



Mitchell E. Daniels, Jr.
Governor

Thomas W. Easterly
Commissioner

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

TO: Interested Parties / Applicant
DATE: May 03, 2006
RE: Maple Leaf Farms, Inc. / 085-22818-00107
FROM: Nisha Sizemore
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, Room 1049, 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 03/23/06



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

We make Indiana a cleaner, healthier place to live.

Mitchell E. Daniels, Jr.
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Mr. Dan Harper
Maple Leaf Farms, Inc.
P.O. Box 308
Milford, IN 46542

May 03, 2006

Re: Registered Construction and Operation Status,
085-22818-00107

Dear Mr. Harper:

The application from Maple Leaf Farms, Inc., received on March 15, 2006, has been reviewed. Based on the data submitted and the provisions in 326 IAC 2-5.5, it has been determined that the following poultry slaughtering and processing facility, located at 9166 N 200 East, Milford, Indiana, 46542, is classified as registered:

- (a) Thirteen (13) natural gas fired space heaters, identified as EU-001 through EU-011, EU-023 and EU-024; EU-001 through EU-011 and EU-023 and EU-024 were constructed in 1975 and exhaust to stacks S-1 through S-11, S-24 and S-25, respectively. EU-012 was constructed in 2005 and exhausts to S-12. These combined emission units have a maximum heat input capacity of 2.2 Million Btu/hr (MMBtu/hr).
- (b) Two (2) natural gas fired Fryers, identified as EU-012 and EU-013, exhausting to stacks S-12 and S-13 respectively, with a combined maximum heat input capacity of 2 MMBtu/hr.
- (c) Six (6) natural gas fired ovens, identified as EU-014 through EU-019, exhausting to stacks S-14 through S-19 respectively, with a combined maximum heat input capacity of 1.99 MMBtu/hr.
- (d) Five (5) natural gas fired Air Handler/Make-up Units, identified as EU-020, EU-021, EU-025, and EU-026, constructed in 2001 and exhausting to stacks S-20, S-21, S-25, and S-26 respectively. These emission units have a combined maximum heat input capacity of 6.8 MMBtu/hr.
- (e) Three (3) natural gas fired boilers, identified as EU-022, EU-027, and EU-028; EU-22 was constructed in 1975, while EU-027 and EU-028 were constructed in 1980. EU-022, EU-027, and EU-028 exhaust to stacks S-22, S-27 and S-28, respectively. These emission units have a combined maximum heat input capacity of 28.1 MMBtu/hr.
- (f) One (1) natural gas fired hot water unit, identified as EU-029, exhausting to stack S-29, with a maximum heat input capacity of 0.01 MMBtu/hr.

The following conditions shall be applicable:

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:
 - (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 15 minutes (60 readings in a 6-hour period 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.

2. Pursuant to 326 IAC 6-2-3 (Particulate Emission Limitations for Sources of Indirect Heating: Emission limitations for facilities specified in 326 IAC 6-2-1(c)), the PM emissions from Boilers EU-22, EU-27 and EU-28 shall not exceed 0.27 pound per million Btu heat input (lb/MMBtu). This limitation was calculated using the following equation:

$$Pt = \frac{(C) (a) (h)}{76.5 (Q^{0.75}) (N^{0.25})}$$

Where C = 50 μ/m^3
Q = total source capacity (MMBtu/hr)
N = number of stacks
a = 0.67
h = average stack height 10 feet

For these units, Q = 28.1 (MMBtu/hr) and N = 3.

This registration is the first air approval issued to this source. The source may operate according to 326 IAC 2-5.5.

An authorized individual shall provide an annual notice to the Office of Air Quality that the source is in operation and in compliance with this registration pursuant to 326 IAC 2-5.5-4(a)(3). The annual notice shall be submitted to:

**Compliance Data Section
Office of Air Quality
100 North Senate Avenue
Indianapolis, IN 46204**

no later than March 1 of each year, with the annual notice being submitted in the format attached.

