



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

We Protect Hoosiers and Our Environment.

Mitchell E. Daniels Jr.
Governor

Thomas W. Easterly
Commissioner

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

TO: Interested Parties / Applicant

DATE: January 22, 2010

RE: Mariah Foods, LP / 005-25516-00076

FROM: Matthew Stuckey, 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 according to IC 13-15-6-3, 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 and IC 13-15-6-1 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, **within eighteen (18) calendar days of the mailing of this notice**. The filing of a petition for administrative review is complete on the earliest of the following dates that apply to the filing:

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

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

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

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

Enclosures
FNPER.dot12/03/07



Mitchell E. Daniels, Jr.
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Minor Source Operating Permit Renewal OFFICE OF AIR QUALITY

**Mariah Foods, LP
1333 Indiana Avenue
Columbus, Indiana 47202**

(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.

This permit is issued to the above mentioned company under the provisions of 326 IAC 2-1.1, 326 IAC 2-6.1 and 40 CFR 52.780, with conditions listed on the attached pages.

Indiana statutes from IC 13 and rules from 326 IAC, quoted in conditions in this permit, are those applicable at the time the permit was issued. The issuance or possession of this permit shall not alone constitute a defense against an alleged violation of any law, regulation or standard, except for the requirement to obtain a MSOP under 326 IAC 2-6.1.

Operation Permit No.: MSOP 005-23545-00076	
Original Signed By: Nisha Sizemore, Chief Permits Branch Office of Air Quality	Issuance Date: June 22, 2007 Expiration Date: June 22, 2017

First Notice-Only Change No. 005-25837-00076, issued on February 1, 2008

Minor Permit Revision No. 005-28816-00076	
Issued by  Alfred C. Dumauval, Ph. D., Section Chief Permits Branch Office of Air Quality	Issuance Date: January 22, 2010 Expiration Date: June 22, 2017

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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 and A.2 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 2-5.1-3(c)][326 IAC 2-6.1-4(a)]

The Permittee owns and operates a meat processing operation.

Source Address:	1333 Indiana Avenue, Columbus, Indiana 47202
Mailing Address:	1333 Indiana Avenue, Columbus, Indiana 47202
General Source Phone Number:	812-376-0308
SIC Code:	2011
County Location:	Bartholomew
Source Location Status:	Attainment for all criteria pollutants
Source Status:	Minor Source 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

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

- (a) One (1) natural gas-fired boiler, identified as B-1 (formerly identified as B-2), constructed in 2001 and modified in 2003, with a maximum heat input capacity of 12.6 MMBtu per hour, using No. 2 fuel oil as an alternative fuel, and exhausting to stack S-1 (formerly S-2).
- (b) Two (2) natural gas-fired boilers, identified as B-2 and B-3, both approved for construction in 2010, with maximum heat input capacities of 6.225 MMBtu per hour and 4.2 MMBtu per hour, respectively, and exhausting to stacks S-8 and S-9.
- (c) One (1) batch smokehouse (identified as SMH-1), constructed prior to 1996, equipped with a 1.65 MMBtu per hour natural gas-fired furnace and having a maximum throughput capacity of 1,600 pounds of pork per hour and 7.25 pounds of sawdust per hour. Combustion and smokehouse emissions are exhausted at stack S-3.
- (d) One (1) batch smokehouse (identified as SMH-2), constructed prior to 1996, equipped with a 1.65 MMBtu per hour natural gas-fired furnace and having a maximum throughput capacity of 2,800 pounds of pork per hour and 7.25 pounds of sawdust per hour. Combustion and smokehouse emissions are exhausted at stack S-4.
- (e) One (1) batch smokehouse (identified as SMH-3), constructed prior to 1996, equipped with a 1.65 MMBtu per hour natural gas-fired furnace and having a maximum throughput capacity of 2,800 pounds of pork per hour and 7.25 pounds of sawdust per hour. Combustion and smokehouse emissions are exhausted at stack S-5.
- (f) One (1) batch smokehouse (identified as SMH-4), constructed prior to 1996, equipped with a 1.65 MMBtu per hour natural gas-fired furnace and having a maximum throughput capacity of 3,600 pounds of pork per hour and 7.25 pounds of sawdust per hour. Combustion and smokehouse emissions are exhausted at stack S-6.

- (g) One (1) batch smokehouse (identified as SMH-5), constructed in 2004, equipped with a 1.65 MMBtu/hr natural gas-fired furnace and having a maximum throughput capacity of 3,600 pounds of meat per hour and 7.25 pounds of sawdust per hour. Combustion and smokehouse emissions are exhausted at stack S-7.
- (h) Two (2) aboveground, fixed roof dome tanks (identified as T-1 and T-2), installed prior to 2002, used to store diesel fuel. Each storage tank has a maximum storage capacity of 275 gallons.
- (i) One (1) aboveground, fixed roof dome tank (identified as T-3), installed prior to 2002, with a maximum storage capacity of 275 gallons and used to store gasoline.
- (j) One (1) above ground, fixed roof dome tank (identified as T-4), used to store fuel oil, installed prior to 2002, with a maximum storage capacity of 1,000 gallons, and exhausting to the atmosphere.
- (k) One (1) aboveground, fixed roof tank (identified as T-5), installed prior to 1996, with a maximum storage capacity of 8,000 gallons and used to store fuel oil No.2.

SECTION B GENERAL CONDITIONS

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

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 2-1.1-1) shall prevail.

B.2 Permit Term [326 IAC 2-6.1-7(a)][326 IAC 2-1.1-9.5][IC 13-15-3-6(a)]

- (a) This permit, M005-23545-00076, is issued for a fixed term of ten (10) years from the issuance date of this permit, as determined in accordance with IC 4-21.5-3-5(f) and IC 13-15-5-3. Subsequent revisions, modifications, or amendments of this permit do not affect the expiration date of this permit.
- (b) If IDEM, OAQ, upon receiving a timely and complete renewal permit application, fails to issue or deny the permit renewal prior to the expiration date of this permit, this existing permit shall not expire and all terms and conditions shall continue in effect, until the renewal permit has been issued or denied.

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

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

- (a) the condition is modified in a subsequent permit action pursuant to Title I of the Clean Air Act; or
- (b) the emission unit to which the condition pertains permanently ceases operation.

B.4 Enforceability

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

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

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

B.7 Duty to Provide Information

- (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 an "authorized individual" as defined by 326 IAC 2-1.1-1(1). 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

- (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 an "authorized individual" 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) An "authorized individual" is defined at 326 IAC 2-1.1-1(1).

B.9 Annual Notification [326 IAC 2-6.1-5(a)(5)]

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

Indiana Department of Environmental Management
Compliance and Enforcement Branch, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251
- (c) The notification shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ on or before the date it is due.

B.10 Preventive Maintenance Plan [326 IAC 1-6-3]

- (a) If required by specific condition(s) in Section D of this permit, the Permittee shall maintain and implement Preventive Maintenance Plans (PMPs) 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.
- (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 an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (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 Prior Permits Superseded [326 IAC 2-1.1-9.5]

- (a) All terms and conditions of permits established prior to M005-23545-00076 and issued pursuant to permitting programs approved into the state implementation plan have been either:
 - (1) incorporated as originally stated,
 - (2) revised, or
 - (3) deleted
- (b) All previous registrations and permits are superseded by this permit.

B.12 Termination of Right to Operate [326 IAC 2-6.1-7(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 one hundred twenty (120) days prior to the date of expiration of the source's existing permit, consistent with 326 IAC 2-6.1-7.

B.13 Permit Renewal [326 IAC 2-6.1-7]

- (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 2-6.1-7. Such information shall be included in the application for each emission unit at this source. The renewal application does require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

Request for renewal shall be submitted to:

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

- (b) A timely renewal application is one that is:
 - (1) Submitted at least one hundred twenty (120) days 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 2-6.1 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.14 Permit Amendment or Revision [326 IAC 2-5.1-3(e)(3)][326 IAC 2-6.1-6]

(a) Permit amendments and revisions are governed by the requirements of 326 IAC 2-6.1-6 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 an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

(c) The Permittee shall notify the OAQ within thirty (30) calendar days of implementing a notice-only change. [326 IAC 2-6.1-6(d)]

B.15 Source Modification Requirement

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

B.16 Inspection and Entry

[326 IAC 2-5.1-3(e)(4)(B)][326 IAC 2-6.1-5(a)(4)][IC 13-14-2-2][IC 13-17-3-2][IC 13-30-3-1]

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

(a) Enter upon the Permittee's premises where a permitted source is located, or emissions related activity is conducted, or where records must be kept under the conditions of this permit;

(b) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;

(c) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, inspect, at reasonable times, any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit;

(d) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with this permit or applicable requirements; and

(e) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, utilize any photographic, recording, testing, monitoring, or other equipment for the purpose of assuring compliance with this permit or applicable requirements.

B.17 Transfer of Ownership or Operational Control [326 IAC 2-6.1-6]

- (a) The Permittee must comply with the requirements of 326 IAC 2-6.1-6 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 an "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (c) The Permittee may implement notice-only changes addressed in the request for a notice-only change immediately upon submittal of the request. [326 IAC 2-6.1-6(d)(3)]

B.18 Annual Fee Payment [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.
- (b) 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.19 Credible Evidence [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 2-6.1-5(a)(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 Permit Revocation [326 IAC 2-1.1-9]

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

- (a) Violation of any conditions of this permit.
- (b) Failure to disclose all the relevant facts, or misrepresentation in obtaining this permit.
- (c) Changes in regulatory requirements that mandate either a temporary or permanent reduction of discharge of contaminants. However, the amendment of appropriate sections of this permit shall not require revocation of this permit.
- (d) Noncompliance with orders issued pursuant to 326 IAC 1-5 (Episode Alert Levels) to reduce emissions during an air pollution episode.
- (e) For any cause which establishes in the judgment of IDEM, the fact that continuance of this permit is not consistent with purposes of this article.

C.3 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.4 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.5 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.6 Fugitive Dust Emissions [326 IAC 6-4]

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

C.7 Stack Height [326 IAC 1-7]

The Permittee shall comply with the applicable provisions of 326 IAC 1-7 (Stack Height Provisions), for all exhaust stacks through which a potential (before controls) of twenty-five (25) tons per year or more of particulate matter or sulfur dioxide is emitted.

C.8 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 an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (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 Accredited 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 Accredited Asbestos Inspector to thoroughly inspect the affected portion of the facility for the presence of asbestos. The requirement to use an Indiana Accredited Asbestos inspector is not federally enforceable.

Testing Requirements [326 IAC 2-6.1-5(a)(2)]

C.9 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 an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (b) The Permittee shall notify IDEM, OAQ of the actual test date at least fourteen (14) days prior to the actual test date. The notification submitted by the Permittee does not require certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (c) Pursuant to 326 IAC 3-6-4(b), all test reports must be received by IDEM, OAQ not later than forty-five (45) days after the completion of the testing. An extension may be granted by IDEM, OAQ if the Permittee submits to IDEM, OAQ, a reasonable written explanation not later than five (5) days prior to the end of the initial forty-five (45) day period.

Compliance Requirements [326 IAC 2-1.1-11]

C.10 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 2-6.1-5(a)(2)]

C.11 Compliance Monitoring [326 IAC 2-1.1-11]

Compliance with applicable requirements shall be documented as required by this permit. The Permittee shall be responsible for installing any necessary equipment and initiating any required monitoring related to that equipment. All monitoring and record keeping requirements not already legally required shall be implemented when operation begins.

C.12 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.13 Instrument Specifications [326 IAC 2-1.1-11]

- (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

C.14 Response to Excursions or Exceedances

- (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.15 Actions Related to Noncompliance Demonstrated by a Stack Test

- (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 an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

Record Keeping and Reporting Requirements [326 IAC 2-6.1-5(a)(2)]

C.16 Malfunctions Report [326 IAC 1-6-2]

Pursuant to 326 IAC 1-6-2 (Records; Notice of Malfunction):

- (a) A record of all malfunctions, including startups or shutdowns of any facility or emission control equipment, which result in violations of applicable air pollution control regulations or applicable emission limitations shall be kept and retained for a period of three (3) years and shall be made available to the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ) or appointed representative upon request.
- (b) When a malfunction of any facility or emission control equipment occurs which lasts more than one (1) hour, said condition shall be reported to OAQ, using the Malfunction Report Forms (2 pages). Notification shall be made by telephone or facsimile, as soon as practicable, but in no event later than four (4) daytime business hours after the beginning of said occurrence.
- (c) Failure to report a malfunction of any emission control equipment shall constitute a violation of 326 IAC 1-6, and any other applicable rules. Information of the scope and expected duration of the malfunction shall be provided, including the items specified in 326 IAC 1-6-2(a)(1) through (6).

