



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: October 2, 2009
RE: Maplehurst Bakeries, Inc. / 063-28023-00031
FROM: Matthew Stuckey, Deputy Branch Chief
Permits Branch
Office of Air Quality

Notice of Decision: Approval – Effective Immediately

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

If you wish to challenge this decision, IC 4-21.5-3-7 and IC 13-15-6-1(b) or IC 13-15-6-1(a) require 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.

For an **initial Title V Operating Permit**, a petition for administrative review must be submitted to the Office of Environmental Adjudication within **thirty (30)** days from the receipt of this notice provided under IC 13-15-5-3, pursuant to IC 13-15-6-1(b).

For a **Title V Operating Permit renewal**, a petition for administrative review must be submitted to the Office of Environmental Adjudication within **fifteen (15)** days from the receipt of this notice provided under IC 13-15-5-3, pursuant to IC 13-15-6-1(a).

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.

Pursuant to 326 IAC 2-7-18(d), any person may petition the U.S. EPA to object to the issuance of an initial Title V operating permit, permit renewal, or modification within sixty (60) days of the end of the forty-five (45) day EPA review period. Such an objection must be based only on issues that were raised with reasonable specificity during the public comment period, unless the petitioner demonstrates that it was impracticable to raise such issues, or if the grounds for such objection arose after the comment period.

To petition the U.S. EPA to object to the issuance of a Title V operating permit, contact:

U.S. Environmental Protection Agency
401 M Street
Washington, D.C. 20406

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.



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

Part 70 Operating Permit OFFICE OF AIR QUALITY

Maplehurst Bakeries, Inc.
50 Maplehurst Drive
Brownsburg, Indiana 46112

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

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

This permit is issued in accordance with 326 IAC 2 and 40 CFR Part 70 Appendix A and contains the conditions and provisions specified in 326 IAC 2-7 as required by 42 U.S.C. 7401, et. seq. (Clean Air Act as amended by the 1990 Clean Air Act Amendments), 40 CFR Part 70.6, IC 13-15 and IC 13-17.

Operation Permit No.: T063-28023-00031	
Issued by:  Donald F. Robin, P.E., Section Chief Permits Branch Office of Air Quality	Issuance Date: Oct. 2, 2009 Expiration Date: Oct. 2, 2014

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SECTION A SOURCE SUMMARY

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

A.1 General Information [326 IAC 2-7-4(c)][326 IAC 2-7-5(15)][326 IAC 2-7-1(22)]

The Permittee owns and operates a stationary commercial bakery operation.

Source Address:	50 Maplehurst Drive, Brownsburg, Indiana 46112
Mailing Address:	50 Maplehurst Drive, Brownsburg, Indiana 46112
General Source Phone Number:	317-858-9000
SIC Code:	2051
County Location:	Hendricks
Source Location Status:	Nonattainment for PM2.5 standard Attainment for all other criteria pollutants
Source Status:	Part 70 Operating Permit Program Minor Source, under PSD and Emission Offset Rules Minor Source, Section 112 of the Clean Air Act Not 1 of 28 Source Categories

A.2 Emission Units and Pollution Control Equipment Summary [326 IAC 2-7-4(c)(3)][326 IAC 2-7-5(15)]

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

- (a) Six (6) natural gas fired fryers identified as Moline I, Moline II, Moline III, Moline IV, Moline V and Moline VI with maximum capacities of 3000 pounds per hour of premix dough and water, which were installed in July 1993, December 1996, December 1998, February 2001, February 2002, February 2002 and February 2002, respectively, and have rated capacities of 1.4, 1.4, 1.4, 0.26, 0.84 and 0.84 MMBtu per hour, respectively, exhausting to Stacks 1, 2, 3, 7, 5, and 4.
- (b) One (1) natural gas fired fryer identified as Moline VII with a maximum capacity of 3000 pounds per hour of premix cake batter and water, installed in October 2008 and have a rated heat capacity of 1.3 MMBtu per hour, exhausting to Stacks 9 and 10.
- (c) One (1) dry ingredient storage and conveyance system, including, but not limited to, pneumatic conveyance process equipment and piping, storage silos, use bins, weigh scale hoppers, ingredient mixers, transfer equipment, other process equipment and piping, and associated pollution control equipment, installed in April 2002, with a maximum throughput of 16,500 pounds of dry ingredients per hour. The pneumatic conveyance system includes the following emission units:
 - (1) Three (3) flour storage silos, identified as emission units EU01, EU02 and EU03, installed in December 1995, May 2001 and April 2002, respectively, with EU01 and EU02 each equipped with a baghouse and EU03 tied to one (1) central dust collector unit for control of particulate matter emissions, and exhausting outside.
 - (2) One (1) sugar storage silo, identified as emission unit EU04, installed in April 2002, tied to one (1) central dust collector unit for control of particulate matter emissions, and exhausting outside.
 - (3) One (1) dextrose storage silo identified as emission unit EU05 installed in April 2002, tied to one (1) central dust collector unit for control of particulate matter emissions, and exhausting outside.

- (4) Thirteen (13) use bins, identified as emission units EU06 through EU18 installed in 2002, with each use bin tied to one (1) central dust collector unit for control of particulate matter emissions, exhausting outside.
- (5) Fifteen (15) dry ingredient scale hoppers, identified as emission units EU19 through EU33 installed in 2002, with each scale hopper equipped with one (1) filter unit for control of particulate matter emissions, exhausting outside.

A.3 Insignificant Activities [326 IAC 2-7-1(21)] [326 IAC 2-7-4(c)] [326 IAC 2-7-5(15)]

This stationary source also includes the following insignificant activities as defined in 326 IAC 2-7-1(21):

Natural gas fired combustion sources with heat input equal to or less than ten million (10,000,000) Btu per hour, including:

- (a) One (1) natural gas fired boiler identified as Ajax, installed in September 2000, with rated capacity of 6.3 MMBtu per hour exhausting to the Stack 6. [326 IAC 6-2]
- (b) One (1) 6.3 MMBtu/hr natural gas fired boiler, identified as Ajax Boiler #2, installed in June 2003, with emissions exhausted through Stack 8. [326 IAC 6-2]
- (c) Five (5) natural gas fueled space heaters, identified as EU34, EU35, EU36, EU37 and EU40, with two (2) space heaters having a heat input capacity of 0.040 MMBtu per hour and three (3) space heaters having a heat input capacity of 0.030 MMBtu per hour, each installed in June 2005, except EU37 which was installed in October 1994.
- (d) Two (2) natural gas fueled revert ovens, identified as EU38 and EU72, installed in June 2005, with heat input capacities of 0.170 MMBtu per hour and 0.177 MMBtu per hour, respectively.
- (e) Two (2) natural gas fueled water heaters, identified as EU39 and EU48, installed in June 2005, with heat input capacities of 0.199 MMBtu per hour and 0.370 MMBtu per hour, respectively. [326 IAC 6-2]
- (f) Eight (8) natural gas fueled, makeup air units identified as EU41 through EU47 and EU49, each installed in June 2005, except EU47 which was installed in 2001, with heat input capacities that range from 0.225 MMBtu per hour to 4.125 MMBtu per hour.
- (g) Twenty Two (22) natural gas fueled rooftop heating/air conditioning units, identified as EU50 through EU71, installed between March 1994 and October 2008, with heat input capacities that range from 0.199 MMBtu per hour to 0.370 MMBtu per hour.

A.4 Part 70 Permit Applicability [326 IAC 2-7-2]

This stationary source is required to have a Part 70 permit by 326 IAC 2-7-2 (Applicability) because:

- (a) It is a major source, as defined in 326 IAC 2-7-1(22);
- (b) It is a source in a source category designated by the United States Environmental Protection Agency (U.S. EPA) under 40 CFR 70.3 (Part 70 - Applicability).

SECTION B GENERAL CONDITIONS

B.1 Definitions [326 IAC 2-7-1]

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

B.2 Permit Term [326 IAC 2-7-5(2)][326 IAC 2-1.1-9.5][326 IAC 2-7-4(a)(1)(D)][IC 13-15-3-6(a)]

(a) This permit, T063-28023-00031, is issued for a fixed term of five (5) years from the issuance date of this permit, as determined in accordance with IC 4-21.5-3-5(f) and IC 13-15-5-3. Subsequent revisions, modifications, or amendments of this permit do not affect the expiration date of this permit.

(b) If IDEM, OAQ, upon receiving a timely and complete renewal permit application, fails to issue or deny the permit renewal prior to the expiration date of this permit, this existing permit shall not expire and all terms and conditions shall continue in effect, including any permit shield provided in 326 IAC 2-7-15, until the renewal permit has been issued or denied.

B.3 Term of Conditions [326 IAC 2-1.1-9.5]

Notwithstanding the permit term of a permit to construct, a permit to operate, or a permit modification, any condition established in a permit issued pursuant to a permitting program approved in the state implementation plan shall remain in effect until:

(a) the condition is modified in a subsequent permit action pursuant to Title I of the Clean Air Act; or

(b) the emission unit to which the condition pertains permanently ceases operation.

B.4 Enforceability [326 IAC 2-7-7] [IC 13-17-12]

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

B.5 Severability [326 IAC 2-7-5(5)]

The provisions of this permit are severable; a determination that any portion of this permit is invalid shall not affect the validity of the remainder of the permit.

B.6 Property Rights or Exclusive Privilege [326 IAC 2-7-5(6)(D)]

This permit does not convey any property rights of any sort or any exclusive privilege.

B.7 Duty to Provide Information [326 IAC 2-7-5(6)(E)]

(a) The Permittee shall furnish to IDEM, OAQ, within a reasonable time, any information that IDEM, OAQ may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. The submittal by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34). Upon request, the Permittee shall also furnish to IDEM, OAQ copies of records required to be kept by this permit.

(b) For information furnished by the Permittee to IDEM, OAQ, the Permittee may include a claim of confidentiality in accordance with 326 IAC 17.1. When furnishing copies of requested records directly to U. S. EPA, the Permittee may assert a claim of confidentiality in accordance with 40 CFR 2, Subpart B.

B.8 Certification [326 IAC 2-7-4(f)][326 IAC 2-7-6(1)][326 IAC 2-7-5(3)(C)]

- (a) Where specifically designated by this permit or required by an applicable requirement, any application form, report, or compliance certification submitted shall contain certification by the "responsible official" of truth, accuracy, and completeness. This certification shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.
- (b) One (1) certification shall be included, using the attached Certification Form, with each submittal requiring certification. One (1) certification may cover multiple forms in one (1) submittal.
- (c) A "responsible official" is defined at 326 IAC 2-7-1(34).

B.9 Annual Compliance Certification [326 IAC 2-7-6(5)]

- (a) The Permittee shall annually submit a compliance certification report which addresses the status of the source's compliance with the terms and conditions contained in this permit, including emission limitations, standards, or work practices. The initial certification shall cover the time period from the date of final permit issuance through December 31 of the same year. All subsequent certifications shall cover the time period from January 1 to December 31 of the previous year, and shall be submitted no later than July 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, Indiana 46204-2251

and

United States Environmental Protection Agency, Region V
Air and Radiation Division, Air Enforcement Branch - Indiana (AE-17J)
77 West Jackson Boulevard
Chicago, Illinois 60604-3590

- (b) The annual compliance certification report required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ, on or before the date it is due.
- (c) The annual compliance certification report shall include the following:
 - (1) The appropriate identification of each term or condition of this permit that is the basis of the certification;
 - (2) The compliance status;
 - (3) Whether compliance was continuous or intermittent;
 - (4) The methods used for determining the compliance status of the source, currently and over the reporting period consistent with 326 IAC 2-7-5(3); and
 - (5) Such other facts, as specified in Sections D of this permit, as IDEM, OAQ may require to determine the compliance status of the source.

The submittal by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

B.10 Preventive Maintenance Plan [326 IAC 2-7-5(1),(3) and (13)][326 IAC 2-7-6(1) and (6)][326 IAC 1-6-3]

(a) If required by specific condition(s) in Section D of this permit, the Permittee shall prepare and maintain Preventive Maintenance Plans (PMPs) within ninety (90) days after issuance of this permit or ninety (90) days after initial start-up, whichever is later, including the following information on each facility:

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

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

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

The PMP extension notification does not require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

- (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 Permittee to revise its PMPs whenever lack of proper maintenance causes or is the primary contributor to an exceedance of any limitation on emissions or potential to emit. The PMPs do not require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).
- (c) To the extent the Permittee is required by 40 CFR Part 60/63 to have an Operation Maintenance, and Monitoring (OMM) Plan for a unit, such Plan is deemed to satisfy the PMP requirements of 326 IAC 1-6-3 for that unit.

B.11 Emergency Provisions [326 IAC 2-7-16]

- (a) An emergency, as defined in 326 IAC 2-7-1(12), is not an affirmative defense for an action brought for noncompliance with a federal or state health-based emission limitation.
- (b) An emergency, as defined in 326 IAC 2-7-1(12), constitutes an affirmative defense to an action brought for noncompliance with a technology-based emission limitation if the affirmative defense of an emergency is demonstrated through properly signed, contemporaneous operating logs or other relevant evidence that describe the following:
 - (1) An emergency occurred and the Permittee can, to the extent possible, identify the causes of the emergency;
 - (2) The permitted facility was at the time being properly operated;

- (3) During the period of an emergency, the Permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards or other requirements in this permit;
- (4) For each emergency lasting one (1) hour or more, the Permittee notified IDEM, OAQ, within four (4) daytime business hours after the beginning of the emergency, or after the emergency was discovered or reasonably should have been discovered;

Telephone Number: 1-800-451-6027 (ask for Office of Air Quality, Compliance and Enforcement Branch), or
Telephone Number: 317-233-0178 (ask for Compliance and Enforcement Branch)
Facsimile Number: 317-233-6865

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

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

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

The notice fulfills the requirement of 326 IAC 2-7-5(3)(C)(ii) and must contain the following:

- (A) A description of the emergency;
- (B) Any steps taken to mitigate the emissions; and
- (C) Corrective actions taken.

The notification which shall be submitted by the Permittee does not require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

- (6) The Permittee immediately took all reasonable steps to correct the emergency.
- (c) In any enforcement proceeding, the Permittee seeking to establish the occurrence of an emergency has the burden of proof.
- (d) This emergency provision supersedes 326 IAC 1-6 (Malfunctions). This permit condition is in addition to any emergency or upset provision contained in any applicable requirement.
- (e) The Permittee seeking to establish the occurrence of an emergency shall make records available upon request to ensure that failure to implement a PMP did not cause or contribute to an exceedance of any limitations on emissions. However, IDEM, OAQ may require that the Preventive Maintenance Plans required under 326 IAC 2-7-4(c)(9) be revised in response to an emergency.

- (f) Failure to notify IDEM, OAQ by telephone or facsimile of an emergency lasting more than one (1) hour in accordance with (b)(4) and (5) of this condition shall constitute a violation of 326 IAC 2-7 and any other applicable rules.
- (g) If the emergency situation causes a deviation from a technology-based limit, the Permittee may continue to operate the affected emitting facilities during the emergency provided the Permittee immediately takes all reasonable steps to correct the emergency and minimize emissions.
- (h) The Permittee shall include all emergencies in the Quarterly Deviation and Compliance Monitoring Report. Any emergencies that have been previously reported pursuant to paragraph (b)(5) of this condition and certified by a "responsible official " need only referenced by the date of the original report.

B.12 Permit Shield [326 IAC 2-7-15][326 IAC 2-7-20][326 IAC 2-7-12]

- (a) Pursuant to 326 IAC 2-7-15, the Permittee has been granted a permit shield. The permit shield provides that compliance with the conditions of this permit shall be deemed compliance with any applicable requirements as of the date of permit issuance, provided that either the applicable requirements are included and specifically identified in this permit or the permit contains an explicit determination or concise summary of a determination that other specifically identified requirements are not applicable. The Indiana statutes from IC 13 and rules from 326 IAC, referenced in conditions in this permit, are those applicable at the time the permit was issued. The issuance or possession of this permit shall not alone constitute a defense against an alleged violation of any law, regulation or standard, except for the requirement to obtain a Part 70 permit under 326 IAC 2-7 or for applicable requirements for which a permit shield has been granted.

This permit shield does not extend to applicable requirements which are promulgated after the date of issuance of this permit unless this permit has been modified to reflect such new requirements.

- (b) If, after issuance of this permit, it is determined that the permit is in nonconformance with an applicable requirement that applied to the source on the date of permit issuance, IDEM, OAQ, shall immediately take steps to reopen and revise this permit and issue a compliance order to the Permittee to ensure expeditious compliance with the applicable requirement until the permit is reissued. The permit shield shall continue in effect so long as the Permittee is in compliance with the compliance order.
- (c) No permit shield shall apply to any permit term or condition that is determined after issuance of this permit to have been based on erroneous information supplied in the permit application. Erroneous information means information that the Permittee knew to be false, or in the exercise of reasonable care should have been known to be false, at the time the information was submitted.
- (d) Nothing in 326 IAC 2-7-15 or in this permit shall alter or affect the following:
 - (1) The provisions of Section 303 of the Clean Air Act (emergency orders), including the authority of the U.S. EPA under Section 303 of the Clean Air Act;
 - (2) The liability of the Permittee for any violation of applicable requirements prior to or at the time of this permit's issuance;
 - (3) The applicable requirements of the acid rain program, consistent with Section 408(a) of the Clean Air Act; and
 - (4) The ability of U.S. EPA to obtain information from the Permittee under Section 114 of the Clean Air Act.

- (e) This permit shield is not applicable to any change made under 326 IAC 2-7-20(b)(2) (Sections 502(b)(10) of the Clean Air Act changes) and 326 IAC 2-7-20(c)(2) (trading based on State Implementation Plan (SIP) provisions).
- (f) This permit shield is not applicable to modifications eligible for group processing until after IDEM, OAQ, has issued the modifications. [326 IAC 2-7-12(c)(7)]
- (g) This permit shield is not applicable to minor Part 70 permit modifications until after IDEM, OAQ, has issued the modification. [326 IAC 2-7-12(b)(8)]

B.13 Prior Permits Superseded [326 IAC 2-1.1-9.5][326 IAC 2-7-10.5]

- (a) All terms and conditions of permits established prior to T063-28023-00031 and issued pursuant to permitting programs approved into the state implementation plan have been either:
 - (1) incorporated as originally stated,
 - (2) revised under 326 IAC 2-7-10.5, or
 - (3) deleted under 326 IAC 2-7-10.5.
- (b) Provided that all terms and conditions are accurately reflected in this permit, all previous registrations and permits are superseded by this Part 70 operating permit.

B.14 Termination of Right to Operate [326 IAC 2-7-10][326 IAC 2-7-4(a)]

The Permittee's right to operate this source terminates with the expiration of this permit unless a timely and complete renewal application is submitted at least nine (9) months prior to the date of expiration of the source's existing permit, consistent with 326 IAC 2-7-3 and 326 IAC 2-7-4(a).

B.15 Deviations from Permit Requirements and Conditions [326 IAC 2-7-5(3)(C)(ii)]

- (a) Deviations from any permit requirements (for emergencies see Section B - Emergency Provisions), the probable cause of such deviations, and any response steps or preventive measures taken shall be reported to:

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

using the attached Quarterly Deviation and Compliance Monitoring Report, or its equivalent. A deviation required to be reported pursuant to an applicable requirement that exists independent of this permit, shall be reported according to the schedule stated in the applicable requirement and does not need to be included in this report.

The Quarterly Deviation and Compliance Monitoring Report do require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

- (b) A deviation is an exceedance of a permit limitation or a failure to comply with a requirement of the permit.

B.16 Permit Modification, Reopening, Revocation and Reissuance, or Termination
[326 IAC 2-7-5(6)(C)][326 IAC 2-7-8(a)][326 IAC 2-7-9]

- (a) This permit may be modified, reopened, revoked and reissued, or terminated for cause. The filing of a request by the Permittee for a Part 70 Operating Permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any condition of this permit. [326 IAC 2-7-5(6)(C)] The notification by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).
- (b) This permit shall be reopened and revised under any of the circumstances listed in IC 13-15-7-2 or if IDEM, OAQ determines any of the following:
 - (1) That this permit contains a material mistake.
 - (2) That inaccurate statements were made in establishing the emissions standards or other terms or conditions.
 - (3) That this permit must be revised or revoked to assure compliance with an applicable requirement. [326 IAC 2-7-9(a)(3)]
- (c) Proceedings by IDEM, OAQ to reopen and revise this permit shall follow the same procedures as apply to initial permit issuance and shall affect only those parts of this permit for which cause to reopen exists. Such reopening and revision shall be made as expeditiously as practicable. [326 IAC 2-7-9(b)]
- (d) The reopening and revision of this permit, under 326 IAC 2-7-9(a), shall not be initiated before notice of such intent is provided to the Permittee by IDEM, OAQ at least thirty (30) days in advance of the date this permit is to be reopened, except that IDEM, OAQ may provide a shorter time period in the case of an emergency. [326 IAC 2-7-9(c)]

B.17 Permit Renewal [326 IAC 2-7-3][326 IAC 2-7-4][326 IAC 2-7-8(e)]

- (a) The application for renewal shall be submitted using the application form or forms prescribed by IDEM, OAQ and shall include the information specified in 326 IAC 2-7-4. Such information shall be included in the application for each emission unit at this source, except those emission units included on the trivial or insignificant activities list contained in 326 IAC 2-7-1(21) and 326 IAC 2-7-1(40). The renewal application does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

Request for renewal shall be submitted to:

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

- (b) A timely renewal application is one that is:
 - (1) Submitted at least nine (9) months prior to the date of the expiration of this permit; and
 - (2) If the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ on or before the date it is due.