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.

Sincerely,

Original signed by
Nysa L. James, Section Chief
Permits Branch
Office of Air Quality

NLJ/clb

cc: File - Kosciusko County
Kosciusko County Health Department
Air Compliance Section - Doyle Houser
IDEM North Regional Office
Permit Tracking – Cynthia Bymaster
Compliance Data Section
Office of Enforcement

Registration Annual Notification

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

Company Name:	Maple Leaf Farms, Inc.
Address:	9166 North 200 East
City:	Milford, Indiana 46542
Authorized individual:	Dan Harper
Phone #:	574-658-4121
Registration #:	085-22818-00107

I hereby certify that **Maple Leaf Farms, Inc.** is still in operation and is in compliance with the requirements of Registration **085-22818-00107**.

Name (typed):	Dan Harper
Title:	Corporate Manager Environmental Affairs
Signature:	
Date:	

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

Technical Support Document (TSD) for a Registration

Source Background and Description

Source Name:	Maple Leaf Farms, Inc.
Source Location:	9166 North 200 East, Milford, Indiana, 46542
County:	Kosciusko
SIC Code:	2015
Operation Permit No.:	085-22818-00107
Permit Reviewer:	Cynthia Bymaster

The Office of Air Quality (OAQ) has reviewed an application from Maple Leaf Farms, Inc. relating to the operation of an existing stationary poultry slaughtering and processing facility.

Unpermitted Emission Units and Pollution Control Equipment

The source consists of the following unpermitted emission units:

- (a) Thirteen (13) natural gas fired space heaters, identified as EU-001 through EU-011, EU-023 and EU-024; EU-001 through EU-011 and EU-023 and EU-024 were constructed in 1975 and exhaust to stacks S-1 through S-11, S-24 and S-25, respectively. EU-012 was constructed in 2005 and exhausts to S-12. These combined emission units have a maximum heat input capacity of 2.2 Million Btu/hr (MMBtu/hr).
- (b) Two (2) natural gas fired Fryers, identified as EU-012 and EU-013, exhausting to stacks S-12 and S-13 respectively, with a combined maximum heat input capacity of 2 MMBtu/hr.
- (c) Six (6) natural gas fired ovens, identified as EU-014 through EU-019, exhausting to stacks S-14 through S-19 respectively, with a combined maximum heat input capacity of 1.99 MMBtu/hr.
- (d) Five (5) natural gas fired Air Handler/Make-up Units, identified as EU-020, EU-021, EU-025, and EU-026, constructed in 2001 and exhausting to stacks S-20, S-21, S-25, and S-26 respectively. These emission units have a combined maximum heat input capacity of 6.8 MMBtu/hr.
- (e) Three (3) natural gas fired boilers, identified as EU-022, EU-027, and EU-028; EU-22 was constructed in 1975, while EU-027 and EU-028 were constructed in 1980. EU-022, EU-027, and EU-028 exhaust to stacks S-22, S-27 and S-28, respectively. These emission units have a combined maximum heat input capacity of 28.1 MMBtu/hr.
- (f) One (1) natural gas fired hot water unit, identified as EU-029, exhausting to stack S-29, with a maximum heat input capacity of 1.65 MMBtu/hr.

Enforcement Issue

- (a) IDEM is aware that equipment has been constructed (and/or operated) prior to receipt of the proper permit. The subject equipment is listed in this Technical Support Document under the condition entitled "Unpermitted Emission Units and Pollution Control Equipment."
- (b) IDEM is reviewing this matter and will take appropriate action. This proposed permit is intended to satisfy the requirements of the construction permit rules.

- (c) IDEM is aware that the source did not apply for a Registration in a timely manner. IDEM is reviewing this matter and will take appropriate action.