- (d) Malfunction is defined as any sudden, unavoidable failure of any air pollution control equipment, process, or combustion or process equipment to operate in a normal and usual manner. [326 IAC 1-2-39]

C.17 General Record Keeping Requirements [326 IAC 2-6.1-5]

- (a) Records of all required monitoring data, reports and support information required by this permit shall be retained for a period of at least five (5) years from the date of monitoring sample, measurement, report, or application. 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.

C.18 General Reporting Requirements [326 IAC 2-1.1-11] [326 IAC 2-6.1-2] [IC 13-14-1-13]

- (a) 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
- (b) 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.
- (c) 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 an "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (d) Reporting periods are based on calendar years, unless otherwise specified in this permit. For the purpose of this permit "calendar year" means the twelve (12) month period from January 1 to December 31 inclusive.

SECTION D.1

EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

- (a) One (1) natural gas-fired boiler, identified as B-1 (formerly identified as B-2), constructed in 2001 and modified in 2003, with a maximum heat input capacity of 12.6 MMBtu per hour, using No. 2 fuel oil as an alternative fuel, and exhausting to stack S-1 (formerly S-2)

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

Emission Limitations and Standards

D.1.1 Particulate Matter (PM) [326 IAC 6-2-4]

Pursuant to 326 IAC 6-2-4 (Particulate Matter Emission Limitations for Sources of Indirect Heating: Emission Limitations for Facilities Specified in 326 IAC 6-2-1 (c)), particulate emissions from the 12.6 MMBtu per hour heat input boiler (identified as B-1) shall be limited to 0.45 pounds per MMBtu heat input.

The limit was calculated using the following equation:

$$Pt = \frac{1.09}{Q^{0.26}} \quad \text{Where} \quad Pt = \text{Pounds of particulate matter emitted per million Btu (lb/MMBtu) heat input; and} \\ Q = \text{Total source maximum heat input capacity in MMBtu/hr (Q equals 29.4 MMBtu/hr)}$$

D.1.2 General Provisions Relating to New Source Performance Standards under 40 CFR Part 60 [326 IAC 12-1]

The provisions of 40 CFR Part 60, Subpart A - General Provisions, which are incorporated by reference in 326 IAC 12-1, apply to the facility described in this section except when otherwise specified in 40 CFR 60 Subpart Dc.

D.1.3 Sulfur Dioxide (SO₂) [326 IAC 7-1.1-1] [326 IAC 12-1][40 CFR 60, Subpart Dc]

Pursuant to 326 IAC 7-1.1 (SO₂ Emissions Limitations) and 40 CFR 60, Subpart Dc (Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units):

- (a) The SO₂ emissions from Boiler B-1 shall not exceed five tenths (0.5) pounds per million Btu heat input when combusting distillate oil; or
- (b) The sulfur content of the fuel oil shall not exceed five-tenths percent (0.5%) by weight. [40 CFR 60.42c(d)]

Pursuant to 40 CFR 60 Subpart Dc, the fuel oil sulfur content limit applies at all times, including periods of startup, shutdown, and malfunction.

D.1.4 Preventive Maintenance Plan [326 IAC 1-6-3]

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for this facility.

Compliance Determination Requirements [326 IAC 2-5.1-3(e)(2)] [326 IAC 2-6.1-5(a)(2)]

D.1.5 Sulfur Dioxide Emissions and Sulfur Content

Pursuant to 40 CFR 60, Subpart Dc, the Permittee shall demonstrate compliance utilizing one of the following options when utilizing fuel oil:

- (a) Providing vendor analysis of fuel oil delivered, if accompanied by a vendor certification;
- (b) Analyzing the oil sample to determine the sulfur content of the oil via the procedures in 40 CFR 60, Appendix A, Method 19.
 - (1) Oil samples may be collected from the fuel tank immediately after the fuel tank is filled and before any oil is combusted; and
 - (2) If a partially empty fuel tank is refilled, a new sample and analysis would be required upon filling.
- (c) Conducting a stack test for sulfur dioxide emissions from Boiler B-1. Performance tests shall be conducted following the procedures specified in 40 CFR 60.44c.

Compliance Monitoring Requirements [326 IAC 2-5.1-3(e)(2)] [326 IAC 2-6.1-5(a)(2)]

D.1.6 Visible Emissions Notations

- (a) Visible emission notations of the exhaust from stack S-1 shall be performed once per day during normal daylight operations while combusting fuel oil. 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 and Exceedances, shall be considered a deviation from this permit. Failure to take response steps in accordance with Section C - Response to Excursions and Exceedances, shall be considered a deviation from this permit.

Record Keeping and Reporting Requirements [326 IAC 2-5.1-3(e)(2)] [326 IAC 2-6.1-5(a)(2)]

D.1.7 Record Keeping Requirements

- (a) To document compliance with Condition D.1.3, the Permittee shall maintain records in accordance with (1) through (3) below. Note that pursuant to 40 CFR 60 Subpart Dc, the fuel oil sulfur limit applies at all times including periods of startup, shutdown, and malfunction.
 - (1) Pursuant to 40 CFR 60.48c(e), the Permittee shall keep the following records for Boiler B-1:
 - (A) Calendar dates covered in the compliance determination period.
 - (B) Pursuant to 40 CFR 60.48c(e)(11) and 40 CFR 60.48c(f)(1), if the fuel supplier certification is used to demonstrate compliance, the following, as a minimum, shall be maintained:

- (i) Fuel supplier certifications;
 - (ii) The name of the fuel supplier; and
 - (iii) A statement from the fuel supplier that certifies the sulfur content of the fuel oil.
- (2) Pursuant to 40 CFR 60.48c(g), the Permittee shall record and maintain records of the amount of each fuel combusted during each month.
- (3) A certification, signed by the owner or operator, that the records of the fuel supplier certifications represent all of the fuel combusted during the period. The natural gas fired boiler certification does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1); and

The Permittee shall retain records of all recording/monitoring data and support information for a period of five (5) years, or longer if specified elsewhere in this permit, from the date of the monitoring sample, measurement, or report. Support information includes all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by this permit.

- (b) To document compliance with Condition D.1.6 - Visible Emissions Notations, the Permittee shall maintain records of the daily visible emission notations of the boiler stack exhaust. 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, (i.e. the process did not operate that day).
- (c) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

D.1.8 Reporting Requirements

- (a) A semi-annual summary of the information to document compliance with Condition D.1.7(a), and the natural gas fired boiler certification shall be submitted to the address 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 six (6) month period being reported. The report submitted by the Permittee does require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (b) Pursuant to 40 CFR 60.48c (d) and (e), the Permittee shall submit a semi-annual report containing the information required in Condition D.1.7(a) to the following address:

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

within thirty (30) days after the end of the six (6) month period being reported.

D.1.9 New Source Performance Standard (NSPS) Record Keeping Requirements [326 IAC 12]

Pursuant to 326 IAC 12, the Permittee shall record and maintain daily records of the amounts of fuel combusted in the boiler B-1 each day. This condition expires when the revisions made to 40 CFR 60 Subpart Dc, as amended on February 27, 2006, become effective as Indiana Law. This condition is not federally enforceable.

New Source Performance Standards (NSPS) Requirements [326 IAC 2-7-5(1)]

D.1.10 General Provisions Relating to New Source Performance Standards under 40 CFR Part 60 [326 IAC 12-1]

- (a) Pursuant to 326 IAC 12-1, the Permittee shall comply with the provisions of 40 CFR Part 60, Subpart A – General Provisions, which are incorporated by reference as 326 IAC 12-1-1.
- (b) Pursuant to 40 CFR 60.19, the Permittee shall submit all required notifications and reports to:

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

New Source Performance Standards (NSPS) Requirements

D.1.11 Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units Requirements [40 CFR Part 60, Subpart Dc][326 IAC 12]

Pursuant to 40 CFR 60, Subpart Dc the Permittee shall comply with the provisions of Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units, which are incorporated by reference as 326 IAC 12 for boiler B-1 as specified as follows.

§ 60.40c *Applicability and delegation of authority.*

(a) Except as provided in paragraph (d) of this section, the affected facility to which this subpart applies is each steam generating unit for which construction, modification, or reconstruction is commenced after June 9, 1989 and that has a maximum design heat input capacity of 29 megawatts (MW) (100 million Btu per hour (Btu/hr)) or less, but greater than or equal to 2.9 MW (10 million Btu/hr).

(b) In delegating implementation and enforcement authority to a State under section 111(c) of the Clean Air Act, §60.48c(a)(4) shall be retained by the Administrator and not transferred to a State.

(c) Steam generating units which meet the applicability requirements in paragraph (a) of this section are not subject to the sulfur dioxide (SO₂) or particulate matter (PM) emission limits, performance testing requirements, or monitoring requirements under this subpart (§§60.42c, 60.43c, 60.44c, 60.45c, 60.46c, or 60.47c) during periods of combustion research, as defined in §60.41c.

(d) Any temporary change to an existing steam generating unit for the purpose of conducting combustion research is not considered a modification under §60.14.

§ 60.41c *Definitions.*

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

Annual capacity factor means the ratio between the actual heat input to a steam generating unit from an individual fuel or combination of fuels during a period of 12 consecutive calendar months and the potential heat input to the steam generating unit from all fuels had the steam generating unit been operated for 8,760 hours during that 12-month period at the maximum design heat input capacity. In the case of steam generating units that are rented or leased, the actual heat input shall be determined based on the combined heat input from all operations of the affected facility during a period of 12 consecutive calendar months.

Coal means all solid fuels classified as anthracite, bituminous, subbituminous, or lignite by the American Society of Testing and Materials in ASTM D388–77, 90, 91, 95, or 98a, Standard Specification for Classification of Coals by Rank (IBR—see §60.17), coal refuse, and petroleum coke. Coal-derived synthetic fuels derived from coal for the purposes of creating useful heat, including but not limited to solvent refined coal, gasified coal, coal-oil mixtures, and coal-water mixtures, are also included in this definition for the purposes of this subpart.

Coal refuse means any by-product of coal mining or coal cleaning operations with an ash content greater than 50 percent (by weight) and a heating value less than 13,900 kilojoules per kilogram (kJ/kg) (6,000 Btu per pound (Btu/lb) on a dry basis.

Cogeneration steam generating unit means a steam generating unit that simultaneously produces both electrical (or mechanical) and thermal energy from the same primary energy source.

Combined cycle system means a system in which a separate source (such as a stationary gas turbine, internal combustion engine, or kiln) provides exhaust gas to a steam generating unit.

Combustion research means the experimental firing of any fuel or combination of fuels in a steam generating unit for the purpose of conducting research and development of more efficient combustion or more effective prevention or control of air pollutant emissions from combustion, provided that, during these periods of research and development, the heat generated is not used for any purpose other than preheating combustion air for use by that steam generating unit (i.e., the heat generated is released to the atmosphere without being used for space heating, process heating, driving pumps, preheating combustion air for other units, generating electricity, or any other purpose).

Conventional technology means wet flue gas desulfurization technology, dry flue gas desulfurization technology, atmospheric fluidized bed combustion technology, and oil hydrodesulfurization technology.

Distillate oil means fuel oil that complies with the specifications for fuel oil numbers 1 or 2, as defined by the American Society for Testing and Materials in ASTM D396–78, 89, 90, 92, 96, or 98, “Standard Specification for Fuel Oils” (incorporated by reference—see §60.17).

Dry flue gas desulfurization technology means a sulfur dioxide (SO₂) control system that is located between the steam generating unit and the exhaust vent or stack, and that removes sulfur oxides from the combustion gases of the steam generating unit by contacting the combustion gases with an alkaline slurry or solution and forming a dry powder material. This definition includes devices where the dry powder material is subsequently converted to another form. Alkaline reagents used in dry flue gas desulfurization systems include, but are not limited to, lime and sodium compounds.

Duct burner means a device that combusts fuel and that is placed in the exhaust duct from another source (such as a stationary gas turbine, internal combustion engine, kiln, etc.) to allow the firing of additional fuel to heat the exhaust gases before the exhaust gases enter a steam generating unit.

Emerging technology means any SO₂ control system that is not defined as a conventional technology under this section, and for which the owner or operator of the affected facility has received approval from the Administrator to operate as an emerging technology under §60.48c(a)(4).

Federally enforceable means all limitations and conditions that are enforceable by the Administrator, including the requirements of 40 CFR Parts 60 and 61, requirements within any applicable State implementation plan, and any permit requirements established under 40 CFR 52.21 or under 40 CFR 51.18 and 40 CFR 51.24.