- (c) If the Permittee submits a timely and complete application for renewal of this permit, the source's failure to have a permit is not a violation of 326 IAC 2-7 until IDEM, OAQ takes final action on the renewal application, except that this protection shall cease to apply if, subsequent to the completeness determination, the Permittee fails to submit by the deadline specified in writing by IDEM, OAQ any additional information identified as being needed to process the application.

B.18 Permit Amendment or Modification [326 IAC 2-7-11][326 IAC 2-7-12]

- (a) Permit amendments and modifications are governed by the requirements of 326 IAC 2-7-11 or 326 IAC 2-7-12 whenever the Permittee seeks to amend or modify this permit.

- (b) Any application requesting an amendment or modification of this permit shall be submitted to:

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

Any such application shall be certified by the "responsible official" as defined by 326 IAC 2-7-1(34).

- (c) The Permittee may implement administrative amendment changes addressed in the request for an administrative amendment immediately upon submittal of the request. [326 IAC 2-7-11(c)(3)]

B.19 Permit Revision Under Economic Incentives and Other Programs [326 IAC 2-7-5(8)][326 IAC 2-7-12(b)(2)]

- (a) No Part 70 permit revision shall be required under any approved economic incentives, marketable Part 70 permits, emissions trading, and other similar programs or processes for changes that are provided for in a Part 70 permit.

- (b) Notwithstanding 326 IAC 2-7-12(b)(1) and 326 IAC 2-7-12(c)(1), minor Part 70 permit modification procedures may be used for Part 70 modifications involving the use of economic incentives, marketable Part 70 permits, emissions trading, and other similar approaches to the extent that such minor Part 70 permit modification procedures are explicitly provided for in the applicable State Implementation Plan (SIP) or in applicable requirements promulgated or approved by the U.S. EPA.

B.20 Operational Flexibility [326 IAC 2-7-20][326 IAC 2-7-10.5]

- (a) The Permittee may make any change or changes at the source that are described in 326 IAC 2-7-20(b),(c), or (e) without a prior permit revision, if each of the following conditions is met:

- (1) The changes are not modifications under any provision of Title I of the Clean Air Act;
- (2) Any preconstruction approval required by 326 IAC 2-7-10.5 has been obtained;
- (3) The changes do not result in emissions which exceed the limitations provided in this permit (whether expressed herein as a rate of emissions or in terms of total emissions);

- (4) The Permittee notifies the:

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

and

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

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

- (5) The Permittee maintains records on-site, on a rolling five (5) year basis, which document all such changes and emission trades that are subject to 326 IAC 2-7-20(b),(c), or (e). The Permittee shall make such records available, upon reasonable request, for public review.

Such records shall consist of all information required to be submitted to IDEM, OAQ in the notices specified in 326 IAC 2-7-20(b)(1), (c)(1), and (e)(2).

- (b) The Permittee may make Section 502(b)(10) of the Clean Air Act changes (this term is defined at 326 IAC 2-7-1(36)) without a permit revision, subject to the constraint of 326 IAC 2-7-20(a). For each such Section 502(b)(10) of the Clean Air Act change, the required written notification shall include the following:

- (1) A brief description of the change within the source;
- (2) The date on which the change will occur;
- (3) Any change in emissions; and
- (4) Any permit term or condition that is no longer applicable as a result of the change.

The notification which shall be submitted is not considered an application form, report or compliance certification. Therefore, the notification by the Permittee does not require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

- (c) Emission Trades [326 IAC 2-7-20(c)]
The Permittee may trade emissions increases and decreases at the source, where the applicable SIP provides for such emission trades without requiring a permit revision, subject to the constraints of Section (a) of this condition and those in 326 IAC 2-7-20(c).
- (d) Alternative Operating Scenarios [326 IAC 2-7-20(d)]
The Permittee may make changes at the source within the range of alternative operating scenarios that are described in the terms and conditions of this permit in accordance with 326 IAC 2-7-5(9). No prior notification of IDEM, OAQ, or U.S. EPA is required.
- (e) Backup fuel switches specifically addressed in, and limited under, Section D of this permit shall not be considered alternative operating scenarios. Therefore, the notification requirements of part (a) of this condition do not apply.

B.21 Source Modification Requirement [326 IAC 2-7-10.5]

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

B.22 Inspection and Entry [326 IAC 2-7-6][IC 13-14-2-2][IC 13-30-3-1][IC 13-17-3-2]

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

- (a) Enter upon the Permittee's premises where a Part 70 source is located, or emissions related activity is conducted, or where records must be kept under the conditions of this permit;
- (b) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, have access to and copy any records that must be kept under the conditions of this permit;
- (c) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, inspect any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit;
- (d) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, sample or monitor substances or parameters for the purpose of assuring compliance with this permit or applicable requirements; and
- (e) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, utilizes any photographic, recording, testing, monitoring, or other equipment for the purpose of assuring compliance with this permit or applicable requirements.

B.23 Transfer of Ownership or Operational Control [326 IAC 2-7-11]

- (a) The Permittee must comply with the requirements of 326 IAC 2-7-11 whenever the Permittee seeks to change the ownership or operational control of the source and no other change in the permit is necessary.
- (b) Any application requesting a change in the ownership or operational control of the source shall contain a written agreement containing a specific date for transfer of permit responsibility, coverage and liability between the current and new Permittee. The application shall be submitted to:

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

The application which shall be submitted by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

- (c) The Permittee may implement administrative amendment changes addressed in the request for an administrative amendment immediately upon submittal of the request. [326 IAC 2-7-11(c)(3)]

B.24 Annual Fee Payment [326 IAC 2-7-19] [326 IAC 2-7-5(7)][326 IAC 2-1.1-7]

- (a) The Permittee shall pay annual fees to IDEM, OAQ within thirty (30) calendar days of receipt of a billing. Pursuant to 326 IAC 2-7-19(b), if the Permittee does not receive a bill from IDEM, OAQ the applicable fee is due April 1 of each year.
- (b) Except as provided in 326 IAC 2-7-19(e), failure to pay may result in administrative enforcement action or revocation of this permit.
- (c) The Permittee may call the following telephone numbers: 1-800-451-6027 or 317-233-4230 (ask for OAQ, Billing, Licensing, and Training Section), to determine the appropriate permit fee.

B.25 Credible Evidence [326 IAC 2-7-5(3)][326 IAC 2-7-6][62 FR 8314] [326 IAC 1-1-6]

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

SECTION C SOURCE OPERATION CONDITIONS

Entire Source

Emission Limitations and Standards [326 IAC 2-7-5(1)]

C.1 Particulate Emission Limitations For Processes with Process Weight Rates Less Than One Hundred (100) Pounds per Hour [326 IAC 6-3-2]

Pursuant to 326 IAC 6-3-2(e)(2), particulate emissions from any process not exempt under 326 IAC 6-3-1(b) or (c) which has a maximum process weight rate less than 100 pounds per hour and the methods in 326 IAC 6-3-2(b) through (d) do not apply shall not exceed 0.551 pounds per hour.

C.2 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 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.

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

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

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

The Permittee shall not operate an incinerator or incinerate any waste or refuse except as provided in 326 IAC 4-2 and 326 IAC 9-1-2.

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

The Permittee shall not allow fugitive dust to escape beyond the property line or boundaries of the property, right-of-way, or easement on which the source is located, in a manner that would violate 326 IAC 6-4 (Fugitive Dust Emissions). 326 IAC 6-4-2(4) is not federally enforceable.

C.6 Fugitive Particulate Matter Emission Limitations [326 IAC 6-5]

Pursuant to 326 IAC 6-5 (Fugitive Particulate Matter Emission Limitations), fugitive particulate matter emissions shall be controlled according to the Fugitive Dust Control Plan in Attachment A. The provisions of 326 IAC 6-5 are not federally enforceable.

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

- (a) Notification requirements apply to each owner or operator. If the combined amount of regulated asbestos containing material (RACM) to be stripped, removed or disturbed is at least 260 linear feet on pipes or 160 square feet on other facility components, or at least thirty-five (35) cubic feet on all facility components, then the notification requirements of 326 IAC 14-10-3 are mandatory. All demolition projects require notification whether or not asbestos is present.

- (b) The Permittee shall ensure that a written notification is sent on a form provided by the Commissioner at least ten (10) working days before asbestos stripping or removal work or before demolition begins, per 326 IAC 14-10-3, and shall update such notice as necessary, including, but not limited to the following:
 - (1) When the amount of affected asbestos containing material increases or decreases by at least twenty percent (20%); or
 - (2) If there is a change in the following:
 - (A) Asbestos removal or demolition start date;
 - (B) Removal or demolition contractor; or
 - (C) Waste disposal site.
- (c) The Permittee shall ensure that the notice is postmarked or delivered according to the guidelines set forth in 326 IAC 14-10-3(2).
- (d) The notice to be submitted shall include the information enumerated in 326 IAC 14-10-3(3).

All required notifications shall be submitted to:

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

The notice shall include a signed certification from the owner or operator that the information provided in this notification is correct and that only Indiana licensed workers and project supervisors will be used to implement the asbestos removal project. The notifications do not require a certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

- (e) **Procedures for Asbestos Emission Control**
The Permittee shall comply with the applicable emission control procedures in 326 IAC 14-10-4 and 40 CFR 61.145(c). Per 326 IAC 14-10-1, emission control requirements are applicable for any removal or disturbance of RACM greater than three (3) linear feet on pipes or three (3) square feet on any other facility components or a total of at least 0.75 cubic feet on all facility components.
- (f) **Demolition and Renovation**
The Permittee shall thoroughly inspect the affected facility or part of the facility where the demolition or renovation will occur for the presence of asbestos pursuant to 40 CFR 61.145(a).
- (g) **Indiana Licensed Asbestos Inspector**
The Permittee shall comply with 326 IAC 14-10-1(a) that requires the owner or operator, prior to a renovation/demolition, to use an Indiana Licensed Asbestos Inspector to thoroughly inspect the affected portion of the facility for the presence of asbestos. The requirement to use an Indiana Licensed Asbestos inspector is not federally enforceable.

Testing Requirements [326 IAC 2-7-6(1)]

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

- (a) All testing shall be performed according to the provisions of 326 IAC 3-6 (Source Sampling Procedures), except as provided elsewhere in this permit, utilizing any applicable procedures and analysis methods specified in 40 CFR 51, 40 CFR 60, 40 CFR 61, 40 CFR 63, 40 CFR 75, or other procedures approved by IDEM, OAQ.

A test protocol, except as provided elsewhere in this permit, shall be submitted to:

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

no later than thirty-five (35) days prior to the intended test date. The protocol submitted by the Permittee does not require certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

- (b) The Permittee shall notify IDEM, OAQ of the actual test date at least fourteen (14) days prior to the actual test date. The notification submitted by the Permittee does not require certification by the "responsible official" as defined by 326 IAC 2-7-1(34).
- (c) Pursuant to 326 IAC 3-6-4(b), all test reports must be received by IDEM, OAQ not later than forty-five (45) days after the completion of the testing. An extension may be granted by IDEM, OAQ if the Permittee submits to IDEM, OAQ a reasonable written explanation not later than five (5) days prior to the end of the initial forty-five (45) day period.

Compliance Requirements [326 IAC 2-1.1-11]

C.9 Compliance Requirements [326 IAC 2-1.1-11]

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

Compliance Monitoring Requirements [326 IAC 2-7-5(1)][326 IAC 2-7-6(1)]

C.10 Compliance Monitoring [326 IAC 2-7-5(3)][326 IAC 2-7-6(1)]

Unless otherwise specified in this permit, all monitoring and record keeping requirements not already legally required shall be implemented within ninety (90) days of permit issuance or ninety (90) days of initial start-up, whichever is later. If required by Section D, the Permittee shall be responsible for installing any necessary equipment and initiating any required monitoring related to that equipment. If due to circumstances beyond its control, that equipment cannot be installed and operated within ninety (90) days, the Permittee may extend the compliance schedule related to the equipment for an additional ninety (90) days provided the Permittee notifies:

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

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

The notification which shall be submitted by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

Unless otherwise specified in the approval for the new emission unit(s), compliance monitoring for new emission units or emission units added through a source modification shall be implemented when operation begins.

C.11 Monitoring Methods [326 IAC 3] [40 CFR 60] [40 CFR 63]

Any monitoring or testing required by Section D of this permit shall be performed according to the provisions of 326 IAC 3, 40 CFR 60, Appendix A, 40 CFR 60, Appendix B, 40 CFR 63, or other approved methods as specified in this permit.

C.12 Instrument Specifications [326 IAC 2-1.1-11] [326 IAC 2-7-5(3)] [326 IAC 2-7-6(1)]

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

Corrective Actions and Response Steps [326 IAC 2-7-5][326 IAC 2-7-6]

C.13 Emergency Reduction Plans [326 IAC 1-5-2] [326 IAC 1-5-3]

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

- (a) The Permittee shall prepare written emergency reduction plans (ERPs) consistent with safe operating procedures.
- (b) These ERPs shall be submitted for approval to:

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

within ninety (90) days after the date of issuance of this permit.

The ERP does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).
- (c) If the ERP is disapproved by IDEM, OAQ, the Permittee shall have an additional thirty (30) days to resolve the differences and submit an approvable ERP.
- (d) These ERPs shall state those actions that will be taken, when each episode level is declared, to reduce or eliminate emissions of the appropriate air pollutants.
- (e) Said ERPs shall also identify the sources of air pollutants, the approximate amount of reduction of the pollutants, and a brief description of the manner in which the reduction will be achieved.
- (f) Upon direct notification by IDEM, OAQ that a specific air pollution episode level is in effect, the Permittee shall immediately put into effect the actions stipulated in the approved ERP for the appropriate episode level. [326 IAC 1-5-3]

C.14 Risk Management Plan [326 IAC 2-7-5(12)] [40 CFR 68]

If a regulated substance, as defined in 40 CFR 68, is present at a source in more than a threshold quantity, the Permittee must comply with the applicable requirements of 40 CFR 68.

C.15 Response to Excursions or Exceedances [326 IAC 2-7-5] [326 IAC 2-7-6]

- (a) Upon detecting an excursion or exceedance, the Permittee shall restore operation of the emissions unit (including any control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions.
- (b) The response shall include minimizing the period of any startup, shutdown or malfunction and taking any necessary corrective actions to restore normal operation and prevent the likely recurrence of the cause of an excursion or exceedance (other than those caused by excused startup or shutdown conditions). Corrective actions may include, but are not limited to, the following:
 - (1) initial inspection and evaluation;
 - (2) recording that operations returned to normal without operator action (such as through response by a computerized distribution control system); or
 - (3) any necessary follow-up actions to return operation to within the indicator range, designated condition, or below the applicable emission limitation or standard, as applicable.
- (c) A determination of whether the Permittee has used acceptable procedures in response to an excursion or exceedance will be based on information available, which may include, but is not limited to, the following:
 - (1) monitoring results;
 - (2) review of operation and maintenance procedures and records; and/or
 - (3) inspection of the control device, associated capture system, and the process.
- (d) Failure to take reasonable response steps shall be considered a deviation from the permit.
- (e) The Permittee shall maintain the following records:
 - (1) monitoring data;
 - (2) monitor performance data, if applicable; and
 - (3) corrective actions taken.

C.16 Actions Related to Noncompliance Demonstrated by a Stack Test [326 IAC 2-7-5][326 IAC 2-7-6]

- (a) When the results of a stack test performed in conformance with Section C - Performance Testing, of this permit exceed the level specified in any condition of this permit, the Permittee shall take appropriate response actions. The Permittee shall submit a description of these response actions to IDEM, OAQ, within thirty (30) days of receipt of the test results. The Permittee shall take appropriate action to minimize excess emissions from the affected facility while the response actions are being implemented.
- (b) A retest to demonstrate compliance shall be performed within one hundred twenty (120) days of receipt of the original test results. Should the Permittee demonstrate to IDEM, OAQ that retesting in one hundred twenty (120) days is not practicable, IDEM, OAQ may extend the retesting deadline.

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

The response action documents submitted pursuant to this condition do require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

Record Keeping and Reporting Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-19]

C.17 Emission Statement [326 IAC 2-7-5(3)(C)(iii)][326 IAC 2-7-5(7)][326 IAC 2-7-19(c)][326 IAC 2-6]

- (a) Pursuant to 326 IAC 2-6-3(b)(2), starting in 2005 and every three (3) years thereafter, the Permittee shall submit by July 1 an emission statement covering the previous calendar year. The emission statement shall contain, at a minimum, the information specified in 326 IAC 2-6-4(c) and shall meet the following requirements:

- (1) Indicate estimated actual emissions of all pollutants listed in 326 IAC 2-6-4(a);
- (2) Indicate estimated actual emissions of regulated pollutants as defined by 326 IAC 2-7-1(32) ("Regulated pollutant, which is used only for purposes of Section 19 of this rule") from the source, for purpose of fee assessment.

The statement must be submitted to:

Indiana Department of Environmental Management
Technical Support and Modeling Section, Office of Air Quality
100 North Senate Avenue
MC 61-50 IGCN 1003
Indianapolis, Indiana 46204-2251

The emission statement does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

- (b) The emission statement required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ on or before the date it is due.

C.18 General Record Keeping Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-6]

- (a) Records of all required monitoring data, reports and support information required by this permit shall be retained for a period of at least five (5) years from the date of monitoring sample, measurement, report, or application. These records shall be physically present or electronically accessible at the source location for a minimum of three (3) years. The records may be stored elsewhere for the remaining two (2) years as long as they are available upon request. If the Commissioner makes a request for records to the Permittee, the Permittee shall furnish the records to the Commissioner within a reasonable time.
- (b) Unless otherwise specified in this permit, all record keeping requirements not already legally required shall be implemented within ninety (90) days of permit issuance or ninety (90) days of initial start-up, whichever is later.

C.19 General Reporting Requirements [326 IAC 2-7-5(3)(C)] [326 IAC 2-1.1-11]

- (a) The Permittee shall submit the attached Quarterly Deviation and Compliance Monitoring Report or its equivalent. Any deviation from permit requirements, and the date(s) of each deviation, the cause of the deviation, and the response steps taken must be reported. This report shall be submitted within thirty (30) days of the end of the reporting period. The Quarterly Deviation and Compliance Monitoring Report shall include the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

- (b) The report required in (a) of this condition and reports required by conditions in Section D of this permit shall be submitted to:
- Indiana Department of Environmental Management
Compliance and Enforcement Branch, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251
- (c) Unless otherwise specified in this permit, any notice, report, or other submission required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ on or before the date it is due.
- (d) Unless otherwise specified in this permit, all reports required in Section D of this permit shall be submitted within thirty (30) days of the end of the reporting period. All reports do require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).
- (e) The first report shall cover the period commencing on the date of issuance of this permit or the date of initial start-up, whichever is later, and ending on the last day of the reporting period. Reporting periods are based on calendar years, unless otherwise specified in this permit. For the purpose of this permit, "calendar year" means the twelve (12) month period from January 1 to December 31 inclusive.

Stratospheric Ozone Protection

C.20 Compliance with 40 CFR 82 and 326 IAC 22-1

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

- (a) Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices pursuant to 40 CFR 82.156.
- (b) Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to 40 CFR 82.158.
- (c) Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to 40 CFR 82.161.

SECTION D.1 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

- (a) Six (6) natural gas fired fryers identified as Moline I, Moline II, Moline III, Moline IV, Moline V and Moline VI with maximum capacities of 3000 pounds per hour of premix dough and water, respectively, which were installed in July 1993, December 1996, December 1998, February 2001, February 2002, February 2002 and February 2002, respectively, and have rated capacities of 1.4, 1.4, 1.4, 0.26, 0.84 and 0.84 MMBtu per hour, respectively, exhausting to Stacks 1, 2, 3, 7, 5, and 4.
- (b) One (1) natural gas fired fryer identified as Moline VII with a maximum capacity of 3000 pounds per hour of premix cake batter and water, installed in October 2008 and have a rated heat capacity of 1.3 MMBtu per hour, exhausting to Stacks 9 and 10.