Stack Summary

Stack ID	Operation	Height (ft)	Diameter (ft)
S-1	Space Heater	10	0.833
S-2	Space Heater	10	0.833
S-3	Space Heater	10	0.833
S-4	Space Heater	10	0.833
S-5	Space Heater	10	0.833
S-6	Space Heater	10	0.833
S-7	Space Heater	10	0.833
S-8	Space Heater	10	0.833
S-9	Space Heater	10	0.833
S-10	Space Heater	10	0.833
S-11	Space Heater	10	0.833
S-12	Fryer	15	0.833
S-13	Fryer	15	0.833
S-14	Oven	15	0.833
S-15	Oven	15	0.833
S-16	Oven	15	0.833
S-17	Oven	15	0.833
S-18	Oven	15	0.833
S-19	Oven	15	0.833
S-20	Air Handler	20	2.5
S-21	Air Handler	10	0.833
S-22	Boiler	10	0.833
S-23	Space Heater	10	0.833
S-24	Space Heater	10	0.833

Recommendation

The staff recommends to the Commissioner that the construction and operation be approved. This recommendation is based on the following facts and conditions:

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 15, 2006, with additional information received on April 7, 2006.

Emission Calculations

The calculations submitted by the applicant have been verified and found to be accurate and correct. These calculations are provided in Appendix A of this document (pages 1 through 2).

Potential to Emit of the Source Before Controls

Pursuant to 326 IAC 2-1.1-1(16), Potential to Emit is defined as "the maximum capacity of a stationary source or emissions unit to emit any air pollutant under its physical and operational design. Any physical or operational limitation on the capacity of a source to emit an air pollutant, including air pollution control equipment and restrictions on hours of operation or type or amount of material combusted, stored, or processed shall be treated as part of its design if the limitation is enforceable by the U.S. EPA, the department, or the appropriate local air pollution control agency."

Pollutant	Potential to Emit (tons/yr)
PM	0.3
PM-2.5	negligible
PM-10	1.4
SO ₂	0.1
VOC	1.0
CO	15.2
NO _x	18.1

HAPs	Potential to Emit (tons/yr)
Benzene	3.799E-04
Dichlorobenzene	1.2E-03
Formaldehyde	1.357E-02
Hexane	3.256E-01
Toluene	6.150E-04
Lead	9.045E-05
Cadmium	1.99E-04
Chromium	2.533E-04
Manganese	6.874E-05
Nickel	3.799E-04
Total	3.42E-01

- (a) The potential to emit of pollutants are less than 25 tons per year but greater than 10 tons per year for NO_x. Therefore, the source is subject to the provisions of 326 IAC 2-5.5. A registration will be issued.
- (b) Fugitive Emissions
 Since this type of operation is not one of the twenty-eight (28) listed source categories under 326 IAC 2-2 and since there are no applicable New Source Performance Standards that were in effect on August 7, 1980, the fugitive particulate matter (PM) and volatile organic compound (VOC) emissions are not counted toward determination of PSD and Emission Offset applicability.

County Attainment Status

The source is located in Kosciusko County.

Pollutant	Status
PM-2.5	attainment
PM-10	attainment
SO ₂	attainment
NO ₂	attainment
1-hour Ozone	attainment
8-hour Ozone	attainment
CO	attainment
Lead	attainment

- (a) 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 emissions and NOx are considered when evaluating the rule applicability relating to ozone. Kosciusko County has been designated as attainment or unclassifiable for ozone. Therefore, VOC emissions and NOx were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2. See the State Rule Applicability for the source section.
- (b) Kosciusko 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 PM 2.5 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 surrogate for PM2.5 emissions. See the State Rule Applicability – Entire Source section.
- (c) Kosciusko County has been classified as attainment or unclassifiable for all other criteria pollutants. Therefore, these emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2. See the State Rule Applicability for the source section.
- (d) Fugitive Emissions
Since this type of operation is not one of the 28 listed source categories under 326 IAC 2-2 or 2-3 and since there are no applicable New Source Performance Standards that were in effect on August 7, 1980, the fugitive particulate matter (PM) and volatile organic compound (VOC) emissions are not counted toward determination of PSD and Emission Offset applicability.