Fluidized bed combustion technology means a device wherein fuel is distributed onto a bed (or series of beds) of limestone aggregate (or other sorbent materials) for combustion; and these materials are forced upward in the device by the flow of combustion air and the gaseous products of combustion. Fluidized bed combustion technology includes, but is not limited to, bubbling bed units and circulating bed units.

Fuel pretreatment means a process that removes a portion of the sulfur in a fuel before combustion of the fuel in a steam generating unit.

Heat input means heat derived from combustion of fuel in a steam generating unit and does not include the heat derived from preheated combustion air, recirculated flue gases, or exhaust gases from other sources (such as stationary gas turbines, internal combustion engines, and kilns).

Heat transfer medium means any material that is used to transfer heat from one point to another point.

Maximum design heat input capacity means the ability of a steam generating unit to combust a stated maximum amount of fuel (or combination of fuels) on a steady state basis as determined by the physical design and characteristics of the steam generating unit.

Natural gas means (1) a naturally occurring mixture of hydrocarbon and nonhydrocarbon gases found in geologic formations beneath the earth's surface, of which the principal constituent is methane, or (2) liquefied petroleum (LP) gas, as defined by the American Society for Testing and Materials in ASTM D1835–86, 87, 91, or 97, "Standard Specification for Liquefied Petroleum Gases" (incorporated by reference—see §60.17).

Noncontinental area means the State of Hawaii, the Virgin Islands, Guam, American Samoa, the Commonwealth of Puerto Rico, or the Northern Mariana Islands.

Oil means crude oil or petroleum, or a liquid fuel derived from crude oil or petroleum, including distillate oil and residual oil.

Potential sulfur dioxide emission rate means the theoretical SO₂ emissions (nanograms per joule [ng/J], or pounds per million Btu [lb/million Btu] heat input) that would result from combusting fuel in an uncleaned state and without using emission control systems.

Process heater means a device that is primarily used to heat a material to initiate or promote a chemical reaction in which the material participates as a reactant or catalyst.

Residual oil means crude oil, fuel oil that does not comply with the specifications under the definition of distillate oil, and all fuel oil numbers 4, 5, and 6, as defined by the American Society for Testing and Materials in ASTM D396–78, 89, 90, 92, 96, or 98, "Standard Specification for Fuel Oils" (incorporated by reference—see §60.17).

Steam generating unit means a device that combusts any fuel and produces steam or heats water or any other heat transfer medium. This term includes any duct burner that combusts fuel and is part of a combined cycle system. This term does not include process heaters as defined in this subpart.

Steam generating unit operating day means a 24-hour period between 12:00 midnight and the following midnight during which any fuel is combusted at any time in the steam generating unit. It is not necessary for fuel to be combusted continuously for the entire 24-hour period.

Wet flue gas desulfurization technology means an SO₂ control system that is located between the steam generating unit and the exhaust vent or stack, and that removes sulfur oxides from the combustion gases of the steam generating unit by contacting the combustion gases with an alkaline slurry or solution and forming a liquid material. This definition includes devices where the liquid material is subsequently converted to another form. Alkaline reagents used in wet flue gas desulfurization systems include, but are not limited to, lime, limestone, and sodium compounds.

Wet scrubber system means any emission control device that mixes an aqueous stream or slurry with the exhaust gases from a steam generating unit to control emissions of particulate matter (PM) or SO₂.

Wood means wood, wood residue, bark, or any derivative fuel or residue thereof, in any form, including but not limited to sawdust, sanderdust, wood chips, scraps, slabs, millings, shavings, and processed pellets made from wood or other forest residues.

[55 FR 37683, Sept. 12, 1990, as amended at 61 FR 20736, May 8, 1996; 65 FR 61752, Oct. 17, 2000; 71 FR 9884, Feb. 27, 2006]

§ 60.42c Standard for sulfur dioxide.

(d) On and after the date on which the initial performance test is completed or required to be completed under §60.8 of this part, whichever date comes first, no owner or operator of an affected facility that combusts oil shall cause to be discharged into the atmosphere from that affected facility any gases that contain SO₂ in excess of 215 ng/J (0.50 lb/million Btu) heat input; or, as an alternative, no owner or operator of an affected facility that combusts oil shall combust oil in the affected facility that contains greater than 0.5 weight percent sulfur. The percent reduction requirements are not applicable to affected facilities under this paragraph.

(h) For affected facilities listed under paragraphs (h)(1), (2), or (3) of this section, compliance with the emission limits or fuel oil sulfur limits under this section may be determined based on a certification from the fuel supplier, as described under §60.48c(f)(1), (2), or (3), as applicable.

(1) Distillate oil-fired affected facilities with heat input capacities between 2.9 and 29 MW (10 and 100 million Btu/hr).

(2) Residual oil-fired affected facilities with heat input capacities between 2.9 and 8.7 MW (10 and 30 million Btu/hr).

(3) Coal-fired facilities with heat input capacities between 2.9 and 8.7 MW (10 and 30 million Btu/hr).

(i) The SO₂ emission limits, fuel oil sulfur limits, and percent reduction requirements under this section apply at all times, including periods of startup, shutdown, and malfunction.

§ 60.43c Standard for particulate matter.

(c) On and after the date on which the initial performance test is completed or required to be completed under §60.8 of this part, whichever date comes first, no owner or operator of an affected facility that combusts coal, wood, or oil and has a heat input capacity of 8.7 MW (30 million Btu/hr) or greater shall cause to be discharged into the atmosphere from that affected facility any gases that exhibit greater than 20 percent opacity (6-minute average), except for one 6-minute period per hour of not more than 27 percent opacity.

(d) The PM and opacity standards under this section apply at all times, except during periods of startup, shutdown, or malfunction.

§ 60.44c Compliance and performance test methods and procedures for sulfur dioxide.

(h) For affected facilities subject to §60.42c(h)(1), (2), or (3) where the owner or operator seeks to demonstrate compliance with the SO₂ standards based on fuel supplier certification, the performance test shall consist of the certification, the certification from the fuel supplier, as described under §60.48c(f)(1), (2), or (3), as applicable.

§ 60.46c Emission monitoring for sulfur dioxide

(e) The monitoring requirements of paragraphs (a) and (d) of this section shall not apply to affected facilities subject to §60.42c(h) (1), (2), or (3) where the owner or operator of the affected facility seeks to demonstrate compliance with the SO₂ standards based on fuel supplier certification, as described under §60.48c(f) (1), (2), or (3), as applicable.

§ 60.48c Reporting and recordkeeping requirements.

(d) The owner or operator of each affected facility subject to the SO₂ emission limits, fuel oil sulfur limits, or percent reduction requirements under §60.42c shall submit reports to the Administrator.

(e) The owner or operator of each affected facility subject to the SO₂ emission limits, fuel oil sulfur limits, or percent reduction requirements under §60.43c shall keep records and submit reports as required under paragraph (d) of this section, including the following information, as applicable.

(1) Calendar dates covered in the reporting period.

(2) Each 30-day average SO₂ emission rate (nj/J or lb/million Btu), or 30-day average sulfur content (weight percent), calculated during the reporting period, ending with the last 30-day period; reasons for any noncompliance with the emission standards; and a description of corrective actions taken.

(3) Each 30-day average percent of potential SO₂ emission rate calculated during the reporting period, ending with the last 30-day period; reasons for any noncompliance with the emission standards; and a description of the corrective actions taken.

(4) Identification of any steam generating unit operating days for which SO₂ or diluent (oxygen or carbon dioxide) data have not been obtained by an approved method for at least 75 percent of the operating hours; justification for not obtaining sufficient data; and a description of corrective actions taken.

(5) Identification of any times when emissions data have been excluded from the calculation of average emission rates; justification for excluding data; and a description of corrective actions taken if data have been excluded for periods other than those during which coal or oil were not combusted in the steam generating unit.

(6) Identification of the F factor used in calculations, method of determination, and type of fuel combusted.

(7) Identification of whether averages have been obtained based on CEMS rather than manual sampling methods.

(8) If a CEMS is used, identification of any times when the pollutant concentration exceeded the full span of the CEMS.

(9) If a CEMS is used, description of any modifications to the CEMS that could affect the ability of the CEMS to comply with Performance Specifications 2 or 3 (appendix B).

(10) If a CEMS is used, results of daily CEMS drift tests and quarterly accuracy assessments as required under appendix F, Procedure 1.

(11) If fuel supplier certification is used to demonstrate compliance, records of fuel supplier certification is used to demonstrate compliance, records of fuel supplier certification as described under paragraph (f)(1), (2), or (3) of this section, as applicable. In addition to records of fuel supplier certifications, the report shall include a certified statement signed by the owner or operator of the affected facility that the records of fuel supplier certifications submitted represent all of the fuel combusted during the reporting period.

(f) Fuel supplier certification shall include the following information:

(1) For distillate oil:

(i) The name of the oil supplier; and

(ii) A statement from the oil supplier that the oil complies with the specifications under the definition of distillate oil in §60.41c.

(2) For residual oil:

(i) The name of the oil supplier;

(ii) The location of the oil when the sample was drawn for analysis to determine the sulfur content of the oil, specifically including whether the oil was sampled as delivered to the affected facility, or whether the sample was drawn from oil in storage at the oil supplier's or oil refiner's facility, or other location;

(iii) The sulfur content of the oil from which the shipment came (or of the shipment itself); and

(iv) The method used to determine the sulfur content of the oil.

(3) For coal:

(i) The name of the coal supplier;

(ii) The location of the coal when the sample was collected for analysis to determine the properties of the coal, specifically including whether the coal was sampled as delivered to the affected facility or whether the sample was collected from coal in storage at the mine, at a coal preparation plant, at a coal supplier's facility, or at another location. The certification shall include the name of the coal mine (and coal seam), coal storage facility, or coal preparation plant (where the sample was collected);

(iii) The results of the analysis of the coal from which the shipment came (or of the shipment itself) including the sulfur content, moisture content, ash content, and heat content; and

(iv) The methods used to determine the properties of the coal.

(g) The owner or operator of each affected facility shall record and maintain records of the amounts of each fuel combusted during each day. The owner or operator of an affected facility that only burns very low sulfur fuel oil or other liquid or gaseous fuels with potential sulfur dioxide emissions rate of 140 ng/J (0.32 lb/MMBtu) heat input or less shall record and maintain records of the fuels combusted during each calendar month.

(i) All records required under this section shall be maintained by the owner or operator of the affected facility for a period of two years following the date of such record.

SECTION D.2 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

- (b) Two (2) natural gas-fired boilers, identified as B-2 and B-3, both approved for construction in 2010, with maximum heat input capacities of 6.225 MMBtu per hour and 4.2 MMBtu per hour, respectively, and exhausting to stacks S-8 and S-9.

(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 2-6.1-5(a)(1)]

D.2.1 Particulate [326 IAC 6-2-4]

Pursuant to 326 IAC 6-2-4 (Particulate Emission Limitations for Sources of Indirect Heating), particulate emissions from the two (2) boilers, identified as B-2 and B-3, shall each be limited to 0.48 pound per MMBtu heat input.

SECTION D.3

EMISSIONS UNIT OPERATION CONDITIONS

Facility Description:

- (c) One (1) batch smokehouse (identified as SMH-1), constructed prior to 1996, equipped with a 1.65 MMBtu per hour natural gas-fired furnace and having a maximum throughput capacity of 1,600 pounds of pork per hour and 7.25 pounds of sawdust per hour. Combustion and smokehouse emissions are exhausted at stack S-3.
- (d) One (1) batch smokehouse (identified as SMH-2), constructed prior to 1996, equipped with a 1.65 MMBtu per hour natural gas-fired furnace and having a maximum throughput capacity of 2,800 pounds of pork per hour and 7.25 pounds of sawdust per hour. Combustion and smokehouse emissions are exhausted at stack S-4.
- (e) One (1) batch smokehouse (identified as SMH-3), constructed prior to 1996, equipped with a 1.65 MMBtu per hour natural gas-fired furnace and having a maximum throughput capacity of 2,800 pounds of pork per hour and 7.25 pounds of sawdust per hour. Combustion and smokehouse emissions are exhausted at stack S-5.
- (f) One (1) batch smokehouse (identified as SMH-4), constructed prior to 1996, equipped with a 1.65 MMBtu per hour natural gas-fired furnace and having a maximum throughput capacity of 3,600 pounds of pork per hour and 7.25 pounds of sawdust per hour. Combustion and smokehouse emissions are exhausted at stack S-6.
- (g) One (1) batch smokehouse (identified as SMH-5), constructed in 2004, equipped with a 1.65 MMBtu/hr natural gas-fired furnace and having a maximum throughput capacity of 3,600 pounds of meat per hour and 7.25 pounds of sawdust per hour. Combustion and smokehouse emissions are exhausted at stack S-7.