(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 2-7-5(1)]

D.1.1 Volatile Organic Compounds (VOC) [326 IAC 8-1-6]

In order to render the requirements of 326 IAC 8-1-6 not applicable, the VOC emissions from the fermentation process for each bakery line (Moline I through Moline VII) shall be limited to 24.4 tons per twelve (12) consecutive month period. Compliance with this limit for VOC emissions from the fermentation process in combination with the VOC emissions from frying for each bakery line shall limit the total VOC emissions from each bakery line to less than 25 tons per twelve (12) consecutive month period and render the requirements of 326 IAC 8-1-6 (BACT) not applicable for each facility.

D.1.2 Particulate [326 IAC 6-3-2]

Pursuant to 326 IAC 6-3-2(e)(2), the allowable particulate emission rate from each natural gas fired fryer shall not exceed the 4.56 pounds per hour when operating at a process weight rate of 1.50 tons per hour.

The pounds per hour limitations were calculated with the following equation:

Interpolation of the data in the table in 326 IAC 6-3-2(e)(2) for the process weight rates up to sixty thousand (60,000) pounds per hour shall be accomplished by use of the equation:

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

D.1.3 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

A Preventative Maintenance Plan, in accordance with Section B - Preventative Maintenance Plan, of this permit, is required for these facilities.

Compliance Determination Requirements

D.1.4 Volatile Organic Compounds

Compliance with the VOC limit contained in D.1.1 shall be determined by the following equation:

$$\sum_{m=1}^{12} \left(\sum_{i=1}^n \frac{E_i * B_i}{2000 \text{ lb / ton}} \right)_m \leq 24.40 \text{ tons of VOC per twelve consecutive month period}$$

Where:

B_i = The amount of dough of type i produced during month m (tons/month);
 E_i = The VOC emission factor for type i dough (lb of VOC/ton of dough); and
 m = The compliance period is one (1) calendar month.

The emission factor for each type of donut dough shall be calculated using the following equation:

$$E = 0.95Y + 0.195t_i - 0.51S - 0.86t_s + 1.90$$

Where:

E = Pounds of VOC per ton of baked dough;
 Y = Initial baker's percent of yeast;
 t_i = Total yeast action time in hours;
 S = Final (spike) baker's percent of yeast; and
 t_s = Spiking time in hours.

Record Keeping and Reporting Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-19]

D.1.5 Record Keeping Requirements

- (a) To document compliance with Conditions D.1.1, the Permittee shall maintain records in accordance with (1) through (5) below. Records maintained for (1) through (5) shall be taken as stated below and shall be complete and sufficient to establish compliance with the VOC emissions limits established in Condition D.1.1.
- (1) The dates of the compliance period.
 - (2) The number of production hours for each bakery line operated (Moline I through Moline VI) during each compliance period.
 - (3) The total amount (in lbs) of yeast used for each bakery line operated during each compliance period.
 - (4) The total amount (in lbs) of dough produced for each bakery line operated during each compliance period.
 - (5) The following information necessary to calculate the VOC emission factor for each bakery line operated during each compliance period:
 - (A) The initial baker's percent of yeast;
 - (B) The total yeast action time in hours;
 - (C) The final (spike) baker's percent of yeast; and
 - (D) The spiking time in hours.
- (b) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

D.1.6 Reporting Requirements

A quarterly summary of the information to document compliance with Condition D.1.1 shall be submitted to the addresses listed in Section C - General Reporting Requirements, of this permit, using the reporting forms located at the end of this permit, or their equivalent, within thirty (30) days after the end of the quarter being reported.

SECTION D.2 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

Natural gas fired combustion sources with heat input equal to or less than ten million (10,000,000) Btu per hour, including:

- (a) One (1) natural gas fired boiler identified as Ajax, installed in September 2000, with rated capacity of 6.3 MMBtu per hour exhausting to the Stack 6; and
- (b) One (1) 6.3 MMBtu/hr natural gas fired boiler, identified as Ajax Boiler #2, installed in June 2003, with emissions exhausted through Stack 8.
- (e) Two (2) natural gas fueled water heaters, identified as EU39 and EU48, installed in June 2005, with heat input capacities of 0.199 MMBtu per hour and 0.370 MMBtu per hour, respectively. [326 IAC 6-2]

(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 2-7-5(1)]

D.2.1 Particulate Matter Limitation (PM) [326 IAC 6-2-3]

- (a) Pursuant to 326 IAC 6-2-3 (d) (Particulate emission limitations for sources of indirect heating: emission limitations for facilities specified in 326 IAC 6-2-1 (b)), particulate emissions from the 6.3 MMBtu per hour boiler, identified as the Ajax Boiler, constructed after September 21, 1983, shall in no case exceed 0.60 pounds of particulate matter per million British thermal units heat input.
- (b) Pursuant to 326 IAC 6-2-3 (d) (Particulate emission limitations for sources of indirect heating: emission limitations for facilities specified in 326 IAC 6-2-1 (b)), particulate emissions from the 6.3 MMBtu per hour boiler, identified as Ajax #2 Boiler, constructed after September 21, 1983, shall in no case exceed 0.56 pounds of particulate matter per million British thermal units heat input.
- (c) Pursuant to 326 IAC 6-2-3 (d) (Particulate emission limitations for sources of indirect heating: emission limitations for facilities specified in 326 IAC 6-2-1 (b)), particulate emissions from the water heater, identified as EU24, with a heat input capacity of .199 MMBtu, constructed after September 21, 1983, shall in no case exceed 0.56 pounds of particulate matter per million British thermal units heat input.
- (d) Pursuant to 326 IAC 6-2-3 (d) (Particulate emission limitations for sources of indirect heating: emission limitations for facilities specified in 326 IAC 6-2-1 (b)), particulate emissions from the water heater, identified as EU33, with heat input capacity of .370 MMBtu, constructed after September 21, 1983, shall in no case exceed 0.56 pounds of particulate matter per million British thermal units heat input.

D.2.2 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

A Preventative Maintenance Plan, in accordance with Section B - Preventative Maintenance Plan, of this permit, is required for these facilities.

SECTION D.3 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

- (c) One (1) dry ingredient storage and conveyance system, including, but not limited to, pneumatic conveyance process equipment and piping, storage silos, use bins, weigh scale hoppers, ingredient mixers, transfer equipment, other process equipment and piping, and associated pollution control equipment, installed in April 2002, with a maximum throughput of 16,500 pounds of dry ingredients per hour. The pneumatic conveyance system includes the following emission units:
- (1) Three (3) flour storage silos, identified as emission units EU01, EU02 and EU03, installed in December 1995, May 2001 and April 2002, respectively, with EU01 and EU02 each equipped with a baghouse and EU03 tied to one (1) central dust collector unit for control of particulate matter emissions, and exhausting outside.
 - (2) One (1) sugar storage silo, identified as emission unit EU04, installed in April 2002, tied to one (1) central dust collector unit for control of particulate matter emissions, and exhausting outside.
 - (3) One (1) dextrose storage silo identified as emission unit EU05 installed in April 2002, tied to one (1) central dust collector unit for control of particulate matter emissions, and exhausting outside.
 - (4) Thirteen (13) use bins, identified as emission units EU06 through EU18 installed in 2002, with each use bin tied to one (1) central dust collector unit for control of particulate matter emissions, exhausting outside.
 - (5) Fifteen (15) dry ingredient scale hoppers, identified as emission units EU19 through EU33 installed in 2002, with each scale hopper equipped with one (1) filter unit for control of particulate matter emissions, exhausting outside.

(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 2-7-5(1)]

D.3.1 Particulate [326 IAC 6-3-2]

Pursuant to 326 IAC 6-3-2, the particulate emissions from each of the dry ingredient storage and conveyance emission units shall not exceed the allowable PM emission rate as listed in the table below:

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

Interpolation of the data in the table in 326 IAC 6-3-2(e)(2) for the process weight rates up to sixty thousand (60,000) pounds per hour shall be accomplished by use of the equation:

$$E = 4.10 P^{0.67}$$

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

Emission Unit Type	Maximum Process Weight Rate (tons/hr)	326 IAC 6-3-2 Allowable PM Emission Rate (lbs/hr)
Flour Silos (3)	6	13.62
Minor Ingredient Silos (2)	2.25	7.06
Use Bins (13)	8.25	16.86
Scale Hoppers (15)	8.25	16.86

D.3.2 Fugitive Particulate Matter Emission Limitations [326 IAC 6-5]

The Permittee shall control fugitive particulate matter emissions according to the Fugitive Dust Control Plan, submitted on April 6, 2009.

D.3.3 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

A Preventative Maintenance Plan, in accordance with Section B - Preventative Maintenance Plan, of this permit, is required for these facilities.

Compliance Determination Requirements

D.3.4 Particulate Control [326 IAC 6-3-2]

- (a) In order to comply with Condition D.3.1, particulate from the flour silos, EU01 and EU02, shall be controlled by a baghouse at all times that each flour silo is in operation.
- (b) In order to comply with the allowable rate of emission, particulate from the remaining flour silo (EU03), minor ingredient silos and use bins shall be controlled by the central dust collector unit at all times that each of these units are in operation.
- (c) In order to comply with the allowable rate of emission, particulate from each scale hopper shall be controlled by a dry filter unit at all times that each of these units are in operation.
- (d) In the event that bag failure is observed in a multi-compartment baghouse unit, if operations will continue for ten (10) days or more after the failure is observed before the failed units will be repaired or replaced, the Permittee shall promptly notify the IDEM, OAQ of the expected date the failed units will be repaired or replaced. The notification shall also include the status of the applicable compliance monitoring parameters with respect to normal, and the results of any response actions taken up to the time of notification.
- (e) In order to comply with the allowable rate of emission, particulate from the remaining flour silo (EU03), minor ingredient silos and use bins shall be controlled by the central dust collector unit at all times that each of these units are in operation.
- (f) In order to comply with the allowable rate of emission, particulate from each scale hopper shall be controlled by a dry filter unit at all times that each of these units are in operation.

Compliance Monitoring Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-19]

D.3.5 Visible Emissions Notations [40 CFR 64]

- (a) Visible emission notations from the pressure release openings of the five (5) storage silos shall be performed once per day during normal daylight operations when exhausting to the atmosphere. A trained employee shall record whether emissions are normal or abnormal.
- (b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.

- (c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.
- (d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.
- (e) If abnormal emissions are observed, the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions or Exceedances. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances, shall be considered a deviation from this permit.

D.3.6 Parametric Monitoring

- (a) The Permittee shall monitor the pressure alarms to the 13-qty Use Bins and 15-qty Scale Hoppers continuously with the Control System over the Batching Area. When either the low pressure "No Convey Alarm" or high pressure "High Pressure Alarm Check Filters to Mixer XX" alarm is active during production, the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions or Exceedances. An active alarm during production is not a deviation from this permit. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances, shall be considered a deviation from this permit.
- (b) The instrument used for monitoring the pressure alarms shall comply with Section C - Instrument Specifications, of this permit, shall be subject to approval by IDEM, OAQ, and shall be calibrated at least once every six (6) months.

D.3.7 Broken or Failed Baghouse Detection

- (a) For a single compartment baghouse unit controlling emissions from a process operated continuously, a failed unit and the associated process shall be shut down immediately until the failed unit has been repaired or replaced. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).
- (b) Bag failure may be indicated by a significant drop in the baghouse's pressure readings with abnormal visible emissions, by an opacity violation, or by other means, such as gas temperatures, flow rates, air infiltration, leaks, dust traces or triboflows.

Record Keeping and Reporting Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-19]

D.3.8 Record Keeping Requirements

To document compliance with Condition D.3.5 the Permittee shall maintain a daily record of visible emission notations required by that condition. The Permittee shall include in its daily record when a visible emission notation is not taken and the reason for the lack of visible emission notation (e.g. the process did not operate that day).

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
PART 70 OPERATING PERMIT
CERTIFICATION**

Source Name: Maplehurst Bakeries, Inc.
Source Address: 50 Maplehurst Drive, Brownsburg, Indiana 46112
Mailing Address: 50 Maplehurst Drive, Brownsburg, Indiana 46112
Part 70 Permit No.: T063-28023-00031

This certification shall be included when submitting monitoring, testing reports/results or other documents as required by this permit.

Please check what document is being certified:

- Annual Compliance Certification Letter
- Test Result (specify)
- Report (specify)
- Notification (specify)
- Affidavit (specify)
- Other (specify)

I certify that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.

Signature:

Printed Name:

Title/Position:

Phone:

Date:

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE AND ENFORCEMENT BRANCH
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251
Phone: (317) 233-0178
Fax: (317) 233-6865**

**PART 70 OPERATING PERMIT
EMERGENCY OCCURRENCE REPORT**

Source Name: Maplehurst Bakeries, Inc.
Source Address: 50 Maplehurst Drive, Brownsburg, Indiana 46112
Mailing Address: 50 Maplehurst Drive, Brownsburg, Indiana 46112
Part 70 Permit No.: T063-28023-00031

This form consists of 2 pages

Page 1 of 2

- This is an emergency as defined in 326 IAC 2-7-1(12)
- The Permittee must notify the Office of Air Quality (OAQ), within four (4) business hours (1-800-451-6027 or 317-233-0178, ask for Compliance Section); and
 - The Permittee must submit notice in writing or by facsimile within two (2) working days (Facsimile Number: 317-233-6865), and follow the other requirements of 326 IAC 2-7-16.

If any of the following are not applicable, mark N/A

Facility/Equipment/Operation:
Control Equipment:
Permit Condition or Operation Limitation in Permit:
Description of the Emergency:
Describe the cause of the Emergency:

If any of the following are not applicable, mark N/A

Page 2 of 2

Date/Time Emergency started:
Date/Time Emergency was corrected:
Was the facility being properly operated at the time of the emergency? Y N
Type of Pollutants Emitted: TSP, PM-10, SO ₂ , VOC, NO _x , CO, Pb, other:
Estimated amount of pollutant(s) emitted during emergency:
Describe the steps taken to mitigate the problem:
Describe the corrective actions/response steps taken:
Describe the measures taken to minimize emissions:
If applicable, describe the reasons why continued operation of the facilities are necessary to prevent imminent injury to persons, severe damage to equipment, substantial loss of capital investment, or loss of product or raw materials of substantial economic value:

Form Completed by: _____

Title / Position: _____

Date: _____

Phone: _____

A certification is not required for this report.

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

Part 70 Quarterly Report

Source Name: Maplehurst Bakeries, Inc.
Source Address: 50 Maplehurst Drive, Brownsburg, Indiana 46112
Mailing Address: 50 Maplehurst Drive, Brownsburg, Indiana 46112
Part 70 Permit No.: T063-28023-00031
Facility: Seven (7) Bakery Lines
Parameter: Volatile Organic Compounds (VOC)
Limit: Twenty-four and four tenths (24.4) tons per year, according to the equations:

$$\sum_{m=1}^{12} \left(\sum_{i=1}^n \frac{E_i * B_i}{2000 \text{ lb / ton}} \right)_m \leq 24.4 \text{ tons of VOC per twelve consecutive month period}$$

Where:

B_i = The amount of dough of type i produced during month m (tons/month);
 E_i = The VOC emission factor for type i bread (lb of VOC/ton of dough); and
 m = The compliance period is one (1) calendar month.

The emission factor for each type of dough made shall be calculated using the following equation:

$$E = 0.95Y + 0.195t_i - 0.51S - 0.86t_s + 1.90$$

Where:

E = Pounds of VOC per ton of baked dough;
 Y = Initial baker's percent of yeast;
 t_i = Total yeast action time in hours;
 S = Final (spike) baker's percent of yeast; and
 t_s = Spiking time in hours.

QUARTER :

YEAR:

Month	Column 1	Column 2	Column 1 + Column 2
	This Month	Previous 11 Months	12 Month Total
Month 1			
Month 2			
Month 3			

No deviation occurred in this quarter.

Deviation/s occurred in this quarter.
Deviation has been reported on:

Submitted by: _____
Title / Position: _____
Signature: _____
Date: _____
Phone: _____

Attach a signed certification to complete this report.

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF AIR QUALITY
 COMPLIANCE AND ENFORCEMENT BRANCH
 PART 70 OPERATING PERMIT
 QUARTERLY DEVIATION AND COMPLIANCE MONITORING REPORT**

Source Name: Maplehurst Bakeries, Inc.
 Source Address: 50 Maplehurst Drive, Brownsburg, Indiana 46112
 Mailing Address: 50 Maplehurst Drive, Brownsburg, Indiana 46112
 Part 70 Permit No.: T063-28023-00031

Months: _____ to _____ Year: _____

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

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

Form Completed by: _____

Title / Position: _____

Date: _____

Phone: _____

Attach a signed certification to complete this report.

Maplehurst Bakeries, LLC

50 Maplehurst Drive
Brownsburg, IN 46231

TELEPHONE: 317-858-9000

FAX: 317-858-9009

FUGITIVE DUST CONTROL PLAN

Revised: 4/6/2009

Source Information

Primary Contact & Owner Information

Robert Goold
Vice President of Operations
Maplehurst Bakeries
50 Maplehurst Drive
Brownsburg, IN 46112
Direct Office Number: (317) 858-4514
Off-hours Number: (317) 697-0257

Source Address

Maplehurst Bakeries, LLC
50 Maplehurst Drive
Brownsburg, IN 46112

Emission Sources and Methods of Fugitive Emissions Control

Roadway Control Measures

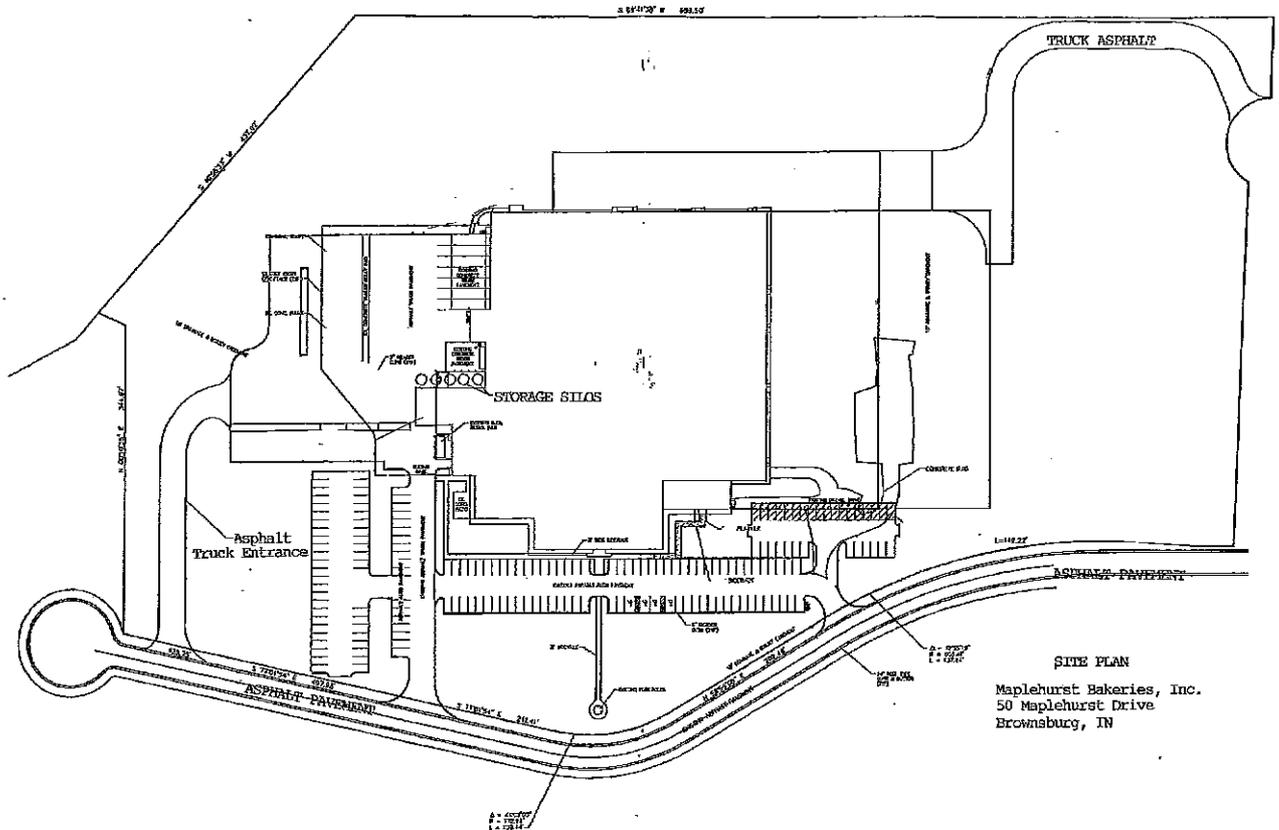
Maplehurst Bakeries – Brownsburg, IN

1. Traffic is restricted to established and controlled, paved roadways.
2. All parking lots are paved with asphalt and / or concrete.
3. Parking Lots are inspected for debris daily and debris is removed as necessary.
4. The following housekeeping and maintenance procedures that minimize the opportunity for particulate matter to become airborne and leave the property shall be followed:
 - a. Areas to be swept and maintained shall include, at a minimum, the following:
 - i. General grounds, yard, and other open areas.
 - ii. Silo Areas, unloading areas, dust collectors, and all areas of dust or waste concentrations.
 - b. Cleanings and other collected waste material shall be handled and disposed of so that the area does not generate fugitive dust.
 - c. Dust from driveways, access roads, and other areas of travel shall be controlled.
5. Accidental spills and other accumulations shall be cleaned up as soon as possible, but no later than completion of the day's operation in accordance with the site's SPPC plan and Spill Response and Communication Procedures.