Source Status

Existing Source PSD, Part 70, or FESOP Definition (emissions after controls, based on 8760 hours of operation per year at rated capacity and/or as otherwise limited):

Pollutant	Emissions (tons/yr)
PM	0.3
PM-10	1.4
SO ₂	0.1
VOC	1.0
CO	15.2
NO _x	18.1
Single HAP	negligible
Combination HAPs	negligible

- (a) This existing source is not a major stationary source because it is not one of the 28 listed source categories and it does not emit 250 tons per year or greater of any attainment regulated pollutants, or 100 tons per year or greater of any nonattainment regulated pollutants.

Part 70 Permit Determination

326 IAC 2-7 (Part 70 Permit Program)

This existing source is not subject to the Part 70 Permit requirements because the potential to emit (PTE) of:

- (a) each criteria pollutant is less than 100 tons per year,
- (b) a single hazardous air pollutant (HAP) is less than 10 tons per year, and

- (c) any combination of HAPs is less than 25 tons per year.

This is the first air approval issued to this source.

Federal Rule Applicability

- (a) There are no New Source Performance Standards (NSPS) (326 IAC 12 and 40 CFR Part 60) included in this registration.
- (b) Boiler EU-022, which was constructed in 1975, is not subject to the requirements of the New Source Performance Standard, 326 IAC 12 (40 CFR 60.40, Subpart D), because it has a maximum heat input capacity of less than 250 MMBtu/hr.
- (c) Boilers EU-027 and EU-028, which were constructed in 1980, are not subject to the New Source Performance Standard, 326 IAC 12, (40 CFR 60.40a, Subpart Da) because they are not electric utility steam generating units and they have a maximum heat input capacity of less than 250 MMBtu/hr.
- (d) There are no National Emission Standards for Hazardous Air Pollutants (NESHAP)(326 IAC 14, 20 and 40 CFR Part 61, 63) included in this permit.
- (e) This source is not subject to the requirements of the National Emission Standards for Hazardous Air Pollutants (NESHAP), Subpart DDDDD because it is not a major source of HAPs.

State Rule Applicability – Entire Source

326 IAC 2-2 (Prevention of Significant Deteriorations (PSD) Requirements)

This source is not subject to the requirements of 326 IAC 2-2 (PSD) because the potential to emit of all criteria pollutants is less than 250 tons per year and it is not one of 28 listed source categories.

326 IAC 2-4.1 (Major Sources of Hazardous Air Pollutants (HAP))

This source will emit less than 10 tons per year of a single HAP and less than 25 tons per year of a combination of HAPs. Therefore, 326 IAC 2-4.1 does not apply.

326 IAC 2-6 (Emission Reporting)

This source is located in Kosciusko County and is not required to have a permit under 326 IAC 2-7 and 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.

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 the permit:

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

State Rule Applicability – Individual Facilities

326 IAC 6-2 (Emissions Limitations)

This source is subject to 326 IAC 6-2-3(a) because the indirect heating facilities, Units EU-022 was constructed in 1975, and EU-027 and EU-028, were constructed in 1980. The particulate emissions from indirect heating facilities shall not exceed 0.27 lb/MMBtu.

This limitation was calculated using the following equation:

$$Pt = \frac{(C)(a)(h)}{76.5(Q^{0.75})(N^{0.25})}$$

Where C = 50 μ/m^3
Q = total source capacity (MMBtu/hr)
N = number of stacks
a = 0.67
h = average stack height 10 feet

For these units, Q = 28.1 (MMBtu/hr) and N = 3.

326 IAC 4-2 (Incinerators)

This source is not subject to 326 IAC 4-2 (Incinerators) because none of the combustion units meet the definition of incinerator in 326 IAC 1-2-34.

Conclusion

The operation of this existing stationary poultry slaughtering and processing facility shall be subject to the conditions of the Registration 085-22818-00107.