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

Emission Limitations and Standards

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

Pursuant to 326 IAC 6-3 (Particulate Emission Limitations for Manufacturing Processes), the particulate emissions from each of the smokehouses shall not exceed the emission rate shown in the following table.

Emission Unit	Process Weight Rate (lbs/hour)	Emission Limit (lbs/hour)
Smokehouse SMH-1	1,607.25	3.54
Smokehouse SMH-2	2,807.25	5.15
Smokehouse SMH-3	2,807.25	5.15
Smokehouse SMH-4	3,607.25	6.09
Smokehouse SMH-5	3,607.25	6.09

These limits were calculated using the following equation:

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

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

Where E = Rate of PM emissions in lbs/hr; and
P = Process weight rate in tons/hr.

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

**MINOR SOURCE OPERATING PERMIT (MSOP)
CERTIFICATION**

Source Name: Mariah Foods, LP
Source Address: 1333 Indiana Avenue, Columbus, Indiana 47202
Mailing Address: 1333 Indiana Avenue, Columbus, Indiana 47202
MSOP No.: M005-23545-00076

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 Notification
- Test Result (specify) _____
- Report (specify) _____
- Notification (specify) _____
- Affidavit (specify) _____
- Other (specify) _____

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

Signature:

Printed Name:

Title/Position:

Date:

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

**MINOR SOURCE OPERATING PERMIT
ANNUAL NOTIFICATION**

This form should be used to comply with the notification requirements under 326 IAC 2-6.1-5(a)(5).

Company Name:	Mariah Foods, LP
Address:	1333 Indiana Avenue
City:	Columbus, Indiana 47202
Phone #:	812-376-0308
MSOP #:	M005-23545-00076

I hereby certify that Mariah Foods, LP is :

still in operation.

no longer in operation.

I hereby certify that Mariah Foods, LP is :

in compliance with the requirements of MSOP M005-23545-00076.

not in compliance with the requirements of MSOP M005-23545-00076.

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

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

Noncompliance:

MALFUNCTION REPORT

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT OFFICE OF AIR QUALITY FAX NUMBER - 317 233-6865

This form should only be used to report malfunctions applicable to Rule 326 IAC 1-6 and to qualify for the exemption under 326 IAC 1-6-4.

THIS FACILITY MEETS THE APPLICABILITY REQUIREMENTS BECAUSE IT HAS POTENTIAL TO EMIT 25 TONS/YEAR PARTICULATE MATTER ?____, 25 TONS/YEAR SULFUR DIOXIDE ?____, 25 TONS/YEAR NITROGEN OXIDES?____, 25 TONS/YEAR VOC ?____, 25 TONS/YEAR HYDROGEN SULFIDE ?____, 25 TONS/YEAR TOTAL REDUCED SULFUR ?____, 25 TONS/YEAR REDUCED SULFUR COMPOUNDS ?____, 25 TONS/YEAR FLUORIDES ?____, 100TONS/YEAR CARBON MONOXIDE ?____, 10 TONS/YEAR ANY SINGLE HAZARDOUS AIR POLLUTANT ?____, 25 TONS/YEAR ANY COMBINATION HAZARDOUS AIR POLLUTANT ?____, 1 TON/YEAR LEAD OR LEAD COMPOUNDS MEASURED AS ELEMENTAL LEAD ?____, OR IS A SOURCE LISTED UNDER 326 IAC 2-5.1-3(2) ?____. EMISSIONS FROM MALFUNCTIONING CONTROL EQUIPMENT OR PROCESS EQUIPMENT CAUSED EMISSIONS IN EXCESS OF APPLICABLE LIMITATION _____.

THIS MALFUNCTION RESULTED IN A VIOLATION OF: 326 IAC _____ OR, PERMIT CONDITION # _____ AND/OR PERM LIMIT OF _____

THIS INCIDENT MEETS THE DEFINITION OF >MALFUNCTION= AS LISTED ON REVERSE SIDE ? Y N

THIS MALFUNCTION IS OR WILL BE LONGER THAN THE ONE (1) HOUR REPORTING REQUIREMENT ? Y N

COMPANY: _____ PHONE NO. () _____
LOCATION: (CITY AND COUNTY) _____
PERMIT NO. _____ AFS PLANT ID: _____ AFS POINT ID: _____ INSP: _____
CONTROL/PROCESS DEVICE WHICH MALFUNCTIONED AND REASON: _____

DATE/TIME MALFUNCTION STARTED: ____/____/20____ _____ AM / PM

ESTIMATED HOURS OF OPERATION WITH MALFUNCTION CONDITION: _____

DATE/TIME CONTROL EQUIPMENT BACK-IN SERVICE ____/____/20____ _____ AM/PM

TYPE OF POLLUTANTS EMITTED: TSP, PM-10, SO2, VOC, OTHER: _____

ESTIMATED AMOUNT OF POLLUTANT EMITTED DURING MALFUNCTION: _____

MEASURES TAKEN TO MINIMIZE EMISSIONS: _____

REASONS WHY FACILITY CANNOT BE SHUTDOWN DURING REPAIRS:

CONTINUED OPERATION REQUIRED TO PROVIDE ESSENTIAL* SERVICES: _____

CONTINUED OPERATION NECESSARY TO PREVENT INJURY TO PERSONS: _____

CONTINUED OPERATION NECESSARY TO PREVENT SEVERE DAMAGE TO EQUIPMENT: _____

INTERIM CONTROL MEASURES: (IF APPLICABLE) _____

MALFUNCTION REPORTED BY: _____ TITLE: _____
(SIGNATURE IF FAXED)

MALFUNCTION RECORDED BY: _____ DATE: _____ TIME: _____

*SEE PAGE 2

Please note - This form should only be used to report malfunctions applicable to Rule 326 IAC 1-6 and to qualify for the exemption under 326 IAC 1-6-4.

326 IAC 1-6-1 Applicability of rule

Sec. 1. This rule applies to the owner or operator of any facility required to obtain a permit under 326 IAC 2-5.1 or 326 IAC 2-6.1.

326 IAC 1-2-39 "Malfunction" definition

Sec. 39. Any sudden, unavoidable failure of any air pollution control equipment, process, or combustion or process equipment to operate in a normal and usual manner.

***Essential services** are interpreted to mean those operations, such as, the providing of electricity by power plants. Continued operation solely for the economic benefit of the owner or operator shall not be sufficient reason why a facility cannot be shutdown during a control equipment shutdown.

If this item is checked on the front, please explain rationale:

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

NATURAL GAS FIRED BOILER CERTIFICATION

Source Name: Mariah Foods, LP
Source Address: 1333 Indiana Avenue, Columbus IN 47202
Mailing Address: P.O. Box 548, Columbus, IN 47202
MSOP No.: M005-23545-00076
Emission Unit: Boiler B-1

<input type="checkbox"/> Natural Gas Only
<input type="checkbox"/> Alternate Fuel burned
From: _____ To: _____

I certify that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.
Signature: _____
Printed Name: _____
Title/Position: _____
Date: _____

A certification by the responsible official as defined by 326 IAC 2-1.1-1 is required for this report.

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

Technical Support Document (TSD) for a Minor Permit Revision to a Minor
Source Operating Permit (MSOP)

Source Description and Location

Source Name: Mariah Foods, LP
Source Location: 1333 Indiana Avenue, Columbus IN 47202
County: Bartholomew
SIC Code: 2011
Operation Permit No.: M005-23545-00076
Operation Permit Issuance Date: June 22, 2007
Minor Permit Revision No.: 005-28816-00076
Permit Reviewer: Sarah Conner, Ph. D.

On December 28, 2009, the Office of Air Quality (OAQ) received an application from Mariah Foods, LP related to a modification to an existing stationary meat processing operation. The source requested that their permit be modified to indicate that one existing boiler identified as B-1 has been permanently removed and to update the description of the storage capacity of tank T-4 to indicate that the storage capacity is 1,000 gallons, not 275 gallons as previously permitted. In addition, the source requested that the construction and operation of two (2) new natural gas-fired boilers be added to their current permit.

Existing Approvals

The source was issued MSOP Renewal No. M005-23545-00076 on June 22, 2007. The source has since received Notice-Only Change No. 005-25837-00076, issued on February 1, 2008.

County Attainment Status

The source is located in Bartholomew County.

Pollutant	Designation
SO ₂	Better than national standards.
CO	Unclassifiable or attainment effective November 15, 1990.
O ₃	Unclassifiable or attainment effective June 15, 2004, for the 8-hour ozone standard. ¹
PM ₁₀	Unclassifiable effective November 15, 1990.
NO ₂	Cannot be classified or better than national standards.
Pb	Not designated.
¹ Unclassifiable or attainment effective October 18, 2000, for the 1-hour ozone standard which was revoked effective June 15, 2005. Unclassifiable or attainment effective April 5, 2005, for PM2.5.	

- (a) **Ozone Standards**
 Volatile organic compounds (VOC) and Nitrogen Oxides (NOx) are regulated under the Clean Air Act (CAA) for the purposes of attaining and maintaining the National Ambient Air Quality Standards (NAAQS) for ozone. Therefore, VOC and NOx emissions are considered when evaluating the rule applicability relating to ozone. Bartholomew County has been designated as attainment or unclassifiable for ozone. Therefore, VOC and NOx emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.

- (b) **PM2.5**
 Bartholomew County has been classified as attainment for PM2.5. On May 8, 2008 U.S. EPA promulgated the requirements for Prevention of Significant Deterioration (PSD) for PM2.5 emissions, and the effective date of these rules was July 15, 2008. Indiana has three years from the publication of these rules to revise its PSD rules, 326 IAC 2-2, to include those requirements. The May 8, 2008 rule revisions require IDEM to regulate PM10 emissions as a surrogate for PM2.5 emissions until 326 IAC 2-2 is revised.
- (c) **Other Criteria Pollutants**
 Bartholomew County has been classified as attainment or unclassifiable in Indiana for all other criteria pollutants. Therefore, these emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.

Fugitive Emissions

- (a) The fugitive emissions of criteria pollutants and hazardous air pollutants are counted toward the determination of 326 IAC 2-6.1 (Minor Source Operating Permits) applicability.
- (b) Since this type of operation is not one of the twenty-eight (28) listed source categories under 326 IAC 2-2, 326 IAC 2-3, or 326 IAC 2-7, and there is no applicable New Source Performance Standard that was in effect on August 7, 1980, fugitive emissions are not counted toward the determination of PSD, Emission Offset, and Part 70 Permit applicability.

Status of the Existing Source

The table below summarizes the potential to emit of the entire source, prior to the proposed revision, after consideration of all enforceable limits established in the effective permits:

Process/ Emission Unit	Potential To Emit of the Entire Source Prior to Revision (tons/year)								
	PM	PM10	PM2.5	SO ₂	NO _x	VOC	CO	Total HAPs	Worst Single HAP
Boiler B-1	1.05	1.73	1.73	37.32	10.51	0.40	6.18	0.14	0.13 (Hexane)
Boiler B-2	0.79	1.30	1.30	27.99	7.88	0.30	4.64	0.10	0.10 (Hexane)
Sawdust Smoke Houses SMH1 through 5	4.21	4.21	4.21	-	-	3.50	-	0.65	0.50 (Phenol)
Natural Gas Smoke Houses SMH1 through 5	0.07	0.27	0.27	0.02	3.61	0.20	3.04	0.07	0.07 (Hexane)
Total PTE of Entire Source	6.12	7.51	7.51	60.33	22.00	4.40	13.86	0.96	0.30 (Hexane)
Title V Major Source Thresholds	NA	100	-	100	100	100	100	25	10
PSD Major Source Thresholds	250	250	250	250	250	250	250	NA	NA
negl. = negligible These emissions are based upon appendix A of this document.									

Description of Proposed Revision

The Office of Air Quality (OAQ) has reviewed an application, submitted by Mariah Foods, LP on December 28, 2009, requesting that their permit be modified to indicate that one existing boiler identified as B-1 has been permanently removed and to update the description of the storage capacity of tank T-4 to indicate that the storage capacity is 1,000 gallons, not 275 gallons as previously permitted. In addition, the source requested that the construction and operation of two (2) new natural gas-fired boilers be added to their current permit.