6. Equipment maintenance shall consist of procedures that eliminate or minimize emissions from Equipment or a system caused by the following:
 - a. Mechanical failures
 - b. Operating above the rated or designed capacity
 - c. Not following designed operating specifications
 - d. Lack of good preventive maintenance care
 - e. Lack of critical and proper spare replacement parts on hand
 - f. Lack of properly trained and experienced personnel

7. All bulk unloading of dry materials (flour, sugar, dextrose, oils) shall be supervised as per the Bulk Unloading SOP.

Site Map



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

Addendum to the
Technical Support Document for a for a Part 70 Permit Significant Source
Modification and Part 70 Operating Permit

Source Name:	Maplehurst Bakeries, Inc.
Source Location:	50 Maplehurst Drive, Brownsburg, Indiana 46112
County:	Hendricks
SIC Code:	2051
Operation Permit No.:	M063-21587-00031
Operation Permit Issuance Date:	June 1, 2006
Part 70 Operating Permit No.:	T063-28023-00031
Significant Source Modification No.:	063-27849-00031
Permit Reviewer:	Jean Boling

On August 8, 2009, the Office of Air Quality (OAQ) had a notice published in the Hendricks County Flyer, in Plainfield, Indiana, stating that Maplehurst Bakeries, Inc. had applied for a New Source Review permit to transition its commercial bakery facility from the existing Minor Source Operating Permit to a Part 70 Operating Permit. The notice also stated that OAQ proposed to issue a permit for this operation and provided information on how the public could review the proposed permit and other documentation. Finally, the notice informed interested parties that there was a period of thirty (30) days to provide comments on whether or not this permit should be issued as proposed.

Upon further review, IDEM OAQ has decided to make the following revisions to the permit (bold language has been added, the language with the line through it has been deleted).

1. IDEM, OAQ is revising Section B - Emergency Provisions to allow the Permittee to reference a previously reported emergency under paragraph (b)(5) in the Quarterly Deviation and Compliance Monitoring Report.

B.11 Emergency Provisions [326 IAC 2-7-16]

- (h) The Permittee shall include all emergencies in the Quarterly Deviation and Compliance Monitoring Report. **Any emergencies that have been previously reported pursuant to paragraph (b)(5) of this condition and certified by a "responsible official " need only referenced by the date of the original report.**

2. IDEM, OAQ is revising conditions D.3.1 and D.3.4 to move conditions D.3.1(a), (b) and (c) from the Emission Limitations and Standards section to the Compliance Determination section.

Emission Limitations and Standards [326 IAC 2-7-5(1)]

D.3.1 Particulate [326 IAC 6-3-2]

- (a) ~~In order to comply with the allowable rate of emission, particulate from the flour silos (EU01 and EU02) shall be controlled by a baghouse at all times that each of the flour silos are in operation.~~

- ~~(b) In order to comply with the allowable rate of emission, particulate from the remaining flour silo (EU03), minor ingredient silos and use bins shall be controlled by the central dust collector unit at all times that each of these units are in operation.~~
- ~~(c) In order to comply with the allowable rate of emission, particulate from each scale hopper shall be controlled by a dry filter unit at all times that each of these units are in operation.~~

Compliance Determination Requirements

D.3.4 Particulate Control [326 IAC 6-3-2]

- (a) In order to comply with Condition D.3.1, particulate from the flour silos, EU01 and EU02, shall be controlled by a baghouse at all times that each flour silo is in operation.**
- (b) In order to comply with Condition D.3.1, particulate from the remaining flour silo (EU03), minor ingredient silos and use bins shall be controlled by the central dust collector unit at all times that each of these units are in operation.**
- (c) In order to comply with Condition D.3.1, particulate from each scale hopper shall be controlled by a dry filter unit at all times that each of these units are in operation.**
- (bd)** In the event that bag failure is observed in a multi-compartment baghouse unit, if operations will continue for ten (10) days or more after the failure is observed before the failed units will be repaired or replaced, the Permittee shall promptly notify the IDEM, OAQ of the expected date the failed units will be repaired or replaced. The notification shall also include the status of the applicable compliance monitoring parameters with respect to normal, and the results of any response actions taken up to the time of notification.
- (ee)** In order to comply with the allowable rate of emission, particulate from the remaining flour silo (EU03), minor ingredient silos and use bins shall be controlled by the central dust collector unit at all times that each of these units are in operation.
- (df)** In order to comply with the allowable rate of emission, particulate from each scale hopper shall be controlled by a dry filter unit at all times that each of these units are in operation.

No change will be made to the original TSD. The OAQ prefers that the TSD reflect the permit that was on public notice. Changes to the permit or technical support material that occur after public notice are documented in this Addendum to the Technical Support Document. This accomplishes the desired result of ensuring that these types of concerns are documented and part of the record regarding this permit decision.

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

**Technical Support Document (TSD) for a Part 70 Permit Significant
Source Modification and Part 70 Operating Permit**

Source Background and Description

Source Name:	Maplehurst Bakeries, Inc.
Source Location:	50 Maplehurst Drive, Brownsburg, Indiana 46112
County:	Hendricks
SIC Code:	2051
Operation Permit Issuance Date:	June 1, 2006
Part 70 Operating Permit No.:	T063-28023-00031
Significant Source Modification No.:	063-27849-00031
Permit Reviewer:	Jean Boling

The Office of Air Quality (OAQ) has reviewed the operating permit application from Maplehurst Bakeries, Inc. relating to a commercial bakery operation.

History

On October 20, 2008, Maplehurst Bakeries, Inc. submitted an application to the OAQ requesting to transition from a Minor Source Operating Permit (MSOP) to a Part 70 Operating Permit.

Permitted Emission Units and Pollution Control Equipment

Two (2) of six (6) natural gas fired fryers, identified as Moline I and Moline II, installed in July 1993 and December 1996, with maximum capacities of 3000 pounds per hour of premix dough and water, respectively, and heat input rated capacities of 1.4 and 1.4 MMBtu per hour, exhausting to Stacks 1 and 2.

Emission Units and Pollution Control Equipment Operated without the Proper Permit

- (a) Four (4) of six (6) natural gas fired fryers, identified as Moline III, Moline IV, Moline V and Moline VI, installed in December 1998, February 2001, February 2002, February 2002 and February 2002, respectively, with maximum capacities of 3000 premix dough and water, and rated capacities of 1.4, 0.26, 0.84 and 0.84 MMBtu per hour, respectively, exhausting to Stacks 3, 7, 5, and 4.
- (b) One (1) natural gas fired fryer, identified as Moline VII, installed in October 2008, with a maximum capacity of 3000 pounds per hour of premix cake batter and water and a rated heat capacity of 1.3 MMBtu per hour, exhausting to Stacks 9 and 10.

Insignificant Activities

- (c) Natural gas fired combustion sources with heat input equal to or less than ten million (10,000,000) Btu per hour, including:
 - (1) One (1) natural gas fired boiler identified as Ajax, installed in September 2000, with a rated capacity of 6.3 MMBtu per hour, exhausting to Stack 6. [326 IAC 6-2]
 - (2) One (1) natural gas fired boiler, identified as Ajax Boiler #2, installed in June 2003, with a rated capacity of 6.3 MMBtu per hour, exhausting to Stack 8. [326 IAC 6-2]

Emission Units and Pollution Control Equipment Operated without a Permit and Receiving New Source Review Approval

- (a) One (1) dry ingredient storage and conveyance system, including, but not limited to, pneumatic conveyance process equipment and piping, storage silos, use bins, weigh scale hoppers, ingredient mixers, transfer equipment, other process equipment and piping, and associated pollution control equipment, installed in April 2002, with a maximum throughput of 16,500 pounds of dry ingredients per hour. The pneumatic conveyance system includes the following emission units:
- (1) Three (3) flour storage silos, identified as emission units EU01, EU02 and EU03, installed in December 1995, May 2001 and April 2002, respectively, with EU01 and EU02 each equipped with a baghouse and EU03 tied to one (1) central dust collector unit for control of particulate matter emissions, and exhausting outside.
 - (2) One (1) sugar storage silo, identified as emission unit EU04, installed in April 2002, tied to one (1) central dust collector unit for control of particulate matter emissions, and exhausting outside.
 - (3) One (1) dextrose storage silo identified as emission unit EU05 installed in April 2002, tied to one (1) central dust collector unit for control of particulate matter emissions, and exhausting outside.
 - (4) Thirteen (13) use bins, identified as emission units EU06 through EU18 installed in 2002, with each use bin tied to one (1) central dust collector unit for control of particulate matter emissions, and exhausting outside.
 - (5) Fifteen (15) dry ingredient scale hoppers, identified as emission units EU19 through EU33 installed in 2002, with each scale hopper equipped with one (1) filter unit for control of particulate matter emissions, and exhausting outside.

Insignificant Activities

- (b) Natural gas fired combustion sources with heat input equal to or less than ten million (10,000,000) Btu per hour, including:
- (1) Five (5) natural gas fueled space heaters, identified as EU34, EU35, EU36, EU37 and EU40, with two (2) space heaters having a heat input capacity of 0.040 MMBtu per hour and three (3) space heaters having a heat input capacity of 0.030 MMBtu per hour, each installed in June 2005, except EU37 which was installed in October 1994.
 - (2) Two (2) natural gas fueled revert ovens, identified as EU38 and EU72, installed in June 2005, with heat input capacities of 0.170 MMBtu per hour and 0.177 MMBtu per hour, respectively.
 - (3) Two (2) natural gas fueled water heaters, identified as EU39 and EU48, installed in June 2005, with heat input capacities of 0.199 MMBtu per hour and 0.370 MMBtu per hour, respectively. [326 IAC 6-2]
 - (4) Eight (8) natural gas fueled, makeup air units identified as EU41 through EU47 and EU49, each installed in June 2005, except EU47 which was installed in 2001, with heat input capacities that range from 0.225 MMBtu per hour to 4.125 MMBtu per hour.

- (5) Twenty Two (22) natural gas fueled rooftop heating/air conditioning units, identified as EU50 through EU71, installed between March 1994 and October 2008, with heat input capacities that range from 0.199 MMBtu per hour to 0.370 MMBtu per hour.

Stack Summary

Stack ID	Operation	Height (ft)	Diameter (ft)	Flow Rate (acfm)	Temperature (°F)
Stack 1	Combustion	25	1.00	450	600
Stack 2	Combustion	25	1.00	450	600
Stack 3	Combustion	25	0.83	450	600
Stack 4	Combustion	25	0.83	450	600
Stack 5	Combustion	25	1.00	450	600
Stack 6	Boiler	25	1.67	2500	350
Stack 7	Combustion	25	1.00	450	600
Stack 8	Boiler	30	2.00	2500	350
Stack 9	Combustion	36	0.83	500	450
Stack 10	Combustion	36	0.83	500	450

Existing Approvals

Since the issuance of the MSOP Permit No. 063-21587-00031 on June 1, 2006, the source has constructed and been operating under the following approvals as well:

- (a) MSOP Notice Only Change No. 063-26222-00031 issued on March 17, 2008; and
- (b) MSOP Notice Only Change No. 063-26558-00031 issued on June 10, 2008.

All terms and conditions of previous permits issued pursuant to permitting programs approved into the state implementation plan have been either incorporated as originally stated, revised, or deleted by this permit. All previous registrations and permits are superseded by this permit.

County Attainment Status

The source is located in Hendricks County.

Pollutant	Designation
SO ₂	Better than national standards.
CO	Unclassifiable or attainment effective November 15, 1990.
O ₃	Attainment effective October 19, 2007, 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.
¹ Unclassifiable or attainment effective October 18, 2000, for the 1-hour ozone standard which was revoked effective June 15, 2005. Basic nonattainment designation effective federally 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, and 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 (NO_x) 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 NO_x emissions are considered when evaluating the rule applicability relating to ozone. Hendricks County has been designated as attainment or unclassifiable for ozone. Therefore, VOC and NO_x emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.
- (b) PM_{2.5}
U.S. EPA, in the Federal Register Notice 70 FR 943 dated January 5, 2005, has designated Hendricks County as nonattainment for PM_{2.5}. On March 7, 2005 the Indiana Attorney General's Office, on behalf of IDEM, filed a law suit with the Court of Appeals for the District of Columbia Circuit challenging U.S. EPA's designation of nonattainment areas without sufficient data. However, in order to ensure that sources are not potentially liable for a violation of the Clean Air Act, the OAQ is following the U.S. EPA's New Source Review Rule for PM_{2.5} promulgated on May 8, 2008, and effective on July 15 2008. Therefore, direct PM_{2.5} and SO₂ emissions were reviewed pursuant to the requirements of Nonattainment New Source Review, 326 IAC 2-1.1-5. See the State Rule Applicability – Entire Source section.
- (c) Other Criteria Pollutants
Hendricks County has been classified as attainment or unclassifiable in Indiana for all other pollutants. Therefore, these emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.
- (d) Fugitive Emissions
Since this type of operation is not one of the twenty-eight (28) listed source categories under 326 IAC 2-2 or 326 IAC 2-3, fugitive emissions are not counted toward the determination of PSD and Emission Offset applicability.

Enforcement Issue

IDEM is aware that some equipment has been constructed and operated without an operating permit and other equipment has been operated without the proper level permit. The subject equipment is listed in this document under the sections entitled "Emission Units and Pollution Control Equipment Operated without a Permit and Receiving New Source Review Approval" and "Emission Units and Pollution Control Equipment Operated without the Proper Permit," respectively. IDEM is reviewing this matter and will take appropriate action by issuing this proposed permit to satisfy the requirements of the Part 70 Operating Permit Program rules.

On October 20, 2008, Maplehurst Bakeries, Inc. submitted an application to the OAQ requesting to transition from a Minor Source Operating Permit (MSOP) to a Title V Operating Permit (TVOP). The facility is currently operating under MSOP No. M063-21587-00031, which expires on June 1, 2016.

The primary reason for the request to transition from MSOP to TVOP is that during an audit it was discovered that information in the MSOP was incorrect. In particular, the maximum capacities for six fryers, identified as Moline I through VI were incorrect. Therefore, the throughputs used to calculate the potential to emit (PTE) for the bakery lines were incorrect. In addition, the baker's percent of yeast in the dough and yeast action time for the fermentation process used in the EPA bakery oven emissions estimating formula to calculate the VOC (primarily ethanol) emissions were also incorrect.

The permit level determination was based on incorrect and erroneously low emission calculations, which caused the source to be regulated under the wrong permit program. The Look Back Emission Calculations (See Appendix B of this TSD for the Look Back Emission Calculations) shows the potential to emit for the entire source exceeded the threshold level for 326 IAC 2-7 (Part 70 Operating Permit Program) in December 1998. However, this source did not violate the requirements of 326 IAC 2-2 Prevention of Significant Deterioration (PSD) and 326 IAC 2-3 Emission Offset because they were not applicable.

This source was constructed after the applicability date of August 7, 1977, it is not one of the 28 listed source categories defined in 326 IAC 2-2-1(gg)(1), no major modifications were done to this source, and the potential to emit of all attainment regulated pollutants is less than 250 tons per year. Therefore, the requirements of 326 IAC 2-2 PSD were not applicable. The requirements of 326 IAC 2-3 Emission Offset apply to major sources or major modifications constructed in an area designated as nonattainment. Hendricks County was designated as nonattainment for 8 hour ozone from June 2004 until October 2007. The Look Back Emission Calculations shows there was one modification made in 2005, however the VOC and NO_x potential emissions for the modification were well below the Emission Offset significant levels. Therefore, no significant modifications were made to this source while the county was in nonattainment and the requirements of 326 IAC 2-3 Emission Offset were not applicable, as well. On January 5, 2005, the county was designated as nonattainment for PM_{2.5}. There were two modifications made to the source, after the county became nonattainment for PM_{2.5}. The modification made in 2005 and another modification made in 2008. The Lookback Calculations shows the potential emissions for PM_{2.5} were well below the nonattainment new source review major source threshold level for both modifications, therefore the requirements of 326 IAC 2-1.1-5 were also not applicable to the source.

Emission Calculations

- (a) See Appendix A of this TSD for detailed Emission Calculations.
- (b) See Appendix B of this TSD for the Look Back Emission Calculations.
- (c) VOCs emitted during fermentation (leavening) of dough have been assumed to be 97% ethanol and 3% acetaldehyde (VOC/HAP), based on the information provided in "Alternative Control Technology Document for Bakery Oven Emissions" (EPA 453/R-92-017, December 1992) and Henderson, D.C., 1977, "Commercial Bakeries as a Major Source of Reactive Volatile Organic Gases", U.S. EPA, Region XI Surveillance and Analysis Division.

Description of Modification and New Source Construction

The Office of Air Quality (OAQ) has reviewed a Part 70 Operating Permit application, submitted by Maplehurst Bakeries, Inc. on October 20, 2008, relating to the modification of existing emission units and addition of a dry ingredient storage and conveyance system.

- (a) The following is a list of the modified emission units and pollution control devices.
 - (1) Six (6) natural gas fired fryers identified as Moline I, Moline II, Moline III, Moline IV, Moline V and Moline VI with maximum capacities of 3000 pounds per hour of

premix dough and water, respectively, which were installed in July 1993, December 1996, December 1998, February 2001, February 2002, February 2002 and February 2002, respectively, and have rated capacities of 1.4, 1.4, 1.4, 0.26, 0.84 and 0.84 MMBtu per hour, respectively, exhausting to Stacks 1, 2, 3, 7, 5, and 4.

- (2) One (1) natural gas fired fryer identified as Moline VII with a maximum capacity of 3000 pounds per hour of premix cake batter and water, installed in October 2008 and have a rated heat capacity of 1.3 MMBtu per hour, exhausting to Stacks 9 and 10.

Insignificant Activities

- (3) Natural gas fired combustion sources with heat input equal to or less than ten million (10,000,000) Btu per hour, including:
 - (a) One (1) natural gas fired boiler identified as Ajax, installed in September 2000, with a rated capacity of 6.3 MMBtu per hour, exhausting to Stack 6; and
 - (b) One (1) natural gas fired boiler, identified as Ajax Boiler #2, installed in June 2003, with a rated capacity of 6.3 MMBtu per hour, exhausting to Stack 8.
- (b) The following is a list of the new construction emission units and pollution control devices.
 - (1) One (1) dry ingredient storage and conveyance system, including, but not limited to, pneumatic conveyance process equipment and piping, storage silos, use bins, weigh scale hoppers, ingredient mixers, transfer equipment, other process equipment and piping, and associated pollution control equipment, installed in April 2002, with a maximum throughput of 16,500 pounds of dry ingredients per hour. The pneumatic conveyance system includes the following emission units:
 - (a) Three (3) flour storage silos, identified as emission units EU01, EU02 and EU03, installed in December 1995, May 2001 and April 2002, respectively, with EU01 and EU02 each equipped with a baghouse and EU03 tied to one (1) central dust collector unit for control of particulate matter emissions, and exhausting outside.
 - (b) One (1) sugar storage silo, identified as emission unit EU04, installed in April 2002, tied to one (1) central dust collector unit for control of particulate matter emissions, and exhausting outside.
 - (c) One (1) dextrose storage silo identified as emission unit EU05 installed in April 2002, tied to one (1) central dust collector unit for control of particulate matter emissions, and exhausting outside.
 - (d) Thirteen (13) use bins, identified as emission units EU06 through EU18 installed in 2002, with each use bin tied to one (1) central dust collector unit for control of particulate matter emissions, and exhausting to the indoors.
 - (e) Fifteen (15) dry ingredient scale hoppers, identified as emission units EU19 through EU33 installed in 2002, with each scale hopper equipped with one (1) filter unit for control of particulate matter emissions, and exhausting to the indoors.

