Type of Mail: CERTIFICATE OF MAILING ONLY	

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1		Jason Trissler Farbest Foods, Inc PO Box 480 Huntingburg IN 47542-0480 (Source CAATS) Via confirmed delivery										
2		Ted J Seger President Farbest Foods, Inc PO Box 480 Huntingburg IN 47542-0480 (RO CAATS)										
3		Huntingburg City Council and Mayors Office 508 E 4th St Huntingburg IN 47542-1319 (Local Official)										
4		Mr. Wendell Hibdon Plumbers & Steam Fitters Union, Local 136 2300 St. Joe Industrial Park Dr Evansville IN 47720 (Affected Party)										
5		Dubois County Commissioners One Courthouse Square Jasper IN 47546 (Local Official)										
6		Mr. Alec Kalla 8733 W. Summit Circle Drive French Lick IN 47432 (Affected Party)										
7		DuBois County Health Department 1187 S St. Charles Street Jasper IN 47546 (Health Department)										
8		Mr. John Blair 800 Adams Ave Evansville IN 47713 (Affected Party)										
9		OFS Brands Holdings, Inc. 4611 S. 400 W Huntingburg IN 47542 (Affected Party)										
10		Whitsitt Farms, Inc. 6626 W 350 S Huntingburg IN 47542 (Affected Party)										
11		Terry Bockting 4346 W 500 S Huntingburg IN 47542 (Affected Party)										
12		Carrico Office Furniture, Inc 950 W 12th St Huntingburg IN 47542 (Affected Party)										
13		Kay Keusch 4421 W 500 S Huntingburg IN 47542 (Affected Party)										
14		Clarence Hurst 4301 W 500 S Huntingburg IN 47542 (Affected Party)										
15		Wayne & Mildred Guth 5161 S 400 W Huntingburg IN 47542 (Affected Party)										

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IDEM Staff	LPOGOST 11/15/2012 Farbest Foods, Inc 32300 (draft/final)		Type of Mail: CERTIFICATE OF MAILING ONLY	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		

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		Venture Realty, LLC PO Box 100 Huntingburg IN 47542 (Affected Party)										
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												
15												

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