The following is a list of the new/modified emission units:

- (a) One (1) natural gas-fired boiler, identified as B-1 (formerly identified as B-2), constructed in 2001 and modified in 2003, with a maximum heat input capacity of 12.6 MMBtu per hour, using No. 2 fuel oil as an alternative fuel, and exhausting to stack S-1 (formerly S-2).
- (b) Two (2) natural gas-fired boilers, identified as B-2 and B-3, both approved for construction in 2010, with maximum heat input capacities of 6.225 MMBtu per hour and 4.2 MMBtu per hour, respectively, and exhausting to stacks S-8 and S-9.
- (c) One (1) above ground, fixed roof dome tank (identified as T-4), used to store fuel oil, installed prior to 2002, with a maximum storage capacity of 1000 gallons, and exhausting to the atmosphere.

Enforcement Issues

There are no pending enforcement actions related to this revision.

Emission Calculations

See Appendix A of this TSD for detailed emission calculations.

Permit Level Determination – MSOP Revision

The following table is used to determine the appropriate permit level under 326 IAC 2-6.1-6. This table reflects the PTE before controls of the proposed revision. Control equipment is not considered federally enforceable until it has been required in a federally enforceable permit.

Process/ Emission Unit	PTE of Proposed Revision (tons/year)								
	PM	PM10*	PM2.5	SO ₂	NO _x	VOC	CO	Total HAPs	Worst Single HAP
New boilers B-2 and B-3	0.09	0.35	0.35	0.03	2.28	0.25	3.84	0.09	0.08 (Hexane)
Total PTE of Proposed Revision	0.09	0.35	0.35	0.03	2.28	0.25	3.84	0.09	0.08 (Hexane)
negl. = negligible									
* Under the Part 70 Permit program (40 CFR 70), particulate matter with an aerodynamic diameter less than or equal to a nominal 10 micrometers (PM10), not particulate matter (PM), is considered as a "regulated air pollutant".									

This MSOP is being revised through a MSOP Minor Permit Revision pursuant to 326 IAC 2-6.1-6(g)(1), because the revision involves the permanent removal of boiler B-1 and will reduce the frequency of monitoring and reporting required by a permit condition or applicable requirement pursuant to 326 IAC 2-6.1-6(g)(1).

PTE of the Entire Source After Issuance of the MSOP Revision

The table below summarizes the potential to emit of the entire source, with updated emissions shown as **bold** values and previous emissions shown as ~~strikethrough~~ values.

Process/ Emission Unit	Potential To Emit of the Entire Source to accommodate the Proposed Revision (tons/year)								
	PM	PM10	PM2.5	SO ₂	NO _x	VOC	CO	Total HAPs	Worst Single HAP
Boiler B-1	4.05	4.73	4.73	37.32	10.54	0.40	6.18	0.14	0.13 (Hexane)
Boiler B-1(formerly B-2)	0.79	1.30	1.30	27.99	7.88	0.30	4.64	0.10	0.10 (Hexane)
Sawdust Smoke Houses SMH1 through 5	4.21	4.21	4.21	-	-	3.50	-	0.65	0.50 (Phenol)
Natural Gas Smoke Houses SMH1 through 5	0.07	0.27	0.27	0.02	3.61	0.20	3.04	0.07	0.07 (Hexane)
New boilers B-2 and B-3	0.09	0.35	0.35	0.03	2.28	0.25	3.84	0.09	0.08 (Hexane)
Total PTE of Entire Source	6.12 5.16	7.54 6.13	7.54 6.13	60.33 28.04	22.00 13.78	4.40 4.25	13.86 11.51	0.96 0.09	0.30 0.25 (Hexane)
Title V Major Source Thresholds	NA	100	-	100	100	100	100	25	10
PSD Major Source Thresholds	250	250	250	250	250	250	250	NA	NA
negl. = negligible * Under the Part 70 Permit program (40 CFR 70), particulate matter with an aerodynamic diameter less than or equal to a nominal 10 micrometers (PM10), not particulate matter (PM), is considered as a "regulated air pollutant".									

The table on the next page summarizes the potential to emit of the entire source after issuance of this revision, reflecting all limits, of the emission units. Any control equipment is considered federally enforceable only after issuance of this MSOP permit revision, and only to the extent that the effect of the control equipment is made practically enforceable in the permit.

Process/ Emission Unit	Potential To Emit of the Entire Source After Issuance of Revision (tons/year)								
	PM	PM10	PM2.5	SO ₂	NO _x	VOC	CO	Total HAPs	Worst Single HAP
Boiler B-1(formerly B-2)	0.79	1.30	1.30	27.99	7.88	0.30	4.64	0.10	0.10 (Hexane)
Sawdust Smoke Houses SMH1 through 5	4.21	4.21	4.21	-	-	3.50	-	0.65	0.50 (Phenol)
Natural Gas Smoke Houses SMH1 through 5	0.07	0.27	0.27	0.02	3.61	0.20	3.04	0.07	0.07 (Hexane)
New boilers B-2 and B-3	0.09	0.35	0.35	0.03	2.28	0.25	3.84	0.09	0.08 (Hexane)
Total PTE of Entire Source	5.16	6.13	6.13	28.04	13.78	4.25	11.51	0.09	0.25 (Hexane)
Title V Major Source Thresholds	NA	100	-	100	100	100	100	25	10
PSD Major Source Thresholds	250	250	250	250	250	250	250	NA	NA
negl. = negligible									

MSOP Status

This revision to an existing Title V minor stationary source will not change the minor status, because the uncontrolled/unlimited potential to emit criteria pollutants from the entire source will still be limited to less than the Title V major source threshold levels. Therefore, the source will still be subject to the provisions of 326 IAC 2-6.1 (MSOP).

Federal Rule Applicability Determination

New Source Performance Standards (NSPS)

- (a) The requirements of the New Source Performance Standards for Fossil-Fuel-Fired Steam Generators for Which Construction Is Commenced After August 17, 1971 (40 CFR 60, Subpart D, 326 IAC 12) are not included in the permit for the two (2) boilers identified as B-2 and B-3, because each boiler is rated at less than two hundred and fifty (250) MMBtu per hour.
- (b) The requirements of the New Source Performance Standards for Electric Utility Steam Generating Units for Which Construction is Commenced After September 18, 1978 (40 CFR 60, Subpart Da, 326 IAC 12) are not included in the permit for the two (2) boilers identified as B-2 and B-3, because each boiler is rated at less than two hundred and fifty (250) MMBtu per hour.
- (c) The requirements of the New Source Performance Standards for Industrial-Commercial-Institutional Steam Generating Units (40 CFR 60, Subpart Db, 326 IAC 12) are not included in the permit for the two (2) boilers identified as B-2 and B-3, because each boiler is rated at less than one hundred (100) MMBtu per hour.
- (d) The requirements of the New Source Performance Standard for Small Industrial-Commercial-Institutional Steam Generating Units (40 CFR 60, Subpart Dc, 326 IAC 12) are not included in the permit for the two (2) boilers identified as B-2 and B-3, because each boiler is rated at less than ten (10) MMBtu per hour.

- (e) The tank, identified as T-4, is not subject to the New Source Performance Standards for Storage Vessels for Petroleum Liquids for Which Construction, Reconstruction, or Modification Commenced After June 11, 1973, and Prior to May 19, 1978 (40 CFR 60, Subparts K, 326 IAC 12) because the tank has a maximum storage capacity that is less than 151,412 liters (40,000 gallons). The storage capacity of tank T-4 is 1,000 gallons.
- (f) The tank, identified as T-4, is not subject to the New Source Performance Standards for Storage Vessels for Petroleum Liquids for Which Construction, Reconstruction, or Modification Commenced After May 18, 1978, and Prior to July 23, 1984 (40 CFR 60, Subparts Ka, 326 IAC 12) because the tank has a maximum storage capacity that is less than 151,416 liters (40,000 gallons). The storage capacity of tank T-4 is 1,000 gallons.
- (g) The tank, identified as T-4, is not subject to the New Source Performance Standards for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced After July 23, 1984, (40 CFR 60, Subparts Ka, 326 IAC 12) because the tank has a maximum storage capacity that is less than 75 cubic meters (19,813 gallons).
- (h) There are no New Source Performance Standards (NSPS) (326 IAC 12 and 40 CFR Part 60) included for this proposed revision.

National Emission Standards for Hazardous Air Pollutants (NESHAP)

- (i) There are no National Emission Standards for Hazardous Air Pollutants (NESHAPs) (326 IAC 14, 326 IAC 20 and 40 CFR Part 63) included for this proposed revision.

Compliance Assurance Monitoring (CAM)

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

State Rule Applicability Determination

The following state rules are applicable to the proposed revision:

326 IAC 2-6.1 (Minor Source Operating Permits (MSOP))

MSOP applicability is discussed under the Permit Level Determination – MSOP section above.

326 IAC 2-2 (Prevention of Significant Deterioration(PSD))

This modification to an existing PSD minor stationary source will not change the PSD minor status, because the potential to emit of all attainment regulated pollutants from the entire source will continue to be less than 250 tons per year, and this source is not one of the twenty-eight (28) listed source categories, as specified in 326 IAC 2-2-1(gg)(1). Therefore, pursuant to 326 IAC 2-2, the PSD requirements do not apply. See PTE of the Entire Source After Issuance of the MSOP Revision Section above.

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

The proposed revision is not subject to the requirements of 326 IAC 2-4.1, since the unlimited potential to emit of HAPs from the new/modified units is less than ten (10) tons per year for any single HAP and less than twenty-five (25) tons per year of a combination of HAPs.

326 IAC 2-6 (Emission Reporting)

Pursuant to 326 IAC 2-6-1, this source is not subject to this rule, because it is not required to have an operating permit under 326 IAC 2-7 (Part 70), it is not located in Lake, Porter, or LaPorte

County, and it does not emit lead into the ambient air at levels equal to or greater than 5 tons per year. Therefore, 326 IAC 2-6 does not apply.

326 IAC 5-1 (Opacity Limitations)

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

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

326 IAC 6-4 (Fugitive Dust Emissions Limitations)

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

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

Due to this revision, the source is not subject to the requirements of 326 IAC 6-5, because combined potential fugitive emissions from the roads and parking lots are less than 25 tons per year.

Boilers B-2 and B-3

326 IAC 6-2-4 (Particulate Emission Limitations for Sources of Indirect Heating)

Pursuant to 326 IAC 6-2-4 (Particulate Matter Emission Limitations for Sources of Indirect Heating), indirect heating units constructed after September 21, 1983 shall be limited using the following equation:

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

where: Pt = Pounds of particulate matter emitted per million British thermal units (lb/MMBtu) heat input

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

For Boilers B-2 and B-3 (both approved for installation in 2010)

$$Q = 23.025 = 12.6 + 6.225 + 4.2$$

Boilers B-2 and B-3

$$Pt = 1.09 / (23.025)^{0.26} = 0.48 \text{ lbs PM/MMBtu heat input}$$

Based on the AP-42 particulate emission factor for natural gas combustion, the potential to emit particulate emissions from boiler B-2 is 0.0019 pounds per million British thermal units, and the potential to emit particulate emissions from boiler B-3 is 0.0019 pounds per million British thermal units. Therefore, boilers B-2 and B-3 are able to comply with this rule when burning natural gas.

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

The boilers, identified as B-2 and B-3, are each exempt from the requirements of 326 IAC 6-3 since they are sources of indirect heating.

326 IAC 7-1.1-1 (Sulfur Dioxide Emission Limitations)

The potential emissions of sulfur dioxide from each of the two (2) boilers, identified as B-2 and B-3, is less than 25 tons per year and 10 pounds per hour. Therefore, the provisions of 326 IAC 7-1.1-1 do not apply.

326 IAC 8-1-6 (VOC Rules: General Reduction Requirements for New Facilities)

The proposed revision is not subject to the requirements of 326 IAC 8-1-6, since the unlimited VOC potential emissions from the two (2) boilers, identified as B-2 and B-3, and storage tank T-4 are each less than twenty-five (25) tons per year.

Compliance Determination, Monitoring and Testing Requirements
--

The existing compliance requirements for boiler B-1 (formerly B-2) will not change as a result of this revision; however the compliance requirements for boiler B-1 (permanently removed) will be removed from the permit. There are no additional compliance requirements required for the new/modified units at this source. The source shall continue to comply with the applicable requirements and permit conditions for boiler B-1 (formerly B-2) as contained in MSOP No: M005-23545-00076, issued on June 22, 2007.