Insignificant Activities

- (2) Natural gas fired combustion sources with heat input equal to or less than ten million (10,000,000) Btu per hour, including:
 - (a) Five (5) natural gas fueled space heaters, identified as EU34, EU35, EU36, EU37 and EU40, with two (2) space heaters having a heat input capacity of 0.040 MMBtu per hour and three (3) space heaters having a heat input capacity of 0.030 MMBtu per hour, each installed in June 2005, except EU37 which was installed in October 1994.
 - (b) Two (2) natural gas fueled revert ovens, identified as EU38 and EU72, installed in June 2005, with heat input capacities of 0.170 MMBtu per hour and 0.177 MMBtu per hour, respectively.
 - (c) Two (2) natural gas fueled water heaters, identified as EU39 and EU48, installed in June 2005, with heat input capacities of 0.199 MMBtu per hour and 0.370 MMBtu per hour, respectively. [326 IAC 6-2]
 - (d) Eight (8) natural gas fueled, makeup air units identified as EU41 through EU47 and EU49, each installed in June 2005, except EU47 which was installed in 2001, with heat input capacities that range from 0.225 MMBtu per hour to 4.125 MMBtu per hour.
 - (e) Twenty Two (22) natural gas fueled rooftop heating/air conditioning units, identified as EU50 through EU71, installed between March 1994 and October 2008, with heat input capacities that range from 0.199 MMBtu per hour to 0.370 MMBtu per hour.

Permit Level Determination – Part 70

Pursuant to 326 IAC 2-1.1-1(16), Potential to Emit is defined as “the maximum capacity of a stationary source or emission 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, IDEM, or the appropriate local air pollution control agency.”

The following table is used to determine the appropriate permit level under 326 IAC 2-7-10.5. This table reflects the PTE before controls. Control equipment is not considered federally enforceable until it has been required in a federally enforceable permit.

PTE Before Controls of New Equipment and Associated Fugitive Emissions	
Pollutant	Potential To Emit (ton/yr)
PM	191.25
PM ₁₀	56.59
PM _{2.5}	56.59
SO ₂	0.05
VOC	0.47
CO	7.17
NO _x	8.54

HAPs	Potential To Emit (ton/yr)
Benzene	3.58E-04
Dichlorobenzene	2.05E-04
Formaldehyde	1.28E-02
n-Hexane	3.16E-01
Toluene	5.80E-04
Lead	8.53E-05
Cadmium	1.88E-04
Chromium	2.39E-04
Manganese	6.48E-05
Nickel	3.58E-04
Acetaldehyde	5.90E+00
Total HAPs	6.23E+00

PTE Change of Bakery Lines Before Controls (Moline I - Moline VI)			
Pollutant	PTE Before Modification (ton/yr)	PTE After Modification (ton/yr)	Net Difference (ton/yr)
PM	2.90	8.72	5.82
PM ₁₀	3.57	10.45	6.88
PM _{2.5}	3.57	10.45	6.88
SO ₂	0.02	0.02	0
VOC	73.23	223.06	149.83
CO	2.19	2.19	0
NO _x	2.61	2.61	0
HAPs	2.20	6.69	4.49

Total PTE Change due to the Modification			
Pollutant	PTE New Emission Units (ton/yr)	Net Increase to PTE of Modified Emission Units (ton/yr)	Total PTE for New and Modified Units (ton/yr)
PM	191.25	5.82	197.07
PM ₁₀	56.59	6.88	63.47
PM _{2.5}	56.59	6.88	63.47
SO ₂	0.05	0	0.05
VOC	0.47	149.83	150.30
CO	7.17	0	7.17
NO _x	8.54	0	8.54
HAPs	0.16	4.49	4.65

This modification is subject to 326 IAC 2-7-10.5 (f)(4), any modification with a potential to emit greater than or equal to twenty-five (25) tons per year of particulate matter (PM) or particulate matter with an aerodynamic diameter less than or equal to ten (10) micrometers (PM₁₀) and VOCs.

Permit Level Determination – PSD or Emission Offset

The table below summarizes the potential to emit, reflecting all limits, of the emission units. Any control equipment is considered federally enforceable only after issuance of this significant source modification and Part 70 Operating Permit, and only to the extent that the effect of the control equipment is made practically enforceable in the permit.

Operation/Process	PM	PM ₁₀	PM _{2.5}	SO ₂	NO _x	VOC	CO
Dry Ingredient Storage and Conveyance	0.57	0.20	0	0	0	0	0
Natural Gas Combustion	0.32	1.30	1.30	0.10	17.06	0.94	14.33
Frying	8.83	10.43	10.43	0	0	5.12	0
Fermentation	0	0	0	0	0	170.80	0
Fugitive	52.84	10.30	10.30	0	0	0	0
Total PTE for Modification	62.00	22.03	22.03	0.10	17.06	176.86	14.33
PSD Major Source Threshold Level	250	250	250	250	250	250	250
Nonattainment Major Source Threshold Level	-	-	100	100	-	-	-

This modification to an existing major stationary source is not major because the emissions increase is less than the PSD significant levels. Therefore, pursuant to 326 IAC 2-2, the PSD requirements do not apply.

This modification to an existing major stationary source is not major because the emissions increase is less than the Emission Offset significant levels. Therefore, pursuant to 326 IAC 2-3, the Emission Offset requirements do not apply.

Federal Rule Applicability

NSPS

- (a) This source is not subject to the requirements of the New Source Performance Standards (NSPS), 326 IAC 12 or 40 CFR 60, Subpart DD, Standards of Performance for Grain Elevators, since this source does not contain any grain terminal elevators or grain storage elevators. This source contains dry ingredient storage silos that are not equipped with grain elevators.
- (b) The 6.3 MMBtu per hour natural gas fired boilers, identified as Ajax and Ajax #2, are not subject to the requirements of 326 IAC 12 or 40 CFR 60, Subpart D (Standards of Performance for Fossil-Fuel-Fired Steam Generators for Which Construction is Commenced After August 17, 1971) even though they were constructed after August 17, 1971, because both boilers have a heat input capacity less than 250 MMBtu/hr.
- (c) This source is not subject to the requirements of the New Source Performance Standard (NSPS), 326 IAC 12, 40 CFR Part 60, Subpart Da (Standards of Performance for Fossil-Fuel-Fired Steam Generators for Which Construction is Commenced After September 18, 1978) even though the 6.3 MMBtu hour natural gas fired boilers, identified as Ajax and Ajax #2, were each constructed after September 18, 1978 because they do not supply electricity to a utility grid and each have a heat input capacity less than 250 MMBtu/hr.

- (d) The 6.3 MMBtu per hour natural gas fired boilers, identified as Ajax and Ajax #2, are not subject to the requirements of the New Source Performance Standard (NSPS), 326 IAC 12, 40 CFR Part 60, Subpart Db (Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units) because they were constructed after June 19, 1984 and have a heat input capacity less than 100 MMBtu/hr.
- (e) This source is not subject to the requirements of the New Source Performance Standard (NSPS), 326 IAC 12, 40 CFR Part 60, Subpart Dc (Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units) because the 6.3 MMBtu per hour natural gas fired boilers, identified as Ajax and Ajax #2, were constructed prior to June 9, 1989 and each have a heat input capacity less than 10 MMBtu/hr.
- (f) There are no New Source Performance Standards, 326 IAC 12 and 40 CFR Part 60, included in the permit for this source.

NESHAPS

- (g) There are no National Emission Standards for Hazardous Air Pollutants (NESHAP) (326 IAC 14, 20 and 40 CFR Part 61, 63) included in the permit for this source.

CAM

- (i) Pursuant to 40 CFR 64.2, Compliance Assurance Monitoring (CAM) is applicable to existing emission units that involve a pollutant-specific emission unit and meet the following criteria:
 - (1) has a potential to emit before controls equal to or greater than the major source threshold for the pollutant involved;
 - (2) is subject to an emission limitation or standard for that pollutant; and
 - (3) uses a control device, as defined in 40 CFR 64.1, to comply with that emission limitation or standard.

The following table is used to identify the applicability of each of the criteria, under 40 CFR 64.1, to each emission unit and specified pollutant subject to CAM:

Emission Unit	Control Device Used	Emission Limitation (Y/N)	Uncontrolled PTE (tons/year)	Controlled PTE (tons/year)	Major Source Threshold (tons/year)	CAM Applicable (Y/N)	Large Unit (Y/N)
Flour Silos (3)	baghouse	Y	82.52	0.5694	100	N	N
Minor Ingredient Silos (2)	central dust collector unit	Y	30.94	0.0031	100	N	N
Use Bins (13)	central dust collector unit	Y	0.18	0.0000	100	N	N
Scale Hoppers (15)	dry filter unit	Y	19.66	0.0020	100	N	N

Based on this evaluation, the requirements of 40 CFR Part 64, CAM are not applicable to any of the dry ingredient storage and conveyance units.

State Rule Applicability - Entire Source

326 IAC 1-5-2 (Emergency Reduction Plans)
 The source is subject to 326 IAC 1-5-2.

326 IAC 1-6-3 (Preventive Maintenance Plan)

The source is subject to the requirements of 326 IAC 1-6-3.

326 IAC 2-1.1-5 (Nonattainment New Source Review)

The requirements of 326 IAC 2-1.1-5 are not applicable to this source, since the potential to emit of PM_{2.5} is less than 100 tons per 12 consecutive month period. Hendricks County has been classified as attainment for PM_{2.5}. 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 PM_{2.5} emissions, it has directed states to regulate PM₁₀ emissions as surrogate for PM_{2.5} emissions.

326 IAC 2-2 (Prevention of Significant Deterioration)

The requirements of 326 IAC 2-2 are not applicable to this source, since this source was constructed after the applicability date of August 7, 1977, it is not one of the 28 listed source categories defined in 326 IAC 2-2-1(gg)(1), no major modifications were done to this source, and the potential to emit of all attainment regulated pollutants is less than, 250 tons per year.

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

The requirements of 326 IAC 2-4.1 are not applicable to this source, since 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 are less than twenty-five (25) tons per year.

326 IAC 2-6 (Emission Reporting)

This source is subject to 326 IAC 2-6 because it is required to have an operating permit under 326 IAC 2-7, Part 70 program. Pursuant to this rule, the Permittee shall submit an emission statement certified pursuant to the requirements of 326 IAC 2-6. In accordance with the compliance schedule specified in 326 IAC 2-6-3, an emission statement must be submitted triennially, by July 1, starting in 2005 and every 3 years after. Therefore, the first emission statement shall be submitted by July 1, 2011. The emission statement shall contain, at a minimum, the information specified in 326 IAC 2-6-4.

326 IAC 4-1 (Open Burning)

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

326 IAC 5-1 (Opacity Limitations)

Pursuant to 326 IAC 5-1-2, except as provided in 326 IAC 5-1-3 (Temporary Exemptions), 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.

326 IAC 6-4 (Fugitive Dust Emissions Limitations)

Pursuant to 326 IAC 6-4, 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.

326 IAC 6-5 (Fugitive Particulate Matter Emission Limitations)

This source is subject to 326 IAC 6-5, since it is a new source of fugitive particulate matter emissions, requiring a permit as set forth in 326 IAC 2, and which did not receive all the necessary preconstruction approvals before December 13, 1985. A Fugitive Dust Control Plan (FDCP) was submitted on April 7, 2009. It will be incorporated into this Part 70 Operating Permit as Attachment A.

State Rule Applicability - Fermentation Process

326 IAC 8-1-6 (VOC rules: New Facilities; General Reduction)

- (a) The bakery lines, Moline I through Moline VI, each have potential VOC emissions greater than twenty-five (25) tons per year. The source shall limit VOC emissions from the fermentation process for each bakery line to 24.4 tons per year to render the requirements of 326 IAC 8-1-6 not applicable.
- (b) The requirements of 326 IAC 8-1-6 are not applicable to any other facilities at this source, since they each do not have the potential to emit greater than twenty-five (25) tons of VOCs per year. There are no other rules within 326 IAC 8 that are applicable to any other emission unit at this source.

State Rule Applicability - Fryers, Revent Ovens, Boilers, Water and Space Heaters, Heating and Air Conditioning and Air Makeup Air Units

326 IAC 6-2 (Particulate Emissions from Indirect Heating Units)

- (a) The natural gas-fired fryers, revent ovens, space heaters, heating and air conditioning (HVAC) units and makeup air (MUA) units are not subject to 326 IAC 6-2 as they are not sources of indirect heating.
- (b) The natural gas-fired boilers and water heaters are subject to the requirements of 326 IAC 6-2-3, since each of the units are sources of indirect heating, were constructed after September 21, 1983, and are located in Hendricks County.

The particulates for the boilers and water heaters are limited by the following equation:

$$Pt = 1.09 / (Q)^{0.26}$$

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.

Limit for Ajax Boiler:

$$Pt = 1.09 / (6.3)^{0.26} = 0.67 \text{ lb/MMBtu}$$

However, 326 IAC 6-2-4 states that for boilers constructed after September 21, 1983 and having Q less than 10 MMBtu/hr, Pt shall not exceed 0.60 lb/MMBtu. Hence the particulate limit for Ajax Boiler is 0.60 lb/MMBtu. The potential particulate matter emissions from the Ajax Boiler are less than this limit, therefore, it is in compliance with this rule.

Limit for Ajax Boiler #2:

$$Pt = 1.09 / (12.6)^{0.26} = 0.56 \text{ lb/MMBtu}$$

Pursuant to 326 IAC 6-2-4, as each new indirect heating facility is added to a plant, Q will increase. Hence Q for the second boiler becomes 12.6 MMBtu/hr and the particulate limit

for the Ajax Boiler #2 is 0.56 lb/MMBtu. The potential particulate matter emissions from the Ajax Boiler #2 are less than this limit, therefore, it is in compliance with this rule.

Limit for first water heater, EU24
 $Pt = 1.09 / (12.9)^{0.26} = 0.56 \text{ lb/MMBtu}$

Pursuant to 326 IAC 6-2-4, as each new indirect heating facility is added to a plant, Q will increase. Hence Q for the first water heater becomes 12.9 MMBtu/h and the particulate limit for EU24 is 0.56 lb/MMBtu. The potential particulate matter emissions from EU24 are less than this limit, therefore, it is in compliance with this rule.

Limit for second water heater, EU33
 $Pt = 1.09 / (13.2)^{0.26} = 0.56 \text{ lb/MMBtu}$

Pursuant to 326 IAC 6-2-4, as each new indirect heating facility is added to a plant, Q will increase. Hence Q for the second water heater becomes 13.2 MMBtu/hr and the particulate limit for EU33 is 0.56 lb/MMBtu. The potential particulate matter emissions from EU33 are less than this limit, therefore, it is in compliance with this rule.

326 IAC 6-3 (Particulate Emission Limitations for Manufacturing Processes)

- (a) Pursuant to 326 IAC 6-3-2(e)(2), the allowable particulate emission rate from each natural gas fired fryer shall not exceed the 4.56 pounds per hour when operating at a process weight rate of 1.50 tons per hour.

The pound per hour limitations were calculated with the following equation:

Interpolation of the data in the table in 326 IAC 6-3-2(e)(2) for the process weight rates up to sixty thousand (60,000) pounds per hour shall be accomplished by use of the equation:

$E = 4.10 P^{0.67}$ where E = rate of emission in pounds per hour, and

P = process weight rate in tons per hour

Since the potential emissions are less than the allowable emissions, the Moline fryers will be in compliance with this requirement.

- (b) Pursuant to 326 IAC 6-3-1(b)(14), the revent ovens, space heaters and HVAC and MUA units are each exempt from the requirements of 326 IAC 6-3, because they each have a potential particulate emissions less than five hundred fifty-one thousandths (0.551) pound per hour.
- (c) Pursuant to 326 IAC 6-3-1(b)(1), the boilers and water heaters are each exempt from the requirements of 326 IAC 6-3, because they each are a source of indirect heating.

326 IAC 7-1 (Sulfur dioxide emission limitations: applicability)

The fryers, revent ovens, boilers, water heaters, space heaters and HVAC and MUA units are not subject to the requirements of 326 IAC 7-1, because the potential and the actual emissions are less than twenty-five (25) tons per year and ten (10) pounds per hour respectively.

State Rule Applicability - Dry Ingredient Storage and Conveyance

326 IAC 6-3 (Particulate Emission Limitations for Manufacturing Processes)

The requirements of 326 IAC 6-3 are applicable to each of the dry ingredient storage and conveyance emission units. Pursuant to 326 IAC 6-3-2(e)(2), the particulate emissions from each dry ingredient storage and conveyance emission units shall not exceed 16.86 pounds per hour when operating at a process weight rate of 16,500 pounds per hour each, as determined by the following:

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

Interpolation of the data in the table in 326 IAC 6-3-2(e)(2) for the process weight rates up to sixty thousand (60,000) pounds per hour shall be accomplished by use of the equation:

$$E = 4.10 P^{0.67}$$

where E = rate of emission in pounds per hour, and

P = process weight rate in tons per hour

Pursuant to 326 IAC 6-3-2, the particulate emissions from each of the dry ingredient storage and conveyance emission units shall not exceed the allowable PM emission rate as listed in the table below:

Emission Unit Type	Maximum Process Weight Rate (tons/hr)	326 IAC 6-3-2 Allowable PM Emission Rate (lbs/hr)
Flour Silos (3)	6	13.62
Minor Ingredient Silos (2)	2.25	7.06
Use Bins (13)	8.25	16.86
Scale Hoppers (15)	8.25	16.86

- (a) In order to comply with the allowable rate of emission, particulate from the flour silos (EU01 and EU02) shall be controlled by a baghouse at all times that each of the flour silos are in operation.
- (b) In order to comply with the allowable rate of emission, particulate from the remaining flour silo (EU03), minor ingredient silos and use bins shall be controlled by the central dust collector unit at all times that each of these units are in operation.
- (c) In order to comply with the allowable rate of emission, particulate from each scale hopper shall be controlled by a dry filter unit at all times that each of these units are in operation.

Compliance Determination and Monitoring Requirements

Permits issued under 326 IAC 2-7 are required to ensure that sources can demonstrate compliance with all applicable state and federal rules on a continuous basis. All state and federal rules contain compliance provisions; however, these provisions do not always fulfill the requirement for a continuous demonstration. When this occurs, IDEM, OAQ, in conjunction with the source, must develop specific conditions to satisfy 326 IAC 2-7-5. As a result, Compliance Determination Requirements are included in the permit. The Compliance Determination Requirements in Section D of the permit are those conditions that are found directly within state and federal rules and the violation of which serves as grounds for enforcement action.

If the Compliance Determination Requirements are not sufficient to demonstrate continuous compliance, they will be supplemented with Compliance Monitoring Requirements, also in Section D of the permit. Unlike Compliance Determination Requirements, failure to meet Compliance Monitoring conditions would serve as a trigger for corrective actions and not grounds for enforcement action. However, a violation in relation to a compliance monitoring condition will arise through a source's failure to take the appropriate corrective actions within a specific time period.

The compliance determination requirements for this source are as follows:

(a) Fermentation Process (for bakery lines Moline I through Moline VI)

Volatile Organic Compounds

- (1) Compliance with the VOC limit contained in D.1.1 shall be determined by the following equation:

$$\sum_{m=1}^{12} \left(\sum_{i=1}^n \frac{E_i * B_i}{2000lb / ton} \right)_m \leq 24.4 \text{ tons of VOC per twelve consecutive month period}$$

where:

B_i = The amount of dough of type i produced during month m (tons/month);

E_i = The VOC emission factor for type i dough (lb of VOC/ton of dough); and

m = The compliance period is one (1) calendar month.

- (2) The emission factor for each type of dough made shall be calculated using the following equation:

$$E = 0.95Y + 0.195t_i - 0.51S - 0.86t_s + 1.90$$

Where:

E = Pounds of VOC per ton of baked dough;

Y = Initial baker's percent of yeast;

t_i = Total yeast action time in hours;

S = Final (spike) baker's percent of yeast; and

t_s = Spiking time in hours.

These compliance monitoring requirements are necessary to render 326 IAC 8-1-6 (BACT) not applicable.

(b) Dry Ingredient Storage and Conveyance

(1) Particulate Control

- (a) In order to comply with Condition D.3.1, particulate from the flour silos, EU01 and EU02, shall be controlled by a baghouse at all times that each flour silo is in operation.