Proposed Changes

- (a) The following changes listed below are due to the proposed revision. Deleted language appears as ~~strike through~~ text and new language appears as **bold** text:
1. Emission unit descriptions have been revised in Section A.2 as follows:
 - (a) ~~One (1) natural gas-fired boiler (identified as B-1) with a maximum heat input capacity of 16.8 MMBtu per hour and exhausting at stack S-1. This boiler was constructed in May 1989 and uses fuel oil No. 2 as an alternative fuel.~~
 - (ba) One (1) natural gas-fired boiler, **identified as B-1 (formerly identified as B-2), constructed in 2001 and modified in 2003**, with a maximum heat input capacity of 12.6 MMBtu per hour, using No. 2 fuel oil as an alternative fuel, and exhausting ~~at~~ **to** stack S-12 ~~(formerly S-2) This boiler was constructed in February 2001 and modified in 2003.~~
 - (b) **Two (2) natural gas-fired boilers, identified as B-2 and B-3, both approved for construction in 2010, with maximum heat input capacities of 6.225 MMBtu per hour and 4.2 MMBtu per hour, respectively, and exhausting to stacks S-8 and S-9.**
 - ...
 - (j) One (1) above ground, fixed roof dome tank (identified as T-4), **used to store fuel oil**, installed prior to 2002, with a maximum storage capacity of ~~275~~ **1,000** gallons, and **exhausting to the atmosphere** ~~used to store fuel oil.~~
 2. Emission unit B-1 has been permanently removed from the source. Therefore, section D.1 of permit MSOP Renewal No. M005-23545-00076 on June 22, 2007 is no longer applicable and has been deleted as follows:

SECTION D.1 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

(a) One (1) natural gas-fired boiler (identified as B-1) with a maximum heat input capacity of 16.8 MMBtu per hour and exhausting at stack S-1. This boiler was constructed in May 1989 and uses fuel oil No. 2 as an alternative fuel.

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

Emission Limitations and Standards

D.1.1 Particulate Matter Limitations (PM) [326 IAC 6-2-4]

Pursuant to 326 IAC 6-2-4 (Particulate emission limitations for sources of indirect heating: emission limitations for facilities specified in 326 IAC 6-2-1(c)), particulate emissions from the 16.8 MMBtu per hour boiler (identified as B-1) shall be limited to 0.39 pounds per MMBtu heat input.

This limit was calculated using the following equation:

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

Where P_t = Pounds of particulate matter emitted per million Btu heat input; and
 Q = Total source heat input capacity in MMBtu/hour
(Q equals 29.4 MMBtu/hr)

D.1.2 Sulfur Dioxide (SO₂) [326 IAC 7-1.1-1] [326 IAC 7-2-1] [40 CFR 60, Subpart Dc]

Pursuant to 326 IAC 7-1.1-1 (SO₂ Emissions Limitations) the SO₂ emissions from the 16.8 MMBtu per hour oil-fueled boiler shall not exceed five tenths (0.5) pounds per MMBtu heat input. Pursuant to 326 IAC 7-2-1, compliance shall be demonstrated on a calendar month average.

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

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for this facility.

Compliance Determination Requirements

D.1.4 Sulfur Dioxide Emissions and Sulfur Content

Compliance shall be determined utilizing one of the following options.

(a) Pursuant to 326 IAC 3-7-4, the Permittee shall demonstrate that the sulfur dioxide emissions do not exceed five tenths (0.5) pounds per million Btu heat input by:

(1) Providing vendor analysis of fuel oil delivered, if accompanied by a vendor certification, or;

(2) Analyzing the oil sample to determine the sulfur content of the oil via the procedures in 40 CFR 60, Appendix A, Method 19.

(A) Oil samples may be collected from the fuel tank immediately after the fuel tank is filled and before any oil is combusted; and

(B) If a partially empty fuel tank is refilled, a new sample and analysis would be required upon filling.

- ~~(b) — Compliance may also be determined by conducting a stack test for sulfur dioxide emissions from the boiler, using 40 CFR 60, Appendix A, Method 6 in accordance with the procedures in 326 IAC 3-6.~~

~~A determination of noncompliance pursuant to any of the methods specified in (a) or (b) above shall not be refuted by evidence of compliance pursuant to the other method.~~

~~Compliance Monitoring Requirements [326 IAC 2-5.1-3(e)(2)] [326 IAC 2-6.1-5(a)(2)]~~

~~D.1.5 — Visible Emissions Notations~~

- ~~(a) — Visible emission notations of the exhaust from stack S-1 shall be performed once per day during normal daylight operations when burning fuel oil. 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 and Exceedances, shall be considered a deviation from this permit. Failure to take response steps in accordance with Section C — Response to Excursions and Exceedances, shall be considered a deviation from this permit.~~

~~Record Keeping and Reporting Requirements [326 IAC 2-5.1-3(e)(2)] [326 IAC 2-6.1-5(a)(2)]~~

~~D.1.6 — Record Keeping Requirements~~

- ~~(a) — To document compliance with Condition D.1.1 and D.1.2, the Permittee shall maintain records in accordance with (1) through (5) below.~~
- ~~(1) — Calendar dates covered in the compliance determination period;~~
- ~~(2) — To certify compliance when burning natural gas only, the Permittee shall maintain records of fuel used.~~
- ~~If the fuel supplier certification is used to demonstrate compliance, when burning alternate fuels and not determining compliance pursuant to 326 IAC 3-7-4, the following, as a minimum, shall be maintained:~~
- ~~(3) — Fuel supplier certifications;~~
- ~~(4) — The name of the fuel supplier; and~~
- ~~(5) — A statement from the fuel supplier that certifies the sulfur content of the fuel oil.~~

~~The Permittee shall retain records of all recording/monitoring data and support information for a period of five (5) years, or longer if specified elsewhere in this permit, from the date~~

~~of the monitoring sample, measurement, or report. Support information includes all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation, and copies of all reports required by this permit.~~

~~(b) To document compliance with Condition D.1.5 Visible Emissions Notations, the Permittee shall maintain records of the daily visible emission notations of the boiler stack exhaust. 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, (i.e. the process did not operate that day).~~

~~(c) All records shall be maintained in accordance with Section C General Record Keeping Requirements, of this permit.~~

~~D.1.7 Reporting Requirements~~

~~The natural gas fired boiler certification shall be submitted semi-annually to the address listed in Section C General Reporting Requirements, using the reporting form located at the end of this permit, or its equivalent, within thirty (30) days after the end of the six (6) month period being reported.~~

3. The emission unit description for boiler B-1 (formerly identified as B-2) and requirements for boiler B-1 have been revised in Section D.1 (formerly in Section D.2) of permit MSOP Renewal No. M005-23545-00076 on June 22, 2007 as follows:

SECTION D.21

EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

- (ba) One (1) natural gas-fired boiler, **identified as B-1 (formerly identified as B-2), constructed in 2001 and modified in 2003**, with a maximum heat input capacity of 12.6 MMBtu per hour, using No. 2 fuel oil as an alternative fuel, and exhausting ~~at~~ stack S-12 (**formerly S-2**) ~~This boiler was constructed in February 2001 and modified in 2003.~~

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

Emission Limitations and Standards

D.21.1 Particulate Matter (PM) [326 IAC 6-2-4]

Pursuant to 326 IAC 6-2-4 (Particulate Matter Emission Limitations for Sources of Indirect Heating: Emission Limitations for Facilities Specified in 326 IAC 6-2-1 (c)), particulate emissions from the 12.6 MMBtu per hour heat input boiler (identified as B-21) shall be limited to 0.45 pounds per MMBtu heat input.

The limit was calculated using the following equation:

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

Where

Pt = Pounds of particulate matter emitted per million Btu (lb/MMBtu) heat input; and

Q = Total source maximum heat input capacity in MMBtu/hr (Q equals 29.4 MMBtu/hr)

D.21.2 General Provisions Relating to New Source Performance Standards under 40 CFR Part 60 [326 IAC 12-1]

...

D.-21.3 Sulfur Dioxide (SO₂) [326 IAC 7-1.1-1] [326 IAC 12-1][40 CFR 60, Subpart Dc]

Pursuant to 326 IAC 7-1.1 (SO₂ Emissions Limitations) and 40 CFR 60, Subpart Dc (Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units):

- (a) The SO₂ emissions from Boiler B-21 shall not exceed five tenths (0.5) pounds per million Btu heat input when combusting distillate oil; or

...

D.-21.4 Preventive Maintenance Plan [326 IAC 1-6-3]

...

D.-21.5 Sulfur Dioxide Emissions and Sulfur Content

Pursuant to 40 CFR 60, Subpart Dc, the Permittee shall demonstrate compliance utilizing one of the following options when utilizing fuel oil:

...

- (c) Conducting a stack test for sulfur dioxide emissions from Boiler B-21. Performance tests shall be conducted following the procedures specified in 40 CFR 60.44c .

Compliance Monitoring Requirements [326 IAC 2-5.1-3(e)(2)] [326 IAC 2-6.1-5(a)(2)]

D.-21.6 Visible Emissions Notations

- (a) Visible emission notations of the exhaust from stack S-21 shall be performed once per day during normal daylight operations while combusting fuel oil. A trained employee shall record whether emissions are normal or abnormal.

...

D.-21.7 Record Keeping Requirements

- (a) To document compliance with Condition D.21.3, the Permittee shall maintain records in accordance with (1) through (3) below. Note that pursuant to 40 CFR 60 Subpart Dc, the fuel oil sulfur limit applies at all times including periods of startup, shutdown, and malfunction.

- (1) Pursuant to 40 CFR 60.48c(e), the Permittee shall keep the following records for Boiler B-21:

...

- (b) To document compliance with Condition D.21.6 - Visible Emissions Notations, the Permittee shall maintain records of the daily visible emission notations of the boiler stack exhaust. 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, (i.e. the process did not operate that day).

D.-21.8 Reporting Requirements

- (a) A semi-annual summary of the information to document compliance with Condition D.21.7(a), and the natural gas fired boiler certification shall be submitted to the address 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 six (6) month period being reported. The report submitted by the Permittee does require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (b) Pursuant to 40 CFR 60.48c (d) and (e), the Permittee shall submit a semi-annual report containing the information required in Condition D.21.7(a) to the following address:

...

D.-21.9 New Source Performance Standard (NSPS) Record Keeping Requirements [326 IAC 12]

Pursuant to 326 IAC 12, the Permittee shall record and maintain daily records of the amounts of fuel combusted in the boilers **B-1** each day. This condition expires when the revisions made to 40 CFR 60 Subpart Dc, as amended on February 27, 2006, become effective as Indiana Law. This condition is not federally enforceable.

New Source Performance Standards (NSPS) Requirements [326 IAC 2-7-5(1)]

D.-21.10 General Provisions Relating to New Source Performance Standards under 40 CFR Part 60 [326 IAC 12-1]

- (a) Pursuant to 326 IAC 12-1, the Permittee shall comply with the provisions of 40 CFR Part 60, Subpart A – General Provisions, which are incorporated by reference as 326 IAC 12-1-1.
- (b) Pursuant to 40 CFR 60.19, the Permittee shall submit all required notifications and reports to:

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

New Source Performance Standards (NSPS) Requirements

D.-21.11 Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units Requirements [40 CFR Part 60, Subpart Dc][326 IAC 12]

Pursuant to 40 CFR 60, Subpart Dc the Permittee shall comply with the provisions of Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units, which are incorporated by reference as 326 IAC 12 for boiler **B-1s-2 and 3** as specified as follows.

4. The Natural Gas Fired Boiler Certification form for boiler B-1 has been deleted, and the Natural Gas Fired Boiler Certification form for boiler B-1 (formerly B-2) has been revised as follows:

~~INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE DATA SECTION~~

~~NATURAL GAS FIRED BOILER CERTIFICATION~~

Source Name: ~~Mariah Foods, LP~~
Source Address: ~~1333 Indiana Avenue, Columbus, Indiana 47202~~
Mailing Address: ~~P.O. Box 548, Columbus, IN 46202~~
MSOP Permit No.: ~~M005-23545-00076~~
Emission Unit: ~~Boiler B-1~~

<input type="checkbox"/> Natural Gas Only <input type="checkbox"/> Alternate Fuel burned From: _____ To: _____
--

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: _____

~~A certification by an authorized individual as defined by 326 IAC 2-1.1-1(1) is required for this report.~~

...

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

NATURAL GAS FIRED BOILER CERTIFICATION

Source Name: Mariah Foods, LP
Source Address: 1333 Indiana Avenue, Columbus IN 47202
Mailing Address: P.O. Box 548, Columbus, IN 47202
MSOP No.: M005-23545-00076
Emission Unit: Boiler B-21

5. The requirements for the two (2) new boilers, identified as B-2 and B-3 are described in a new Section D.2 as follows:

SECTION D.2 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

- (b) Two (2) natural gas-fired boilers, identified as B-2 and B-3, both approved for construction in 2010, with maximum heat input capacities of 6.225 MMBtu per hour and 4.2 MMBtu per hour, respectively, and exhausting to stacks S-8 and S-9.

(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 2-6.1-5(a)(1)]

D.2.1 Particulate [326 IAC 6-2-4]

Pursuant to 326 IAC 6-2-4 (Particulate Emission Limitations for Sources of Indirect Heating), particulate emissions from the two (2) boilers, identified as B-2 and B-3, shall each be limited to 0.48 pound per MMBtu heat input.

IDEM, OAQ has decided to make additional revisions to the permit as described below. The permit has been revised as follows with deleted language as ~~strikeouts~~ and new language **bolded**:

6. Several of IDEM's branches and sections have been renamed. Therefore, IDEM has updated the addresses listed in the permit. References to "Permit Administration and Development Section" and the "Permits Branch" have been changed to "Permit Administration and Support Section". References to "Asbestos Section", "Compliance Data Section", "Air Compliance Section", and "Compliance Branch" have been changed to "Compliance and Enforcement Branch". The permit has been revised as follows:

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

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

7. The Air Board adopted LSA Document #07-202, effective June 6, 2008, that changed a MSOP renewal application due date to one hundred twenty (120) prior to expiration of the current permit. Sections B.12 and B.13 have been revised as follows:

B.12 Termination of Right to Operate [326 IAC 2-6.1-7(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 **one hundred twenty (120)** ~~ninety (90)~~ days prior to the date of expiration of the source's existing permit, consistent with 326 IAC 2-6.1-7.

B.13 Permit Renewal [326 IAC 2-6.1-7]

- ...
- (b) A timely renewal application is one that is:
- (1) Submitted at least **one hundred twenty (120)** ~~ninety (90)~~ days prior to the date of the expiration of this permit; and

Conclusion and Recommendation

Unless otherwise stated, information used in this review was derived from the application and additional information submitted by the applicant. An application for the purposes of this review was received on December 28, 2009.

The construction and operation of this proposed revision shall be subject to the conditions of the attached proposed MSOP Minor Revision No. 005-28816-00076. The staff recommends to the Commissioner that this MSOP Minor Revision be approved.

IDEM Contact

- (a) Questions regarding this proposed permit can be directed to Sarah Conner, Ph. D. at the Indiana Department Environmental Management, Office of Air Quality, Permits Branch, 100 North Senate Avenue, MC 61-53 IGCN 1003, Indianapolis, Indiana 46204-2251 or by telephone at (317) 234-6555 or toll free at 1-800-451-6027 extension 4-6555.
- (b) A copy of the findings is available on the Internet at: <http://www.in.gov/ai/appfiles/idem-caats/>
- (c) For additional information about air permits and how the public and interested parties can participate, refer to the IDEM's Guide for Citizen Participation and Permit Guide on the Internet at: www.idem.in.gov

**Emission Calculations
PTE Summary**

Company Name: Mariah Foods, LP
Address City IN Zip: 1333 Indiana Avenue Columbus, Indiana 47202
Permit Number: MPR 005-28816-00076
Reviewer: Sarah Conner, Ph. D.
Date: 12/30/2009

Emission Units	Uncontrolled PTE (Tons/Year) Before Modification								
	PM	PM10	PM2.5	SO2	VOC	CO	NOx	Single HAP	Total HAPs
Boiler No. 1 (B-1)	1.05 ¹	1.73 ¹	1.73 ¹	37.32 ¹	0.40 ²	6.18 ²	10.51 ¹	0.13 (Hexane) ²	0.14 ²
Boiler No. 2 (B-2)	0.79 ¹	1.3 ¹	1.3 ¹	27.99 ¹	0.3 ²	4.64 ²	7.88 ¹	0.10 (Hexane) ²	0.10 ²
Sawdust Smoke Houses SMH-1 through 5	4.21	4.21	4.21	-	3.50	-	-	0.50 (Phenol)	0.65
Natural Gas Smoke Houses SMH -1 through 5	0.07	0.27	0.27	0.02	0.20	3.04	3.61	0.07 (Hexane)	0.07
Total	6.12	7.51	7.51	60.33	4.40	13.86	22.00	0.30 (Hexane)	0.96

1= PTE calculations from burning no. 2 oil

2= PTE calculations from natural gas only

Emission Units	Uncontrolled PTE (Tons/Year) After Modification								
	PM	PM10	PM2.5	SO2	VOC	CO	NOx	Single HAP	Total HAPs
Boiler No. B-1 (formerly B-2)	0.79 ¹	1.3 ¹	1.3 ¹	27.99 ¹	0.3 ²	4.64 ²	7.88 ¹	0.10 (Hexane) ²	0.10 ²
New Boilers, B-2 and B-3	0.09	0.35	0.35	0.03	0.25	3.84	2.28	0.08 (Hexane)	0.09
Sawdust Smoke Houses SMH-1 through 5	4.21	4.21	4.21	-	3.5	-	-	0.50 (Phenol)	0.65
Natural Gas Smoke Houses SMH -1 through 5	0.07	0.27	0.27	0.02	0.20	3.04	3.61	0.07 (Hexane)	0.07
Total	5.16	6.13	6.13	28.04	4.25	11.51	13.78	0.25 (Hexane)	0.90

1= PTE calculations from burning no. 2 oil

2= PTE calculations from natural gas only

**Appendix A: Emissions Calculations
Natural Gas Combustion Only
MM BTU/HR <100**

**Company Name: Mariah Foods, LP
Address City IN Zip: 1333 Indiana Avenue Columbus, Indiana 47202
Permit Number: MPR 005-28816-00076
Reviewer: Sarah Conner, Ph. D.
Date: 12/30/2009**

Heat Input Capacity
MMBtu/hr

Potential Throughput
MMCF/yr

10.4
for two new boilers, B-2 and B-3

91.3

Emission Factor in lb/MMCF	Pollutant						
	PM*	PM10*	PM2.5	SO2	NOx	VOC	CO
	1.9	7.6	7.6	0.6	50 **see below	5.5	84
Potential Emission in tons/yr	0.0868	0.35	0.35	0.03	2.28	0.25	3.84

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

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

Methodology

All emission factors are based on normal firing.

MMBtu = 1,000,000 Btu

MMCF = 1,000,000 Cubic Feet of Gas

Emission Factors are from AP 42, Chapter 1.4, Tables 1.4-1, 1.4-2, 1.4-3, SCC #1-02-006-02, 1-01-006-02, 1-03-006-02, and 1-03-006-03

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

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

See next page for HAPs emissions calculations.

**Appendix A: Emissions Calculations
 Natural Gas Combustion Only
 MM BTU/HR <100
 HAPs Emissions**

**Company Name: Mariah Foods, LP
 Address City IN Zip: 1333 Indiana Avenue Columbus, Indiana 47202
 Permit Number: MPR 005-28816-00076
 Reviewer: Sarah Conner, Ph. D.
 Date: 12/30/2009**

HAPs - Organics					
Emission Factor in lb/MMcf	Benzene 2.1E-03	Dichlorobenzene 1.2E-03	Formaldehyde 7.5E-02	Hexane 1.8E+00	Toluene 3.4E-03
Potential Emission in tons/yr	9.589E-05	5.479E-05	0.003	0.082	1.552E-04

HAPs - Metals						
Emission Factor in lb/MMcf	Lead 5.0E-04	Cadmium 1.1E-03	Chromium 1.4E-03	Manganese 3.8E-04	Nickel 2.1E-03	Total
Potential Emission in tons/yr	2.283E-05	5.023E-05	6.393E-05	1.735E-05	9.589E-05	0.086

Methodology is the same as previous page.

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

**Appendix A: Emissions Calculations
Natural Gas Combustion Only
MM BTU/HR <100**

**Company Name: Mariah Foods, LP
Address City IN Zip: 1333 Indiana Avenue Columbus, Indiana 47202
Permit Number: MPR 005-28816-00076
Reviewer: Sarah Conner, Ph. D.
Date: 12/30/2009**

Heat Input Capacity
MMBtu/hr

Potential Throughput
MMCF/yr

16.8

147.2

for boiler B-1, removed from source as part of this permit modification

Emission Factor in lb/MMCF	Pollutant						
	PM*	PM10*	PM2.5	SO2	NOx	VOC	CO
	1.9	7.6	7.6	0.6	100	5.5	84
					**see below		
Potential Emission in tons/yr	0.14	0.56	0.56	0.04	7.36	0.40	6.18

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

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

Methodology

All emission factors are based on normal firing.

MMBtu = 1,000,000 Btu

MMCF = 1,000,000 Cubic Feet of Gas

Emission Factors are from AP 42, Chapter 1.4, Tables 1.4-1, 1.4-2, 1.4-3, SCC #1-02-006-02, 1-01-006-02, 1-03-006-02, and 1-03-006-03

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

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

See next page for HAPs emissions calculations.

**Appendix A: Emissions Calculations
 Natural Gas Combustion Only
 MM BTU/HR <100
 HAPs Emissions**

**Company Name: Mariah Foods, LP
 Address City IN Zip: 1333 Indiana Avenue Columbus, Indiana 47202
 Permit Number: MPR 005-28816-00076
 Reviewer: Sarah Conner, Ph. D.
 Date: 12/30/2009**

HAPs - Organics					
Emission Factor in lb/MMcf	Benzene 2.1E-03	Dichlorobenzene 1.2E-03	Formaldehyde 7.5E-02	Hexane 1.8E+00	Toluene 3.4E-03
Potential Emission in tons/yr	1.545E-04	8.830E-05	0.006	0.132	2.502E-04

HAPs - Metals						
Emission Factor in lb/MMcf	Lead 5.0E-04	Cadmium 1.1E-03	Chromium 1.4E-03	Manganese 3.8E-04	Nickel 2.1E-03	Total
Potential Emission in tons/yr	3.679E-05	8.094E-05	1.030E-04	2.796E-05	1.545E-04	0.139

Methodology is the same as previous page.

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

**Appendix A: Emissions Calculations
Commercial/Institutional/Residential Combustors (< 100 mmBtu/hr)
#1 and #2 Fuel Oil (Boilers on Backup Fuel)**

**Company Name: Mariah Foods, LP
Address City IN Zip: 1333 Indiana Avenue Columbus, Indiana 47202
Permit Number: MPR 005-28816-00076
Reviewer: Sarah Conner, Ph. D.
Date: 12/30/2009**

Heat Input Capacity
MMBtu/hr

Potential Throughput
kgals/year

S = Weight % Sulfur
0.5

16.8

1051.20

for boiler B-1, removed from source as part of this permit modification

Emission Factor in lb/kgal	Pollutant						
	PM*	PM10**	PM2.5**	SO2	NOx	VOC	CO
	2.0	3.3	3.30	71 (142.0S)	20.0	0.34	5.0
Potential Emission in tons/yr	1.051	1.734	1.734	37.318	10.512	0.179	2.628

Methodology

1 gallon of No. 2 Fuel Oil has a heating value of 140,000 Btu

Potential Throughput (kgals/year) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1kgal per 1000 gallon x 1 gal per 0.140 MM Btu

Emission Factors are from AP 42, Tables 1.3-1, 1.3-2, and 1.3-3 (SCC 1-03-005-01/02/03) Supplement E 9/98 (see erata file)

*PM emission factor is filterable PM only. Condensable PM emission factor is 1.3 lb/kgal. **PM10 and PM2.5 are filterable and condensable PM combined.

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

Calculations are based using fuel oil with 0.50% sulfur content, changes in the % sulfur content of fuel oil will affect the actual amount of SO2 that is emitted.

See next page for HAPs emission calculations.

**Appendix A: Emissions Calculations
 Commercial/Institutional/Residential Combustors (< 100 mmBtu/hr)
 #1 and #2 Fuel Oil (Boilers on Backup Fuel)
 HAPs Emissions**

**Company Name: Mariah Foods, LP
 Address City IN Zip: 1333 Indiana Avenue Columbus, Indiana 47202
 Permit Number: MPR 005-28816-00076
 Reviewer: Sarah Conner, Ph. D.
 Date: 12/30/2009**

HAPs - Metals					
Emission Factor in lb/mmBtu	Arsenic 4.0E-06	Beryllium 3.0E-06	Cadmium 3.0E-06	Chromium 3.0E-06	Lead 9.0E-06
Potential Emission in tons/yr	2.94E-04	2.21E-04	2.21E-04	2.21E-04	6.62E-04

HAPs - Metals (continued)					
Emission Factor in lb/mmBtu	Mercury 3.0E-06	Manganese 6.0E-06	Nickel 3.0E-06	Selenium 1.5E-05	Total (tons/yr)
Potential Emission in tons/yr	2.21E-04	4.42E-04	2.21E-04	1.10E-03	0.0036

Methodology

No data was available in AP-42 for organic HAPs.