- (b) In the event that bag failure is observed in a multi-compartment baghouse unit, if operations will continue for ten (10) days or more after the failure is observed before the failed units will be repaired or replaced, the Permittee shall promptly notify the IDEM, OAQ of the expected date the failed units will be repaired or replaced. The notification shall also include the status of the applicable compliance monitoring parameters with respect to normal, and the results of any response actions taken up to the time of notification.
 - (c) In order to comply with Condition D.3.1, particulate from each of the dry ingredient storage and conveyance emission units, except EU01 and EU02, shall be controlled by a filter unit at all times that each of the dry ingredient storage and conveyance emission unit is in operation.
- (2) Visible Emission Notations
- (a) Visible emission notations from the pressure release openings of the five (5) storage silos shall be performed once per day during normal daylight operations when exhausting to the atmosphere. A trained employee shall record whether emissions are normal or abnormal.
 - (b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.
 - (c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.
 - (d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.
 - (e) If abnormal emissions are observed, the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions or Exceedances. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances, shall be considered a deviation from this permit.
- (3) Parametric Monitoring
- (a) The Permittee shall monitor the pressure alarms to the 13-qty Use Bins and 15-qty Scale Hoppers continuously with the Control System over the Batching Area. When either the low pressure "No Convey Alarm" or high pressure "High Pressure Alarm Check Filters to Mixer XX" alarm is active during production, the Permittee shall take reasonable response steps in accordance with Section C- Response to Excursions or Exceedances. An active alarm during production is not a deviation from this permit. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances, shall be considered a deviation from this permit.
 - (b) The instrument used for monitoring the pressure alarms shall comply with Section C - Instrument Specifications, of this permit, shall be subject to approval by IDEM, OAQ, and shall be calibrated at least once every six (6) months.

- (4) Broken or Failed Baghouse Detection
 - (a) For a single compartment baghouse unit controlling emissions from a process operated continuously, a failed unit and the associated process shall be shut down immediately until the failed unit has been repaired or replaced. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).
 - (b) Bag failure may be indicated by a significant drop in the baghouse's pressure readings with abnormal visible emissions, by an opacity violation, or by other means, such as gas temperatures, flow rates, air infiltration, leaks, dust traces or triboflows.

These compliance monitoring requirements are necessary because each of the baghouse and filter units must operate properly to ensure compliance with 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), 326 IAC 2-7-5 (Part 70), and 326 IAC 2-2 (PSD).

Recommendation

The staff recommends to the Commissioner that the Part 70 Operating Permit and Significant Source Modification 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 October 20, 2008. Additional information was received on November 25, 2008, February 5, 2009, February 10, 2009, April 2, 2009 and April 6, 2009.

Conclusion

The operation and construction of this bakery shall be subject to the conditions of the attached Part 70 Operating Permit No. T063-28023-00031 and Significant Source Modification No. 063-27849-00031, respectively.

Appendix A: Emission Calculations-Summary
Company Name: Maplehurst Bakeries, Inc.
Address City IN Zip: 50 Maplehurst Drive, Brownsburg, Indiana 46112
Title V Operating Permit: 063-28023-00031
Significant Source Modification No.: 063-27849-00031
Plant ID: 063-00031
Reviewer: Jean Boling
Date: 10/20/08

Uncontrolled/Unlimited Potential Emissions (tons/year)							
Emission Generating Activity							
Category	Pollutant	Storage and Conveying	Combustion	Frying	Fermentation	Fugitive	Total
Criteria Pollutants	PM	133.31	0.32	10.12	0.00	57.78	201.53
	PM _{10/2.5}	44.68	1.30	11.96	0.00	11.27	69.20
	SO ₂	0.00	0.10	0.00	0.00	0.00	0.10
	NO _x	0.00	17.06	0.00	0.00	0.00	17.06
	VOC	0.00	0.94	3.91	219.56	0.00	224.41
	CO	0.00	14.33	0.00	0.00	0.00	14.33
Hazardous Air Pollutants	Benzene	0.00	3.58E-04	0.00	0.00	0.00	0.00
	Dichlorobenzene	0.00	2.05E-04	0.00	0.00	0.00	0.00
	Formaldehyde	0.00	1.28E-02	0.00	0.00	0.00	0.01
	n-Hexane	0.00	3.16E-01	0.00	0.00	0.00	0.32
	Toluene	0.00	5.80E-04	0.00	0.00	0.00	0.00
	Lead	0.00	8.53E-05	0.00	0.00	0.00	0.00
	Cadmium	0.00	1.88E-04	0.00	0.00	0.00	0.00
	Chromium	0.00	2.39E-04	0.00	0.00	0.00	0.00
	Manganese	0.00	6.48E-05	0.00	0.00	0.00	0.00
	Nickel	0.00	3.58E-04	0.00	0.00	0.00	0.00
	Acetaldehyde	0.00	0.00	0.00	6.59	0.00	6.59
	Total HAPs	0.00	0.33	0.00	6.59	0.00	6.92
	Worst Case HAP						

Controlled/Limited Potential Emissions (tons/year)							
Emission Generating Activity							
Category	Pollutant	Storage and Conveying	Combustion	Frying	Fermentation	Fugitive	Total
Criteria Pollutants	PM	0.57	0.32	8.83	0.00	52.84	62.57
	PM _{10/2.5}	0.20	1.30	10.43	0.00	10.30	22.23
	SO ₂	0.00	0.10	0.00	0.00	0.00	0.10
	NO _x	0.00	17.06	0.00	0.00	0.00	17.06
	VOC	0.00	0.94	5.12	170.80	0.00	176.86
	CO	0.00	14.33	0.00	0.00	0.00	14.33
Hazardous Air Pollutants	Benzene	0.00	3.58E-04	0.00	0.00	0.00	0.00
	Dichlorobenzene	0.00	2.05E-04	0.00	0.00	0.00	0.00
	Formaldehyde	0.00	1.28E-02	0.00	0.00	0.00	0.01
	n-Hexane	0.00	3.16E-01	0.00	0.00	0.00	0.32
	Toluene	0.00	5.80E-04	0.00	0.00	0.00	0.00
	Lead	0.00	8.53E-05	0.00	0.00	0.00	0.00
	Cadmium	0.00	1.88E-04	0.00	0.00	0.00	0.00
	Chromium	0.00	2.39E-04	0.00	0.00	0.00	0.00
	Manganese	0.00	6.48E-05	0.00	0.00	0.00	0.00
	Nickel	0.00	3.58E-04	0.00	0.00	0.00	0.00
	Acetaldehyde	0.00	0.00	0.00	5.12	0.00	5.12
	Total HAPs	0.00	0.33	0.00	5.12	0.00	5.45
	Worst Case HAP						

Appendix A: Emission Calculations
Dry Ingredient Storage and Conveying
Company Name: Maplehurst Bakeries, Inc.
Address City IN Zip: 50 Maplehurst Drive, Brownsburg, Indiana 46112
Title V Operating Permit: 063-28023-00031
Significant Source Modification No.: 063-27849-00031
Plant ID: 063-00031
Reviewer: Jean Boling
Date: 10/20/08

Emission Unit		Maximum Capacity		Emission Factors		Uncontrolled		Controlled	
				PM lbs/ton	PM _{10/2.5} lbs/ton	PM tons/yr	PM _{10/2.5} tons/yr	PM tons/yr	PM _{10/2.5} tons/yr
ID #	Description	lbs/hr	tons/hr						
EU01-EU03	3 Flour Silos	12,000	6.00	3.14	1.10	82.52	28.91	0.5694	0.1995
EU04-EU05	2 Minor Ingredient Silos	4,500	2.25	3.14	1.10	30.94	10.84	0.0031	0.0011
EU06-EU18	13 Use Bins	16,500	8.25	0.0051	0.0024	0.18	0.09	0.0000	0.0000
EU19-EU33	15 Scale Hoppers/Mixers	16,500	8.25	0.5440	0.1340	19.66	4.84	0.0020	0.0005
Total						133.306	44.677	0.574	0.201

PM emission factor is filterable PM only. PM₁₀ emission factor is filterable and condensable PM₁₀ combined.
PM₁₀ is equal to PM_{2.5}

Methodology

Maximum transfer rate of storage & conveyance system: 16,500 lbs/hr
Maximum transfer rate of flour: 12,000 lbs/hr
Maximum transfer rate of minor ingredients: 4,500 lbs/hr

Maximum Capacity(lbs/hr) = Flour Capacity (lbs/hr) + Minor Ingredient Capacity (lbs/hr)
Throughput (tons/yr) = Maximum Capacity (lbs/hr) * 8,760 hrs/yr * 1 ton/2,000 lb:
Emission (tons/yr) = Throughput (tons/yr) * Emission Factor (lbs/ton) / 2,000 lbs/ton
The uncontrolled potential emissions of particulate from dry ingredient storage and conveying before controls are estimated using AP-42 Table 11.12-2 emission factors for the uncontrolled truck unloading of cement supplement to elevated storage silo (pneumatic) 3-05-011-17, weigh hopper loading (3-05-011-08) and mixer loading (3-05-011-09)

Abbreviations

PM = Particulate Matter
PM₁₀ = Particulate Matter (<10 um)
PM_{2.5} = Particulate Matter (<2.5 um)

Appendix A: Emission Calculations-Combustion Emissions
Company Name: Maplehurst Bakeries, Inc.
Address City IN Zip: 50 Maplehurst Drive, Brownsburg, Indiana 46112
Title V Operating Permit: 063-28023-00031
Significant Source Modification No.: 063-27849-00031
Plant ID: 063-00031
Reviewer: Jean Boling
Date: 10/20/08

						Pollutant		PM	PM _{10/2.5}	SO ₂	NO _x	VOC	CO
						Emission Factors lbs/cf		1.9E-06	7.6E-06	0.0000006	0.0001	0.0000055	0.000084
Emission Unit						Fuel Consumed		Potential Emission tons/yr					
ID	Description	Type	Install Date	Heat Input Btu/hr	Operating hrs/yr	Btu/cf	cf/yr	PM	PM _{10/2.5}	SO ₂	NO _x	VOC	CO
Moline I	Moline I	Fryer	Jul-93	1,400,000	8760	1030	11,906,796	0.011	0.045	0.004	0.595	0.033	0.500
Moline II	Moline II	Fryer	Dec-96	1,400,000	8760	1030	11,906,796	0.011	0.045	0.004	0.595	0.033	0.500
Moline III	Moline III	Fryer	Dec-98	1,400,000	8760	1030	11,906,796	0.011	0.045	0.004	0.595	0.033	0.500
Moline IV	Moline IV	Fryer	Feb-01	260,000	8760	1030	2,211,262	0.002	0.008	0.001	0.111	0.006	0.093
Moline V	Moline V	Fryer	Feb-02	840,000	8760	1030	7,144,078	0.007	0.027	0.002	0.357	0.020	0.300
Moline VI	Moline VI	Fryer	Feb-02	840,000	8760	1030	7,144,078	0.007	0.027	0.002	0.357	0.020	0.300
Moline VII	Moline VII	Fryer	Oct-08	1,300,000	8760	1030	11,056,311	0.011	0.042	0.003	0.553	0.030	0.464
Ajax	Ajax	Boiler	Sep-00	6,300,000	8760	1030	53,580,583	0.051	0.204	0.016	2.679	0.147	2.250
Ajax #2	Ajax #2	Boiler	Jun-03	6,300,000	8760	1030	53,580,583	0.051	0.204	0.016	2.679	0.147	2.250
EU34	Air Compressor Rm Gas Unit Space Htr #1	Space Htr	Jun-05	40,000	8760	1030	340,194	0.000	0.001	0.000	0.017	0.001	0.014
EU35	Air Compressor Rm Gas Unit Space Htr #2	Space Htr	Jun-05	30,000	8760	1030	255,146	0.000	0.001	0.000	0.013	0.001	0.011
EU36	Fire Pumpouse Gas Unit Space Htr	Space Htr	Jun-05	30,000	8760	1030	255,146	0.000	0.001	0.000	0.013	0.001	0.011
EU37	Hogfeed Room Gas Unit Space Htr	Space Htr	Oct-94	40,000	8760	1030	340,194	0.000	0.001	0.000	0.017	0.001	0.014
EU38	Lab Revent Oven	Oven	Jun-05	170,000	8760	1030	1,445,825	0.001	0.005	0.000	0.072	0.004	0.061
EU39	Maintenance Hot Water Htr	Water Htr	Jun-05	199,000	8760	1030	1,692,466	0.002	0.006	0.001	0.085	0.005	0.071
EU40	Maintenance Shop Gas Unit Space Htr	Space Htr	Jun-05	30,000	8760	1030	255,146	0.000	0.001	0.000	0.013	0.001	0.011
EU41	MAU 10	MAU	Jun-95	4,125,000	8760	1030	35,082,524	0.033	0.133	0.011	1.754	0.096	1.473
EU42	MAU 2	MAU		833,118	8760	1030	7,085,547	0.007	0.027	0.002	0.354	0.019	0.298
EU43	MAU 3	MAU		833,118	8760	1030	7,085,547	0.007	0.027	0.002	0.354	0.019	0.298
EU44	MAU 4	MAU		250,000	8760	1030	2,126,214	0.002	0.008	0.001	0.106	0.006	0.089
EU45	MAU 5	MAU		300,000	8760	1030	2,551,456	0.002	0.010	0.001	0.128	0.007	0.107
EU46	MAU 6	MAU		225,000	8760	1030	1,913,592	0.002	0.007	0.001	0.096	0.005	0.080
EU47	MAU 9	MAU	2001	4,050,000	8760	1030	34,444,660	0.033	0.131	0.010	1.722	0.095	1.447
EU48	Moline 2 Hot Water Htr	Water Htr	Jun-05	370,000	8760	1030	3,146,796	0.003	0.012	0.001	0.157	0.009	0.132
EU49	MUA 1	MAU		225,000	8760	1030	1,913,592	0.002	0.007	0.001	0.096	0.005	0.080
EU50	RTU 1	RTU	May-94	855,000	8760	1030	7,271,650	0.007	0.028	0.002	0.364	0.020	0.305
EU51	RTU 11	RTU	May-94	161,500	8760	1030	1,373,534	0.001	0.005	0.000	0.069	0.004	0.058
EU52	RTU 12	RTU	May-94	250,000	8760	1030	2,126,214	0.002	0.008	0.001	0.106	0.006	0.089
EU53	RTU 13	RTU	Oct-08	400,000	8760	1030	3,401,942	0.003	0.013	0.001	0.170	0.009	0.143
EU54	RTU 15	RTU	Mar-94	135,000	8760	1030	1,148,155	0.001	0.004	0.000	0.057	0.003	0.048
EU55	RTU 16	RTU	Oct-08	400,000	8760	1030	3,401,942	0.003	0.013	0.001	0.170	0.009	0.143
EU56	RTU 17	RTU	Oct-08	400,000	8760	1030	3,401,942	0.003	0.013	0.001	0.170	0.009	0.143
EU57	RTU 18	RTU	Oct-08	400,000	8760	1030	3,401,942	0.003	0.013	0.001	0.170	0.009	0.143

Appendix A: Emission Calculations-Combustion Emissions Continued
Company Name: Maplehurst Bakeries, Inc.
Address City IN Zip: 50 Maplehurst Drive, Brownsburg, Indiana 46112
Significant Source Modification No.: 063-27849-00031
Title V Operating Permit: 063-28023-00031
Plant ID: 063-00031
Reviewer: Jean Boling
Date: 10/20/08

						Pollutant		PM	PM _{10/2.5}	SO ₂	NO _x	VOC	CO
						Emission Factors lbs/cf		1.9E-06	7.6E-06	0.0000006	0.0001	0.0000055	0.000084
Emission Unit/Activity						Fuel Consumed		Potential Emission tons/yr					
ID #	Description	Type	Install Date	Heat Input Btu/hr	Operating hrs/yr	Btu/cf	cf/yr	PM	PM _{10/2.5}	SO ₂	NO _x	VOC	CO
EU58	RTU 19	RTU	Mar-94	100,000	8760	1030	850,485	0.001	0.003	0.000	0.043	0.002	0.036
EU59	RTU 20	RTU	May-94	855,000	8760	1030	7,271,650	0.007	0.028	0.000	0.364	0.020	0.305
EU60	RTU 21	RTU	Mar-94	100,000	8760	1030	850,485	0.001	0.003	0.000	0.043	0.002	0.036
EU61	RTU 22	RTU	Mar-94	250,000	8760	1030	2,126,214	0.002	0.008	0.001	0.106	0.006	0.089
EU62	RTU 23	RTU	Mar-94	250,000	8760	1030	2,126,214	0.002	0.008	0.001	0.106	0.006	0.089
EU63	RTU 25	RTU	Feb-02	40,000	8760	1030	340,194	0.000	0.001	0.000	0.017	0.001	0.014
EU64	RTU 26	RTU	Feb-02	60,000	8760	1030	510,291	0.000	0.002	0.000	0.026	0.001	0.021
EU65	RTU 27	RTU	Feb-02	80,000	8760	1030	680,388	0.001	0.003	0.000	0.034	0.002	0.029
EU66	RTU 28	RTU	Feb-02	150,000	8760	1030	1,275,728	0.001	0.005	0.000	0.064	0.004	0.054
EU67	RTU 3	RTU	May-94	855,000	8760	1030	7,271,650	0.007	0.028	0.002	0.364	0.020	0.305
EU68	RTU 4	RTU	May-94	436,800	8760	1030	3,714,920	0.004	0.014	0.001	0.186	0.010	0.156
EU69	RTU 5	RTU	May-94	560,000	8760	1030	4,762,718	0.005	0.018	0.001	0.238	0.013	0.200
EU70	RTU 7	RTU	May-94	855,000	8760	1030	7,271,650	0.007	0.028	0.002	0.364	0.020	0.305
EU71	RTU 8	RTU	May-94	560,000	8760	1030	4,762,718	0.005	0.018	0.001	0.238	0.013	0.200
EU72	Tech Center Revent Oven	Oven	Jun-05	177,000	8760	1030	1,505,359	0.001	0.006	0.000	0.075	0.004	0.063
Total								0.32	1.30	0.10	17.06	0.94	14.33

PM emission factor is filterable PM only. PM₁₀ emission factor is filterable and condensable PM₁₀ combined.

Methodology

Potential Throughput (MMCF) = Heat Input Capacity (MMBtu/hr) * 8,760 hrs/yr * 1 MMCF/1,000 MMBtu

Emission (tons/yr) = Throughput (cf/yr) * Emission Factor (lbs/cf) / 2,000 lbs/ton

Emission Factors are based on AP-42 Emission Factors for natural gas combustion (<100MMBtu/hr) 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 (SUPPLEMENT D 3/98)

All emission factors are based on normal firing.