Potential Emissions (tons/year) = Throughput (mmBtu/hr)*Emission Factor (lb/mmBtu)*8,760 hrs/yr / 2,000 lb/ton

**Appendix A: Emissions Calculations
Natural Gas Combustion Only
MM BTU/HR <100**

**Company Name: Mariah Foods, LP
Address City IN Zip: 1333 Indiana Avenue Columbus, Indiana 47202
Permit Number: MPR 005-28816-00076
Reviewer: Sarah Conner, Ph. D.
Date: 12/30/2009**

Heat Input Capacity
MMBtu/hr

Potential Throughput
MMCF/yr

12.6

110.4

for boiler B-2, renamed B-1 as part
of this permit modification

Emission Factor in lb/MMCF	Pollutant						
	PM*	PM10*	PM2.5	SO2	NOx	VOC	CO
Potential Emission in tons/yr	1.9	7.6	7.6	0.6	100 **see below	5.5	84
	0.10	0.42	0.42	0.03	5.52	0.30	4.64

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

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

Methodology

All emission factors are based on normal firing.

MMBtu = 1,000,000 Btu

MMCF = 1,000,000 Cubic Feet of Gas

Emission Factors are from AP 42, Chapter 1.4, Tables 1.4-1, 1.4-2, 1.4-3, SCC #1-02-006-02, 1-01-006-02, 1-03-006-02, and 1-03-006-03

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

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

See next page for HAPs emissions calculations.

**Appendix A: Emissions Calculations
 Natural Gas Combustion Only
 MM BTU/HR <100
 HAPs Emissions**

**Company Name: Mariah Foods, LP
 Address City IN Zip: 1333 Indiana Avenue Columbus, Indiana 47202
 Permit Number: MPR 005-28816-00076
 Reviewer: Sarah Conner, Ph. D.
 Date: 12/30/2009**

HAPs - Organics					
Emission Factor in lb/MMcf	Benzene 2.1E-03	Dichlorobenzene 1.2E-03	Formaldehyde 7.5E-02	Hexane 1.8E+00	Toluene 3.4E-03
Potential Emission in tons/yr	1.159E-04	6.623E-05	0.004	0.099	1.876E-04

HAPs - Metals						
Emission Factor in lb/MMcf	Lead 5.0E-04	Cadmium 1.1E-03	Chromium 1.4E-03	Manganese 3.8E-04	Nickel 2.1E-03	Total
Potential Emission in tons/yr	2.759E-05	6.071E-05	7.726E-05	2.097E-05	1.159E-04	0.104

Methodology is the same as previous page.

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

**Appendix A: Emissions Calculations
Commercial/Institutional/Residential Combustors (< 100 mmBtu/hr)
#1 and #2 Fuel Oil (Boilers on Backup Fuel)**

**Company Name: Mariah Foods, LP
Address City IN Zip: 1333 Indiana Avenue Columbus, Indiana 47202
Permit Number: MPR 005-28816-00076
Reviewer: Sarah Conner, Ph. D.
Date: 12/30/2009**

Heat Input Capacity
MMBtu/hr

Potential Throughput
kgals/year

S = Weight % Sulfur
0.5

12.6

788.40

for boiler B-2, renamed B-1 as part of this permit modification

Emission Factor in lb/kgal	Pollutant						
	PM*	PM10**	PM2.5**	SO2	NOx	VOC	CO
	2.0	3.3	3.30	71 (142.0S)	20.0	0.34	5.0
Potential Emission in tons/yr	0.788	1.301	1.301	27.988	7.884	0.134	1.971

Methodology

1 gallon of No. 2 Fuel Oil has a heating value of 140,000 Btu

Potential Throughput (kgals/year) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1kgal per 1000 gallon x 1 gal per 0.140 MM Btu

Emission Factors are from AP 42, Tables 1.3-1, 1.3-2, and 1.3-3 (SCC 1-03-005-01/02/03) Supplement E 9/98 (see erata file)

*PM emission factor is filterable PM only. Condensable PM emission factor is 1.3 lb/kgal. **PM10 and PM2.5 are filterable and condensable PM combined.

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

Calculations are based using fuel oil with 0.50% sulfur content, changes in the % sulfur content of fuel oil will affect the actual amount of SO2 that is emitted.

See next page for HAPs emission calculations.

**Appendix A: Emissions Calculations
 Commercial/Institutional/Residential Combustors (< 100 mmBtu/hr)
 #1 and #2 Fuel Oil (Boilers on Backup Fuel)
 HAPs Emissions**

**Company Name: Mariah Foods, LP
 Address City IN Zip: 1333 Indiana Avenue Columbus, Indiana 47202
 Permit Number: MPR 005-28816-00076
 Reviewer: Sarah Conner, Ph. D.
 Date: 12/30/2009**

HAPs - Metals					
Emission Factor in lb/mmBtu	Arsenic 4.0E-06	Beryllium 3.0E-06	Cadmium 3.0E-06	Chromium 3.0E-06	Lead 9.0E-06
Potential Emission in tons/yr	2.21E-04	1.66E-04	1.66E-04	1.66E-04	4.97E-04

HAPs - Metals (continued)					
Emission Factor in lb/mmBtu	Mercury 3.0E-06	Manganese 6.0E-06	Nickel 3.0E-06	Selenium 1.5E-05	Total (tons/yr)
Potential Emission in tons/yr	1.66E-04	3.31E-04	1.66E-04	8.28E-04	2.70E-03

Methodology

No data was available in AP-42 for organic HAPs.

Potential Emissions (tons/year) = Throughput (mmBtu/hr)*Emission Factor (lb/mmBtu)*8,760 hrs/yr / 2,000 lb/ton

**Appendix A: Emissions Calculations
Natural Gas Combustion Only
MM BTU/HR <100**

**Company Name: Mariah Foods, LP
Address City IN Zip: 1333 Indiana Avenue Columbus, Indiana 47202
Permit Number: MPR 005-28816-00076
Reviewer: Sarah Conner, Ph. D.
Date: 12/30/2009**

Heat Input Capacity
MMBtu/hr

Potential Throughput
MMCF/yr

8.3

72.3

(includes five natural gas fired heaters each with a maximum heat input capacity of 1.65 MMBtu/hour)

Emission Factor in lb/MMCF	Pollutant						
	PM*	PM10*	PM2.5	SO2	NOx	VOC	CO
	1.9	7.6	7.6	0.6	100 **see below	5.5	84
Potential Emission in tons/yr	0.07	0.27	0.27	0.02	3.61	0.20	3.04

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

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

Methodology

All emission factors are based on normal firing.

MMBtu = 1,000,000 Btu

MMCF = 1,000,000 Cubic Feet of Gas

Emission Factors are from AP 42, Chapter 1.4, Tables 1.4-1, 1.4-2, 1.4-3, SCC #1-02-006-02, 1-01-006-02, 1-03-006-02, and 1-03-006-03

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

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

See next page for HAPs emissions calculations.

**Appendix A: Emissions Calculations
 Natural Gas Combustion Only
 MM BTU/HR <100
 HAPs Emissions**

**Company Name: Mariah Foods, LP
 Address City IN Zip: 1333 Indiana Avenue Columbus, Indiana 47202
 Permit Number: MPR 005-28816-00076
 Reviewer: Sarah Conner, Ph. D.
 Date: 12/30/2009**

HAPs - Organics					
Emission Factor in lb/MMcf	Benzene 2.1E-03	Dichlorobenzene 1.2E-03	Formaldehyde 7.5E-02	Hexane 1.8E+00	Toluene 3.4E-03
Potential Emission in tons/yr	7.588E-05	4.336E-05	0.003	0.065	1.229E-04

HAPs - Metals						
Emission Factor in lb/MMcf	Lead 5.0E-04	Cadmium 1.1E-03	Chromium 1.4E-03	Manganese 3.8E-04	Nickel 2.1E-03	Total
Potential Emission in tons/yr	1.807E-05	3.975E-05	5.059E-05	1.373E-05	7.588E-05	0.068

Methodology is the same as previous page.

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

**Appendix A: Emissions Calculations
Emissions from Pork Smoking
Smoke Houses #1-5**

**Company Name: Mariah Foods, LP
Address City IN Zip: 1333 Indiana Avenue Columbus, Indiana 47202
Permit Number: MPR 005-28816-00076
Reviewer: Sarah Conner, Ph. D.
Date: 12/30/2009**

Pollutant	Emission Factor (lbs/ton of sawdust)*	Smoke House (SMH-1)		Smoke House (SMH-2)		Smoke House (SMH-3)		Smoke House (SMH-4)		Smoke House (SMH-5)		Totals
		Amount of Sawdust Used (lbs/hr)	Potential Emissions (tons/hr)	Amount of Sawdust Used (lbs/hr)	Potential Emissions (tons/hr)	Amount of Sawdust Used (lbs/hr)	Potential Emissions (tons/hr)	Amount of Sawdust Used (lbs/hr)	Potential Emissions (tons/hr)	Amount of Sawdust Used (lbs/hr)	Potential Emissions (tons/hr)	
PM	53	7.25	0.84	7.25	0.84	7.25	0.84	7.25	0.84	7.25	0.84	4.21
PM-10	53	7.25	0.84	7.25	0.84	7.25	0.84	7.25	0.84	7.25	0.84	4.21
VOC	44	7.25	0.7	7.25	0.7	7.25	0.7	7.25	0.7	7.25	0.7	3.5
Formaldehyde	1.33	7.25	0.02	7.25	0.02	7.25	0.02	7.25	0.02	7.25	0.02	0.1
Phenol	6	7.25	0.1	7.25	0.1	7.25	0.1	7.25	0.1	7.25	0.1	0.5
Acetaldehyde	0.33	7.25	0.01	7.25	0.01	7.25	0.01	7.25	0.01	7.25	0.01	0.05

Methodology

*- Emission factors for PM, PM-10 and VOC are from FIRE Version 6.23, SCC# 3-02-013-01. Emissions factors for HAPs were based on information provided by source.

$$\text{PTE (tons/year)} = \text{Max. Sawdust Throughput (lbs/hr)} * 8760 \text{ hrs/yr} * 1\text{ton}/2000 \text{ lb} * \text{Emission Factor (lbs/ton of sawdust)} * 1\text{ton}/2000 \text{ lbs}$$



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: Bill Jones
Mariah Foods, LP
1333 Indiana Ave
Columbus, IN 47202

DATE: January 22, 2010

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

SUBJECT: Final Decision
MSOP - Renewal
005-28816-00076

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:
Brooke A. Myer (August Mack Environmental, 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

Mail Code 61-53

IDEM Staff	MIDENNEY 1/22/2010 Mariah Foods, LP 005-28816-00076 (final)		Type of Mail: CERTIFICATE OF MAILING ONLY	AFFIX STAMP HERE IF USED AS CERTIFICATE OF MAILING
Name and address of Sender		Indiana Department of Environmental Management Office of Air Quality – Permits Branch 100 N. Senate Indianapolis, IN 46204		

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1		Bill Jones Mariah Foods, LP 1333 Indiana Ave Columbus IN 47202 (Source CAATS) via confirmed delievery										
2		Columbus City Council and Mayors Office 123 Washington St Columbus IN 47201 (Local Official)										
3		Mr. Elbert Held 734 Hutchins Columbus IN 47201 (Affected Party)										
4		Mr. Boris Ladwig 333 2nd St Columbus IN 47201 (Affected Party)										
5		Eileen Booher 1316 Chestnut St. Columbus IN 47201 (Affected Party)										
6		Mr. Lcnfc 1039 Sycamore St Columbus IN 47201 (Affected Party)										
7		Bartholomew County Commissioners 440 Third Street Columbus IN 47202 (Local Official)										
8		Mr. Jean Terpstra 3210 Grove Pkwy Columbus IN 47203 (Affected Party)										
9		August Tindell 31 Reo Street Columbus IN 47201 (Affected Party)										
10		Terry Lowe 1110 Central Ave. Columbus IN 47201 (Affected Party)										
11		Mr. Charles Mitch 3210 Grove Parkway Columbus IN 47203 (Affected Party)										
12		Edinburgh Town Council and Town Manager P.O. Box 65 Edinburgh IN 46124 (Local Official)										
13		Bartholomew County Health Department 440 3rd Street, Suite 303 Columbus IN 47201 (Health Department)										
14		Ms. Katheryn Basham August Mack Environmental Inc. 8007 Castleton Road Indianapolis IN 46250 (Affected Party)										
15		Brooke A. Myer August Mack Environmental, Inc. 1200 N. Meridian Street, Suite 400 Indianapolis IN 46204 (Consultant)										

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