MMBtu = 1,000,000 Btu, MMCF = 1,000,000 Cubic Feet of Gas

Abbreviations

PM = Particulate Matter

PM₁₀ = Particulate Matter (<10 um)

PM_{2.5} = Particulate Matter (<2.5 um)

SO₂ = Sulfur Dioxide

NO_x = Oxides of Nitrogen

VOC = Volatile Organic Compounds

CO = Carbon Monoxide

Appendix A: Emission Calculations-Combustion Emissions Continued
Company Name: Maplehurst Bakeries, Inc.
Address City IN Zip: 50 Maplehurst Drive, Brownsburg, Indiana 46112
Title V Operating Permit: 063-28023-00031
Plant ID: 063-00031
Reviewer: Jean Boling
Date: 10/20/08

Pollutant		Benzene	DCB	Formaldehyde	n-Hexane	Toluene	Lead	Cadmium	Chromium	Manganese	Nickel		
Emission Factors lbs/cf		2.1E-09	1.2E-09	0.000000075	0.0000018	3.4E-09	5E-10	1.1E-09	1.4E-09	3.8E-10	2.1E-09		
ID	Emission Unit Description	Type	Install Date	Benzene	DCB	Formaldehyde	n-Hexane	Toluene	Lead	Cadmium	Chromium	Manganese	Nickel
Moline I	Moline I	Fryer	Jul-93	1.25E-05	7.14E-06	0.000446505	0.0107161	2.02E-05	2.98E-06	6.549E-06	8.3348E-06	2.2623E-06	1.25E-05
Moline II	Moline II	Fryer	Dec-96	1.25E-05	7.14E-06	0.000446505	0.0107161	2.02E-05	2.98E-06	6.549E-06	8.3348E-06	2.2623E-06	1.25E-05
Moline III	Moline III	Fryer	Dec-98	1.25E-05	7.14E-06	0.000446505	0.0107161	2.02E-05	2.98E-06	6.549E-06	8.3348E-06	2.2623E-06	1.25E-05
Moline IV	Moline IV	Fryer	Feb-01	2.322E-06	1.33E-06	8.29223E-05	0.0019901	3.76E-06	5.53E-07	1.216E-06	1.5479E-06	4.2014E-07	2.32E-06
Moline V	Moline V	Fryer	Feb-02	7.501E-06	4.29E-06	0.000267903	0.0064297	1.21E-05	1.79E-06	3.929E-06	5.0009E-06	1.3574E-06	7.5E-06
Moline VI	Moline VI	Fryer	Feb-02	7.501E-06	4.29E-06	0.000267903	0.0064297	1.21E-05	1.79E-06	3.929E-06	5.0009E-06	1.3574E-06	7.5E-06
Moline VII	Moline VII	Fryer	Oct-08	1.161E-05	6.63E-06	0.000414612	0.0099507	1.88E-05	2.76E-06	6.081E-06	7.7394E-06	2.1007E-06	1.16E-05
Ajax	Ajax	Boiler	Sep-00	5.626E-05	3.21E-05	0.002009272	0.0482225	9.11E-05	1.34E-05	2.947E-05	3.7506E-05	1.018E-05	5.63E-05
Ajax #2	Ajax #2	Boiler	Jun-03	5.626E-05	3.21E-05	0.002009272	0.0482225	9.11E-05	1.34E-05	2.947E-05	3.7506E-05	1.018E-05	5.63E-05
EU19	Air Compressor Rm Gas Unit Space Htr #1	Space Htr	Jun-05	3.572E-07	2.04E-07	1.27573E-05	0.0003062	5.78E-07	8.5E-08	1.871E-07	2.3814E-07	6.4637E-08	3.57E-07
EU20	Air Compressor Rm Gas Unit Space Htr #2	Space Htr	Jun-05	2.679E-07	1.53E-07	9.56796E-06	0.0002296	4.34E-07	6.38E-08	1.403E-07	1.786E-07	4.8478E-08	2.68E-07
EU21	Fire Pumpouse Gas Unit Space Htr	Space Htr	Jun-05	2.679E-07	1.53E-07	9.56796E-06	0.0002296	4.34E-07	6.38E-08	1.403E-07	1.786E-07	4.8478E-08	2.68E-07
EU22	Hogfeed Room Gas Unit Space Htr	Space Htr	Oct-94	3.572E-07	2.04E-07	1.27573E-05	0.0003062	5.78E-07	8.5E-08	1.871E-07	2.3814E-07	6.4637E-08	3.57E-07
EU23	Lab Revent Oven	Oven	Jun-05	1.518E-06	8.67E-07	5.42184E-05	0.0013012	2.46E-06	3.61E-07	7.952E-07	1.0121E-06	2.7471E-07	1.52E-06
EU24	Maintenance Hot Water Htr	Water Htr	Jun-05	1.777E-06	1.02E-06	6.34675E-05	0.0015232	2.88E-06	4.23E-07	9.309E-07	1.1847E-06	3.2157E-07	1.78E-06
EU25	Maintenance shop Gas Unit Space Htr	Space Htr	Jun-05	2.679E-07	1.53E-07	9.56796E-06	0.0002296	4.34E-07	6.38E-08	1.403E-07	1.786E-07	4.8478E-08	2.68E-07
EU26	MAU 10	MAU	Jun-95	3.684E-05	2.1E-05	0.001315595	0.0315743	5.96E-05	8.77E-06	1.93E-05	2.4558E-05	6.6657E-06	3.68E-05
EU27	MAU 2	MAU		7.44E-06	4.25E-06	0.000265708	0.006377	1.2E-05	1.77E-06	3.897E-06	4.9599E-06	1.3463E-06	7.44E-06
EU28	MAU 3	MAU		7.44E-06	4.25E-06	0.000265708	0.006377	1.2E-05	1.77E-06	3.897E-06	4.9599E-06	1.3463E-06	7.44E-06
EU29	MAU 4	MAU		2.233E-06	1.28E-06	7.9733E-05	0.0019136	3.61E-06	5.32E-07	1.169E-06	1.4883E-06	4.0398E-07	2.23E-06
EU30	MAU 5	MAU		2.679E-06	1.53E-06	9.56796E-05	0.0022963	4.34E-06	6.38E-07	1.403E-06	1.786E-06	4.8478E-07	2.68E-06
EU31	MAU 6	MAU		2.009E-06	1.15E-06	7.17597E-05	0.0017222	3.25E-06	4.78E-07	1.052E-06	1.3395E-06	3.6358E-07	2.01E-06
EU32	MAU 9	MUA	2001	3.617E-05	2.07E-05	0.001291675	0.0310002	5.86E-05	8.61E-06	1.894E-05	2.4111E-05	6.5445E-06	3.62E-05
EU33	Moline 2 Hot Water Htr	Water Htr	Jun-05	3.304E-06	1.89E-06	0.000118005	0.0028321	5.35E-06	7.87E-07	1.731E-06	2.2028E-06	5.9789E-07	3.3E-06
EU34	MUA 1	MAU		2.009E-06	1.15E-06	7.17597E-05	0.0017222	3.25E-06	4.78E-07	1.052E-06	1.3395E-06	3.6358E-07	2.01E-06
EU35	RTU 1	RTU	May-94	7.635E-06	4.36E-06	0.000272687	0.0065445	1.24E-05	1.82E-06	3.999E-06	5.0902E-06	1.3816E-06	7.64E-06
EU36	RTU 11	RTU	May-94	1.442E-06	8.24E-07	5.15075E-05	0.0012362	2.34E-06	3.43E-07	7.554E-07	9.6147E-07	2.6097E-07	1.44E-06
EU37	RTU 12	RTU	May-94	2.233E-06	1.28E-06	7.9733E-05	0.0019136	3.61E-06	5.32E-07	1.169E-06	1.4883E-06	4.0398E-07	2.23E-06
EU38	RTU 13	RTU	Oct-08	3.572E-06	2.04E-06	0.000127573	0.0030617	5.78E-06	8.5E-07	1.871E-06	2.3814E-06	6.4637E-07	3.57E-06
EU39	RTU 15	RTU	Mar-94	1.206E-06	6.89E-07	4.30558E-05	0.0010333	1.95E-06	2.87E-07	6.315E-07	8.0371E-07	2.1815E-07	1.21E-06
EU40	RTU 16	RTU	Oct-08	3.572E-06	2.04E-06	0.000127573	0.0030617	5.78E-06	8.5E-07	1.871E-06	2.3814E-06	6.4637E-07	3.57E-06
EU41	RTU 17	RTU	Oct-08	3.572E-06	2.04E-06	0.000127573	0.0030617	5.78E-06	8.5E-07	1.871E-06	2.3814E-06	6.4637E-07	3.57E-06
EU42	RTU 18	RTU	Oct-08	3.572E-06	2.04E-06	0.000127573	0.0030617	5.78E-06	8.5E-07	1.871E-06	2.3814E-06	6.4637E-07	3.57E-06
EU43	RTU 19	RTU	Mar-94	8.93E-07	5.1E-07	3.18932E-05	0.0007654	1.45E-06	2.13E-07	4.678E-07	5.9534E-07	1.6159E-07	8.93E-07
EU44	RTU 2	RTU	May-94	7.635E-06	4.36E-06	0.000272687	0.0065445	1.24E-05	1.82E-06	3.999E-06	5.0902E-06	1.3816E-06	7.64E-06

Appendix A: Emission Calculations-Combustion Emissions Continued
Company Name: Maplehurst Bakeries, Inc.
Address City IN Zip: 50 Maplehurst Drive, Brownsburg, Indiana 46112
Title V Operating Permit: 063-28023-00031
Plant ID: 063-00031
Reviewer: Jean Boling
Date: 10/20/08

Pollutant		Benzene	DCB	Formaldehyde	n-Hexane	Toluene	Lead	Cadmium	Chromium	Manganese	Nickel		
Emission Factors lbs/cf		2.1E-09	1.2E-09	0.000000075	0.0000018	3.4E-09	5E-10	1.1E-09	1.4E-09	3.8E-10	2.1E-09		
Emission Unit		Potential Emissions tons/yr											
ID	Description	Type	Install Date	Benzene	DCB	Formaldehyde	n-Hexane	Toluene	Lead	Cadmium	Chromium	Manganese	Nickel
EU45	RTU 21	RTU	Mar-94	8.93E-07	5.1E-07	3.18932E-05	0.0007654	1.45E-06	2.13E-07	4.678E-07	5.9534E-07	1.6159E-07	8.93E-07
EU46	RTU 22	RTU	Mar-94	2.233E-06	1.28E-06	7.9733E-05	0.0107161	3.61E-06	5.32E-07	1.169E-06	1.4883E-06	4.0398E-07	2.23E-06
EU47	RTU 23	RTU	Mar-94	2.233E-06	1.28E-06	7.9733E-05	0.0019136	3.61E-06	5.32E-07	1.169E-06	1.4883E-06	4.0398E-07	2.23E-06
EU48	RTU 25	RTU	Feb-02	3.572E-07	2.04E-07	1.27573E-05	0.0003062	5.78E-07	8.5E-08	1.871E-07	2.3814E-07	6.4637E-08	3.57E-07
EU49	RTU 26	RTU	Feb-02	5.358E-07	3.06E-07	1.91359E-05	0.0004593	8.67E-07	1.28E-07	2.807E-07	3.572E-07	9.6955E-08	5.36E-07
EU50	RTU 27	RTU	Feb-02	7.144E-07	4.08E-07	2.55146E-05	0.0006123	1.16E-06	1.7E-07	3.742E-07	4.7627E-07	1.2927E-07	7.14E-07
EU51	RTU 28	RTU	Feb-02	1.34E-06	7.65E-07	4.78398E-05	0.0011482	2.17E-06	3.19E-07	7.017E-07	8.9301E-07	2.4239E-07	1.34E-06
EU52	RTU 3	RTU	May-94	7.635E-06	4.36E-06	0.000272687	0.0065445	1.24E-05	1.82E-06	3.999E-06	5.0902E-06	1.3816E-06	7.64E-06
EU53	RTU 4	RTU	May-94	3.901E-06	2.23E-06	0.00013931	0.0033434	6.32E-06	9.29E-07	2.043E-06	2.6004E-06	7.0583E-07	3.9E-06
EU54	RTU 5	RTU	May-94	5.001E-06	2.86E-06	0.000178602	0.0042864	8.1E-06	1.19E-06	2.619E-06	3.3339E-06	9.0492E-07	5E-06
EU55	RTU 7	RTU	May-94	7.635E-06	4.36E-06	0.000272687	0.0065445	1.24E-05	1.82E-06	3.999E-06	5.0902E-06	1.3816E-06	7.64E-06
EU56	RTU 8	RTU	May-94	5.001E-06	2.86E-06	0.000178602	0.0042864	8.1E-06	1.19E-06	2.619E-06	3.3339E-06	9.0492E-07	5E-06
EU57	Tech Center Revent Oven	Oven	Jun-05	1.581E-06	9.03E-07	5.6451E-05	0.0013548	2.56E-06	3.76E-07	8.279E-07	1.0538E-06	2.8602E-07	1.58E-06
Total				3.58E-04	2.05E-04	1.28E-02	3.16E-01	5.80E-04	8.53E-05	1.88E-04	2.39E-04	6.48E-05	3.58E-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

Potential Throughput (MMCF) = Heat Input Capacity (MMBtu/hr) * 8,760 hrs/yr * 1 MMCF/1,000 MMBtu

Emission (tons/yr) = Throughput (cf/yr) * Emission Factor (lbs/cf) / 2,000 lbs/ton

Emission Factors are based on AP-42 Emission Factors for natural gas combustion (<100MMBtu/hr) 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 (SUPPLEMENT D 3/98)

All emission factors are based on normal firing.

MMBtu = 1,000,000 Btu, MMCF = 1,000,000 Cubic Feet of Gas

Abbreviations

DCB = Dichlorobenzene

Appendix A: Emission Calculations-Frying Emissions
Company Name: Maplehurst Bakeries, Inc.
Address City IN Zip: 50 Maplehurst Drive, Brownsburg, Indiana 46112
Title V Operating Permit: 063-28023-00031
Significant Source Modification No.: 063-27849-00031
Plant ID: 063-00031
Reviewer: Jean Boling
Date: 10/20/08

Fryer	Maximum Capacity lbs/hr	Operating hours	Maximum Throughput ton/yr	Emission Factors			Potential Emissions			
				VOC lbs/ton	PM lbs/ton	PM _{10/2.5} lbs/ton	VOC tons/yr	PM tons/yr	PM _{10/2.5} tons/yr	
Moline I	3000	8,760	13,140	0.085	0.220	0.26	0.558	1.445	1.71	
Moline II	3000	8,760	13,140	0.085	0.220	0.26	0.558	1.445	1.71	
Moline III	3000	8,760	13,140	0.085	0.220	0.26	0.558	1.445	1.71	
Moline IV	3000	8,760	13,140	0.085	0.220	0.26	0.558	1.445	1.71	
Moline V	3000	8,760	13,140	0.085	0.220	0.26	0.558	1.445	1.71	
Moline VI	3000	8,760	13,140	0.085	0.220	0.26	0.558	1.445	1.71	
Moline VII	3000	8,760	13,140	0.085	0.220	0.26	0.558	1.445	1.71	
Total								3.91	10.12	11.96

PM emission factor is filterable PM only. PM₁₀ emission factor is filterable and condensable PM₁₀ combined.

Methodology

Potential Throughput (tons/yr) = Maximum Capacity (lbs/hr) * 8,760 hrs/yr * 1 ton/2,000 lbs

Emission (tons/yr) = Throughput (tons/yr) * Emission Factor (lbs/ton) / 2,000 lbs/ton

Emission Factors are based on AP-42 Emission Factors for snack chip deep frying with standard mesh pad mist eliminator from Chapter 9.13, Tables 9.13.3-2 and 9.13.3-3

Abbreviations

PM = Particulate Matter

PM₁₀ = Particulate Matter (<10 um)

VOC = Volatile Organic Compounds

Appendix A: Emission Calculations-Fermentation Emissions
Company Name: Maplehurst Bakeries, Inc.
Address City IN Zip: 50 Maplehurst Drive, Brownsburg, Indiana 46112
Title V Operating Permit: 063-28023-00031
Significant Source Modification No.: 063-27849-00031
Plant ID: 063-00031
Reviewer: Jean Boling
Date: 10/20/08

Bakery Line	Product	Maximum Capacity (lbs/hr)	Average Sponge % Yeast	Dough % Yeast	Ferm Time hour	Spike Time hour	VOC lbs/ton	Potential Emissions								
								Unlimited PTE							Limited VOC tons/yr	Limited Acetaldehyde tons/yr
								Maximum Production hours/yr	Maximum Throughput tons/yr	Unlimited VOC lbs/yr	Unlimited VOC tons/yr	Unlimited Acetaldehyde tons/yr				
Moline I	yeast product	3000	3.9000	0.0000	1.2	0.00	5.84	8760	13140.00	76724.46	38.36	1.15	24.40	0.73		
Moline II	yeast product	3000	3.6000	0.0000	1.2	0.00	5.55	8760	13140.00	72979.56	36.49	1.09	24.40	0.73		
Moline III	yeast product	3000	3.7000	0.0000	1.2	0.00	5.65	8760	13140.00	74227.86	37.11	1.11	24.40	0.73		
Moline IV	yeast product	3000	3.4000	0.0000	1.2	0.00	5.36	8760	13140.00	70482.96	35.24	1.06	24.40	0.73		
Moline V	yeast product	3000	3.5000	0.0000	1.2	0.00	5.46	8760	13140.00	71731.26	35.87	1.08	24.40	0.73		
Moline VI	yeast product	3000	3.6000	0.0000	1.2	0.00	5.55	8760	13140.00	72979.56	36.49	1.09	24.40	0.73		
Moline VII	cake product	3000	0.0000	0.0000	0.0	0.00	0.00	8760	13140.00	0.00	0.00	0.00	24.40	0.73		
Total										219.56	6.59	170.80	5.12			

Methodology

Potential Throughput (tons/yr) = Maximum Capacity (lbs/hr) * 8,760 hrs/yr * 1 ton/2,000 lbs
 Emission (tons/yr) = Throughput (tons/yr) * Emission Factor (lbs/ton) / 2,000 lbs/ton
 Emission Factors are based on AP-42 Section 9.9.6

The process VOC emissions calculations for the donut dough fermentation are based upon the following EPA recommended bakery oven emissions AP-42 Section 9.9.6.

$$VOC = 0.95Y_i + 0.195t_i - 0.51S - 0.86t_s + 1.90$$

Where: VOC = pounds per ton of dough

- Y_i = initial baker's percent of yeast to the nearest tenth
- t_i = total yeast action time in hours to the nearest tenth
- S = final (spike) baker's percent of yeast to the nearest tenth
- t_s = spiking time in hours to the nearest tenth.

VOCs emitted during fermentation (leavening) assumed to be 97% ethanol and 3% acetaldehyde (VOC/HAP), based on the following document and supporting information:

1. "Alternative Control Technology Document for Bakery Oven Emissions" (EPA 453/R-92-017, December 1992)
2. Henderson, D.C., 1977, "Commercial Bakeries as a Major Source of Reactive Volatile Organic Gases", U.S. EPA, Region XI Surveillance and Analysis Division

Appendix A: Emission Calculations
Paved Roads - Fugitive Emissions
Company Name: Maplehurst Bakeries, Inc.
Address City IN Zip: 50 Maplehurst Drive, Brownsburg, Indiana 46112
Title V Operating Permit: 063-28023-00031
Significant Source Modification No.: 063-27849-00031
Plant ID: 063-00031
Reviewer: Jean Boling
Date: 10/20/08

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 (12/2003).

Vehicle Information (provided by source)

Type	Maximum number of vehicles	Number of one-way trips per day per vehicle	Maximum trips per day (trip/day)	Maximum Weight of Vehicle and Load (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)
Truck (bagged and/or boxed ingredients in)	4	4	16	40.25	644	533	0.101	1.6
Truck (bagged and/or boxed ingredients exiting site)	4	4	16	40.25	644	1271	0.241	3.9
Semitrailer Truck (bulk ingredients in)	5	5	25	64	1600	1588	0.301	7.5
Semi trailer Truck (empty truck exiting site)	5	5	25	40	1000	1271	0.241	6.0
Semi trailer Truck (empty truck entering)	15	15	225	40	9000	533	0.101	22.7
Semitrailer Truck (product out)	15	15	225	40	9000	1271	0.241	54.2
Total			532		21888			95.9

Average Vehicle Weight Per Trip =

41.1

 tons/trip
 Average Miles Per Trip =

0.18

 miles/trip

Unmitigated Emission Factor, $E_f = [k * (sL/2)^{0.65} * (W/3)^{1.5} - C]$ (Equation 1 from AP-42 13.2.1)

	PM	PM10			
where k =	0.082	0.016	lb/mi = particle size multiplier (AP-42 Table 13.2.1-1)		
W =	41.1	41.1	tons = average vehicle weight (provided by source)		
C =	0.00047	0.00047	lb/mi = emission factor for vehicle exhaust, brake wear, and tire wear (AP-42 Table 13.2.1-2)		
sL =	1.4	1.4	g/m ² = Ubitiguous Silt Loading Values of typical paved roads (averaged for whole year)		
			sL (baseline) = <table border="1" style="display: inline-table;"><tr><td>0.6</td></tr></table> g/m ² for <table border="1" style="display: inline-table;"><tr><td>12</td></tr></table> months (see AP-42 Table 13.2.1-3)	0.6	12
0.6					
12					
			sL (winter) = <table border="1" style="display: inline-table;"><tr><td>2.4</td></tr></table> g/m ² for <table border="1" style="display: inline-table;"><tr><td>4</td></tr></table> months (see AP-42 Table 13.2.1-3)	2.4	4
2.4					
4					

Taking natural mitigation due to precipitation into conctor, $E_{ext} = E_f * [1 - (p/4N)]$

where p =

125

 days of rain greater than or equal to 0.01 inches (see Fig. 13.2.1-2)
 N =

365

 days per year

	PM	PM10	
Unmitigated Emission Factor, E_f =	3.30	0.64	lb/mile
Mitigated Emission Factor, E_{ext} =	3.02	0.59	lb/mile

Appendix A: Emission Calculations
Paved Roads - Fugitive Emissions
Company Name: Maplehurst Bakeries, Inc.
Address City IN Zip: 50 Maplehurst Drive, Brownsburg, Indiana 46112
Title V Operating Permit: 063-28023-00031
Significant Source Modification No.: 063-27849-00031
Plant ID: 063-00031
Reviewer: Jean Boling
Date: 10/20/08

Type	Unmitigated PTE of PM (tons/yr)	Unmitigated PTE of PM _{10/2.5} (tons/yr)	Mitigated PTE of PM (tons/yr)	Mitigated PTE of PM _{10/2.5} (tons/yr)
Truck (bagged and/or boxed ingredients in)	0.97	0.19	0.890	0.174
Truck (bagged and/or boxed ingredients exiting site)	2.32	0.45	2.123	0.414
Semitrailer Truck (ingredients in)	4.53	0.88	4.144	0.808
Semi trailer Truck (empty truck exiting site)	3.63	0.71	3.316	0.647
Semi trailer Truck (empty truck entering)	13.69	2.67	12.517	2.441
Semitrailer Truck (product out)	32.64	6.37	29.848	5.821
Totals	57.78	11.27	52.84	10.30

Appendix B: Lookback Emission Calculations-Summary Continued
Company Name: Maplehurst Bakeries, Inc.
Address City IN Zip: 50 Maplehurst Drive, Brownsburg, Indiana 46112
Title V Operating Permit: 063-28023-00031
Significant Source Modification No.: 063-27849-00031
Plant ID: 063-00031
Reviewer: Jean Boling
Date: 10/20/08

		Uncontrolled/Unlimited Potential Emissions (tons/year)						
		Criteria Pollutant						
Year	Emission Unit/Activity	PM	PM ₁₀	PM _{2.5}	SO ₂	NO _x	VOC	CO
2005	Combustion	0.03	0.12	0.12	0.01	1.58	0.09	1.33
	2005 Modification Totals	0.03	0.12	0.12	0.01	1.58	0.09	1.33
	Entire Source Totals	190.61	73.16	73.16	0.09	14.65	224.28	12.30
	PSD Significant Level	25	15	15	40	40		100
	Emission Offset Significant Level						40	
	Emission Offset Major Source Threshold Level						100	
	Nonattainment NSR Major Source Threshold level			100				
	PSD Major Threshold level	250	250	250	250	250	250	250
2008	Combustion	0.02	0.09		0.01	1.23	0.07	1.04
	Frying	1.45	1.71		0.00	0.00	0.56	0.00
	2008 Modification Totals	1.47	1.80		0.01	1.23	0.63	1.04
	Entire Source Totals	192.08	74.96		0.10	15.88	224.90	13.34
	PSD Major Threshold level	250	250	250	250	250	250	250
	NSR Nonattainment Threshold			100				

Appendix B: Lookback Emission Calculations
Dry Ingredient Storage and Conveyance
Company Name: Maplehurst Bakeries, Inc.
Address City IN Zip: 50 Maplehurst Drive, Brownsburg, Indiana 46112
Title V Operating Permit: 063-28023-00031
Significant Source Modification No.: 063-27849-00031
Plant ID: 063-00031
Reviewer: Jean Boling
Date: 10/20/08

Year	Emission Unit ID #	Description	Maximum Capacity		Emission Factors		Uncontrolled		Controlled	
			lbs/hr	tons/hr	PM lbs/ton	PM10/2.5 lbs/ton	PM tons/yr	PM10/2.5 tons/yr	PM tons/yr	PM10/2.5 tons/yr
			1995	EU01	Hard Wheat Silo	3000.00	1.50	3.14	1.10	20.63
2001	EU02	Pastry Flour Silo	12000.00	6.00	3.14	1.10	82.52	28.91	8.25E-03	2.89E-03
2002	EU03-EU-05	3 Storage Silos	8,500.00	4.25	3.14	1.10	58.45	20.48	5.85E-03	2.05E-03
	EU06-EU18	13 Use Bins	16,500.00	8.25	0.01	0.00	0.18	0.09	1.84E-05	8.67E-06
	EU19-EU333	15 Scale Hoppers/Mixers	16,500.00	8.25	0.54	0.13	19.66	4.84	1.97E-03	4.84E-04
2002 Total							78.293	25.405	7.83E-03	2.54E-03

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

Methodology

Maximum transfer rate of storage & conveyance system: 16,500 lbs/hr
Maximum transfer rate of flour: 12,000 lbs/hr
Maximum transfer rate of minor ingredients: 4,500 lbs/hr

Potential Throughput (tons/yr) = Maximum Capacity (lbs/hr) * 8,760 hrs/yr * 1 ton/2,000 lbs
Emission (tons/yr) = Throughput (tons/yr) * Emission Factor (lbs/ton) / 2,000 lbs/ton
Emission Factors for unloading dry ingredients from delivery truck to storage silos are based on AP-42 Emission Factors for controlled cement supplement unloading to storage silo Chapter 11.12, Table 11.12-2
Emission Factors are based on AP-42 Emission Factors for controlled cement supplement unloading to storage silo Chapter 11.12, Table 11.12-2

Abbreviations

PM = Particulate Matter
PM10 = Particulate Matter (<10 um)

Appendix B: Lookback Emission Calculations-Combustion Emissions
Company Name: Maplehurst Bakeries, Inc.
Address City IN Zip: 50 Maplehurst Drive, Brownsburg, Indiana 46112
Title V Operating Permit: 063-28023-00031
Significant Source Modification No.: 063-27849-00031
Plant ID: 063-00031
Reviewer: Jean Boling
Date: 10/20/08

				Pollutant		PM	PM ₁₀	SO ₂	NO _x	VOC	CO
				Emission Factors lbs/cf		0.0000019	0.0000076	0.0000006	0.0001	0.0000055	0.000084
Year	Emission Unit	Heat Input Btu/hr	Operating hrs/yr	Fuel Consumed		Potential Emission tons/yr					
				Btu/cf	cf/yr	PM	PM ₁₀	SO ₂	NO _x	VOC	CO
1993	Moline I	1,400,000	8760	1030	11,906,796	0.011	0.045	0.004	0.595	0.033	0.500
	1993 Total Combustion Emissions					0.011	0.045	0.004	0.595	0.033	0.500
1994	EU22	40,000	8760	1030	340,194	0.000	0.001	0.000	0.017	0.001	0.014
	EU35	855,000	8760	1030	7,271,650	0.007	0.028	0.002	0.364	0.020	0.305
	EU36	161,500	8760	1030	1,373,534	0.001	0.005	0.000	0.069	0.004	0.058
	EU37	250,000	8760	1030	2,126,214	0.002	0.008	0.001	0.106	0.006	0.089
	EU39	135,000	8760	1030	1,148,155	0.001	0.004	0.000	0.057	0.003	0.048
	EU43	100,000	8760	1030	850,485	0.001	0.003	0.000	0.043	0.002	0.036
	EU44	855,000	8760	1030	7,271,650	0.007	0.028	0.002	0.364	0.020	0.305
	EU45	100,000	8760	1030	850,485	0.001	0.003	0.000	0.043	0.002	0.036
	EU46	250,000	8760	1030	2,126,214	0.002	0.008	0.001	0.106	0.006	0.089
	EU47	250,000	8760	1030	2,126,214	0.002	0.008	0.001	0.106	0.006	0.089
	EU52	855,000	8760	1030	7,271,650	0.007	0.028	0.002	0.364	0.020	0.305
	EU53	436,800	8760	1030	3,714,920	0.004	0.014	0.001	0.186	0.010	0.156
	EU54	560,000	8760	1030	4,762,718	0.005	0.018	0.001	0.238	0.013	0.200
	EU55	855,000	8760	1030	7,271,650	0.007	0.028	0.002	0.364	0.020	0.305
EU56	560,000	8760	1030	4,762,718	0.005	0.018	0.001	0.238	0.013	0.200	
1994 Total Combustion Emissions					0.051	0.202	0.016	2.663	0.146	2.237	
1995	EU26	1,350,000	8760	1030	11,481,553	0.011	0.044	0.003	0.574	0.032	0.482
	1995 Total Combustion Emissions					0.011	0.044	0.003	0.574	0.032	0.482
1996	Moline II	1,400,000	8760	1030	11,906,796	0.011	0.045	0.004	0.595	0.033	0.500
	1996 Total Combustion Emissions					0.011	0.045	0.004	0.595	0.033	0.500
1998	Moline III	1,400,000	8760	1030	11,906,796	0.011	0.045	0.004	0.595	0.033	0.500
	1998 Total Combustion Emissions					0.011	0.045	0.004	0.595	0.033	0.500
2000	Ajax	6,300,000	8760	1030	53,580,583	0.051	0.204	0.016	2.679	0.147	2.250
	2000 Total Combustion Emissions					0.051	0.204	0.016	2.679	0.147	2.250
2001	Moline IV	260,000	8760	1030	2,211,262	0.002	0.008	0.001	0.111	0.006	0.093
	EU32	4,050,000	8760	1030	34,444,660	0.033	0.131	0.010	1.722	0.095	1.447
	2001 Total Combustion Emissions					0.035	0.139	0.011	1.833	0.101	1.540
2002	Moline V	840,000	8760	1030	7,144,078	0.007	0.027	0.002	0.357	0.020	0.300
	Moline VI	840,000	8760	1030	7,144,078	0.007	0.027	0.002	0.357	0.020	0.300
	EU48	40,000	8760	1030	340,194	0.000	0.001	0.000	0.017	0.001	0.014
	EU49	60,000	8760	1030	510,291	0.000	0.002	0.000	0.026	0.001	0.021
	EU50	80,000	8760	1030	680,388	0.001	0.003	0.000	0.034	0.002	0.029
	EU51	150,000	8760	1030	1,275,728	0.001	0.005	0.000	0.064	0.004	0.054
2002 Total Combustion Emissions					0.016	0.065	0.005	0.855	0.047	0.718	
2003	Ajax #2	6,300,000	8760	1030	53,580,583	0.051	0.204	0.016	2.679	0.147	2.250
	2003 Total Combustion Emissions					0.051	0.204	0.016	2.679	0.147	2.250

Appendix B: Lookback Emission Calculations-Combustion Emissions-Cont'd
Company Name: Maplehurst Bakeries, Inc.
Address City IN Zip: 50 Maplehurst Drive, Brownsburg, Indiana 46112
Title V Operating Permit: 063-28023-00031
Significant Source Modification No.: 063-27849-00031
Plant ID: 063-00031
Reviewer: Jean Boling
Date: 10/20/08

				Pollutant		PM	PM ₁₀	SO ₂	NO _x	VOC	CO
				Emission Factors lbs/cf		0.0000019	0.0000076	0.0000006	0.0001	0.0000055	0.000084
Year	Emission Unit	Heat Input Btu/hr	Operating hrs/yr	Fuel Consumed		Potential Emission tons/yr					
				Btu/cf	cf/yr	PM	PM ₁₀	SO ₂	NO _x	VOC	CO
2005	EU19	40,000	8760	1030	340,194	0.000	0.001	0.000	0.017	0.001	0.014
	EU20	30,000	8760	1030	255,146	0.000	0.001	0.000	0.013	0.001	0.011
	EU21	30,000	8760	1030	255,146	0.000	0.001	0.000	0.013	0.001	0.011
	EU23	170,000	8760	1030	1,445,825	0.001	0.005	0.000	0.072	0.004	0.061
	EU24	199,000	8760	1030	1,692,466	0.002	0.006	0.001	0.085	0.005	0.071
	EU25	30,000	8760	1030	255,146	0.000	0.001	0.000	0.013	0.001	0.011
	EU27	833,118	8760	1030	7,085,547	0.007	0.027	0.002	0.354	0.019	0.298
	EU28	833,118	8760	1030	7,085,547	0.007	0.027	0.002	0.354	0.019	0.298
	EU29	250,000	8760	1030	2,126,214	0.002	0.008	0.001	0.106	0.006	0.089
	EU30	300,000	8760	1030	2,551,456	0.002	0.010	0.001	0.128	0.007	0.107
	EU31	225,000	8760	1030	1,913,592	0.002	0.007	0.001	0.096	0.005	0.080
	EU33	370,000	8760	1030	3,146,796	0.003	0.012	0.001	0.157	0.009	0.132
	EU34	225,000	8760	1030	1,913,592	0.002	0.007	0.001	0.096	0.005	0.080
EU57	177,000	8760	1030	1,505,359	0.001	0.006	0.000	0.075	0.004	0.063	
2005 Total Combustion Emissions						0.030	0.120	0.009	1.579	0.087	1.326
2008	Moline VII	1,300,000	8760	1030	11,056,311	0.011	0.042	0.003	0.553	0.030	0.464
	EU38	400,000	8760	1030	3,401,942	0.003	0.013	0.001	0.170	0.009	0.143
	EU40	400,000	8760	1030	3,401,942	0.003	0.013	0.001	0.170	0.009	0.143
	EU41	400,000	8760	1030	3,401,942	0.003	0.013	0.001	0.170	0.009	0.143
	EU42	400,000	8760	1030	3,401,942	0.003	0.013	0.001	0.170	0.009	0.143
2008 Total Combustion Emissions						0.023	0.094	0.007	1.233	0.068	1.036

PM emission factor is filterable PM only. PM₁₀ emission factor is filterable and condensable PM₁₀ combined.

Methodology

Potential Throughput (MMCF) = Heat Input Capacity (MMBtu/hr) * 8,760 hrs/yr * 1 MMCF/1,000 MMBtu

Emission (tons/yr) = Throughput (cf/yr) * Emission Factor (lbs/cf) / 2,000 lbs/ton

Emission Factors are based on AP-42 Emission Factors for natural gas combustion (<100MMBtu/hr) 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 (SUPPLEMENT D 3/98)

All emission factors are based on normal firing.

MMBtu = 1,000,000 Btu, MMCF = 1,000,000 Cubic Feet of Gas

Abbreviations

PM = Particulate Matter CO = Carbon Monoxide

PM₁₀ = Particulate Matter (<10 um) NO_x = Nitrous Oxides

SO₂ = Sulfur Dioxide

VOC = Volatile Organic Compounds

Appendix B: Lookback Emission Calculations-Frying Emissions
Company Name: Maplehurst Bakeries, Inc.
Address City IN Zip: 50 Maplehurst Drive, Brownsburg, Indiana 46112
Title V Operating Permit: 063-28023-00031
Significant Source Modification No.: 063-27849-00031
Plant ID: 063-00031
Reviewer: Jean Boling
Date: 10/20/08

Year	Fryer	Maximum Capacity lbs/hr	Operating hours	Maximum Throughput ton/yr	Emission Factors			Potential Emissions		
					VOC lbs/ton	PM lbs/ton	PM ₁₀ lbs/ton	VOC tons/yr	PM tons/yr	PM ₁₀ tons/yr
1993	Moline I	3000	8,760	13,140	0.085	0.220	0.260	0.558	1.445	1.708
	1993 Total Frying Emissions								0.558	1.445
1996	Moline II	3000	8,760	13,140	0.085	0.220	0.260	0.558	1.445	1.708
	1996 Total Frying Emissions								0.558	1.445
1998	Moline III	3000	8,760	13,140	0.085	0.220	0.260	0.558	1.445	1.708
	1998 Total Frying Emissions								0.558	1.445
2001	Moline IV	3000	8,760	13,140	0.085	0.220	0.260	0.558	1.445	1.708
	2001 Total Frying Emissions								1.117	2.891
2002	Moline V	3000	8,760	13,140	0.085	0.220	0.260	0.558	1.445	1.708
	Moline VI	3000	8,760	13,140	0.085	0.220	0.260	0.558	1.445	1.708
2002 Total Frying Emissions								1.117	2.891	3.416
2008	Moline VII	3000	8,760	13,140	0.085	0.220	0.260	0.558	1.445	1.708
	2008 Total Frying Emissions								0.558	1.445

PM emission factor is filterable PM only. PM₁₀ emission factor is filterable and condensable PM₁₀ combined.

Methodology

Potential Throughput (tons/yr) = Maximum Capacity (lbs/hr) * 8,760 hrs/yr * 1 ton/2,000 lbs

Emission (tons/yr) = Throughput (tons/yr) * Emission Factor (lbs/ton) / 2,000 lbs/ton

Emission Factors are based on AP-42 Emission Factors for snack chip deep frying with standard mesh pad mist eliminator from Chapter 9.1, Tables 9.1.3-2 and 9.1.3-3

Abbreviations

PM = Particulate Matter

PM₁₀ = Particulate Matter (<10 um)

VOC = Volatile Organic Compounds

Appendix B: Lookback Emission Calculations-Oven and Fermentation Emissions
Company Name: Maplehurst Bakeries, Inc.
Address City IN Zip: 50 Maplehurst Drive, Brownsburg, Indiana 46112
Title V Operating Permit: 063-28023-00031
Significant Source Modification No.: 063-27849-00031
Plant ID: 063-00031
Reviewer: Jean Boling
Date: 10/20/08

Year	Bakery Line	Product	Maximum Capacity (lbs/hr)	Average Sponge % Yeast	Dough % Yeast	Ferm Time hour	Spike Time hour	Emission Factors VOC lbs/ton	Potential Emissions				
									Maximum Production hours/yr	Maximum Throughput tons/yr	Unlimited VOC lbs/yr	Unlimited VOC tons/yr	Unlimited Acetaldehyde tons/yr
1993	Moline I	yeast product	3000	3.9000	0.0000	1.2	0.00	5.84	8760	13140.00	76724.46	38.36	1.15
	1993 Total Fermentation Emissions											76724.46	38.36
1996	Moline II	yeast product	3000	3.6000	0.0000	1.2	0.00	5.55	8760	13140.00	72979.56	36.49	1.09
	1996 Total Fermentation Emissions											72979.56	36.49
1998	Moline III	yeast product	3000	3.7000	0.0000	1.2	0.00	5.65	8760	13140.00	74227.86	37.11	1.11
	1998 Total Fermentation Emissions											74227.86	37.11
2001	Moline IV	yeast product	3000	3.4000	0.0000	1.2	0.00	5.36	8760	13140.00	70482.96	35.24	1.06
	2001 Total Fermentation Emissions											70482.96	35.24
2002	Moline V	yeast product	3000	3.5000	0.0000	1.2	0.00	5.46	8760	13140.00	71731.26	35.87	1.08
	Moline VI	yeast product	3000	3.6000	0.0000	1.2	0.00	5.55	8760	13140.00	72979.56	36.49	1.09
2002 Total Fermentation Emissions											144710.82	72.36	2.17

Methodology

Potential Throughput (tons/yr) = Maximum Capacity (lbs/hr) * 8,760 hrs/yr * 1 ton/2,000 lbs
 Emission (tons/yr) = Throughput (tons/yr) * Emission Factor (lbs/ton) / 2,000 lbs/ton
 Emission Factors are based on AP-42 Section 9.9.6

The process VOC emissions calculations for the donut dough fermentation are based upon the following EPA recommended bakery oven emissions estimating formula

$$VOC = 0.95Y_i + 0.195t_i - 0.51S - 0.86t_s + 1.90$$

/here: VOC = pounds per ton of dough

- Y_i = initial baker's percent of yeast to the nearest tenth
- t_i = total yeast action time in hours to the nearest tenth
- S = final (spike) baker's percent of yeast to the nearest tenth
- t_s = spiking time in hours to the nearest tenth.

VOCs emitted during fermentation (leavening) assumed to be 97% ethanol and 3% acetaldehyde (VOC/HAP), based on the following document and supporting informatik

1. "Alternative Control Technology Document for Bakery Oven Emissions" (EPA 453/R-92-017, December 1992)
2. Henderson, D.C., 1977, "Commercial Bakeries as a Major Source of Reactive Volatile Organic Gases", U.S. EPA, Region XI Surveillance and Analysis Division



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

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

TO: Robert Goold
VP Ops - Brownsburg
Maplehurst Bakeries, Inc.
50 Maplehurst Dr.
Brownsburg IN 46112

DATE: Oct. 2, 2009

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

SUBJECT: Final Decision
Title V
063-28023-00031

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:
Kara Humes Entech Engineering, Inc.
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



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

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Oct. 2, 2009

TO: Brownsburg Brown & Lincoln Twp Library

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

Subject: **Important Information for Display Regarding a Final Determination**

Applicant Name: Maplehurst Bakeries, Inc.
Permit Number: 063-28023-00031

You previously received information to make available to the public during the public comment period of a draft permit. Enclosed is a copy of the final decision and supporting materials for the same project. Please place the enclosed information along with the information you previously received. To ensure that your patrons have ample opportunity to review the enclosed permit, **we ask that you retain this document for at least 60 days.**

The applicant is responsible for placing a copy of the application in your library. If the permit application is not on file, or if you have any questions concerning this public review process, please contact Joanne Smiddie-Brush, OAQ Permits Administration Section at 1-800-451-6027, extension 3-0185.

Enclosures
Final Library.dot 11/30/07

Mail Code 61-53

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5		Hendricks County Commissioners 355 S Washington Danville IN 46122 (Local Official)									
6		Betty Bartley P.O. Box 149 Danville IN 46122 (Affected Party)									
7		Brownsburg Town Council and Town Manager 61 North Green Street Brownsburg IN 46112 (Local Official)									
8		Ms. Kara J. Humes Entech Engineering, Inc. 500 North Centre Street Pottsville PA 17901 (Consultant)									
9		Hendricks County Health Department 355 S Washington Street, Suite 210 Danville IN 46122-1759 (Health Department)									
10		Mr. James Waggoner Town of Brownsburg 61 North Green Street Brownsburg IN 46112 (Affected Party)									
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