



Indiana Department of Environmental Management

We Protect Hoosiers and Our Environment.

100 N. Senate Avenue • Indianapolis, IN 46204

(800) 451-6027 • (317) 232-8603 • www.idem.IN.gov

Michael R. Pence
Governor

Carol S. Comer
Commissioner

To: Interested Parties

Date: May 11, 2016

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

Source Name: Mariah Foods, LP

Permit Level: Administrative Amendment

Permit Number: 005-37006-00076

Source Location: 1333 Indiana Avenue, Columbus, Indiana

Type of Action Taken: Changes that are administrative in nature

Notice of Decision: Approval

Please be advised that on behalf of the Commissioner of the Department of Environmental Management, I have issued a decision regarding the matter referenced above. Pursuant to 326 IAC 2, this approval was effective immediately upon submittal of the application.

The final decision is available on the IDEM website at: <http://www.in.gov/apps/idem/caats/>
To view the document, select Search option 3, then enter permit 37006.

If you would like to request a paper copy of the permit document, please contact IDEM's central file room:

Indiana Government Center North, Room 1201
100 North Senate Avenue, MC 50-07
Indianapolis, IN 46204
Phone: 1-800-451-6027 (ext. 4-0965)
Fax (317) 232-8659

(continues on next page)

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



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Michael R. Pence
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Mr. Bill Jones
Mariah Foods, LP
1333 Indiana Ave.
Columbus, IN 47202

May 11, 2016

Re: 005-37006-0076
Administrative Amendment to
M005-23545-00076

Dear Mr. Jones:

Mariah Foods, LP was issued a Minor Source Operating Permit (MSOP) Renewal No. M005-23545-00076 on June 22, 2007 for a stationary meat processing operation located at 1333 Indiana Avenue, Columbus, IN 47202. On March 28, 2016, the Office of Air Quality (OAQ) received an application from the source requesting to add an emissions unit subject to 326 IAC 2-1.1-3.

Pursuant to the provisions of 326 IAC 2-6.1-6, the permit is hereby amended as described in the attached Technical Support Document.

All other conditions of the permit shall remain unchanged and in effect. Please find attached the entire MSOP as amended. The permit references the below listed attachment since this attachment has been provided in previously issued approvals for this source, IDEM OAQ has not included a copy of this attachment with this amendment:

Attachment A: New Source Performance Standards (NSPS) for Small Industrial-Commercial-Institution Steam Generating Units [40 CFR 60, Subpart Dc]

Previously issued approvals for this source containing these attachments are available on the Internet at: <http://www.in.gov/ai/appfiles/idem-caats/>.

Federal rules under Title 40 of United States Code of Federal Regulations may also be found on the U.S. Government Printing Office's Electronic Code of Federal Regulations (eCFR) website, located on the Internet at: http://www.ecfr.gov/cgi-bin/text-idx?tpl=/ecfrbrowse/Title40/40tab_02.tpl.

A copy of the permit is available on the Internet at: <http://www.in.gov/ai/appfiles/idem-caats/>. For additional information about air permits and how the public and interested parties can participate, refer to the IDEM Permit Guide on the Internet at: <http://www.in.gov/idem/5881.htm>; and the Citizens' Guide to IDEM on the Internet at: <http://www.in.gov/idem/6900.htm>.

This decision is subject to the Indiana Administrative Orders and Procedures Act - IC 4-21.5-3-5. If you have any questions on this matter, please contact Brooke Haldeman of my staff at 317-234-5176 or 1-800-451-6027, and ask for extension 4-5176.

Sincerely,



Jason R. Krawczyk, Section Chief
Permits Branch
Office of Air Quality

Attachments: Updated Permit and Technical Support Document

JK/BH

cc: File – Bartholomew County
Bartholomew County Health Department
U.S. EPA, Region V
Compliance and Enforcement Branch



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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	
Issued by: / 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 on January 22, 2010
Minor Permit Revision No. 005-32020-00076, issued on August 2, 2012
Administrative Amendment No. 005-34654-00076, issued on July 21, 2014

Administrative Amendment No. 005-37006-00076	
Issued by:  Jason R. Krawczyk, Section Chief Permits Branch Office of Air Quality	Issuance Date: May 11, 2016 Expiration Date: June 22, 2017

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**Attachment A: New Source Performance Standards (NSPS) for Small Industrial-Commercial-
Institution Steam Generating Units [40 CFR 60, Subpart Dc]**

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
General Source Phone Number:	812-376-0308
SIC Code:	2011 (Meat Packing Plants)
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, 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 a back-up fuel, and exhausting to stack S-1.

Under 40 CFR 60, Subpart Dc, New Source Performance Standards for Small Industrial-Commercial-Institutional Steam Generating Units, this boiler is considered an affected facility.

Note: The boiler (B-1) is considered a gas-fired boiler as defined in 40 CFR 63.11237. Therefore the facility is exempt from the requirements of 40 CFR 63, Subpart JJJJJ, pursuant to 40 CFR 63.11195(e). At any time the facility no longer meets the definition of gas-fired boiler, as defined in 40 CFR 63.11237, the source shall comply with the applicable requirements of 40 CFR 63, Subpart JJJJJ.

- (b) 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 3,514.66 pounds of pork per hour and 60 pounds of sawdust per hour. Combustion and smokehouse emissions are exhausted at stack S-3.
- (c) 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 6,416.67 pounds of pork per hour and 60 pounds of sawdust per hour. Combustion and smokehouse emissions are exhausted at stack S-4.
- (d) 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 6,416.67 pounds of pork per hour and 60 pounds of sawdust per hour. Combustion and smokehouse emissions are exhausted at stack S-5.

- (e) 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 7,200 pounds of pork per hour and 10 pounds of sawdust per hour. Combustion and smokehouse emissions are exhausted at stack S-6.
- (f) 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 4,800 pounds of meat per hour and 10 pounds of sawdust per hour. Combustion and smokehouse emissions are exhausted at stack S-7.
- (g) 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.
- (h) 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.
- (i) 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.
- (j) 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.
- (k) One (1) natural gas-fired boiler, identified as B-4, permitted in 2016, with a maximum heat input capacity of 12.6 MMBtu per hour, and exhausting to stack S-10.

Under 40 CFR 60, Subpart Dc, New Source Performance Standards for Small Industrial-Commercial-Institutional Steam Generating Units, this boiler is considered an affected facility

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

- (a) If required by specific condition(s) in Section D of this permit, the Permittee shall prepare and maintain Preventive Maintenance Plans (PMPs) no later than ninety (90) days after issuance of this permit or ninety (90) days after initial start-up, whichever is later, including the following information on each facility:
 - (1) Identification of the individual(s) responsible for inspecting, maintaining, and repairing emission control devices;
 - (2) A description of the items or conditions that will be inspected and the inspection schedule for said items or conditions; and
 - (3) Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.

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

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

The Permittee shall implement the PMPs.

- (b) A copy of the PMPs shall be submitted to IDEM, OAQ upon request and within a reasonable time, and shall be subject to review and approval by IDEM, OAQ. IDEM, OAQ may require the Permittee to revise its PMPs whenever lack of proper maintenance causes or is the primary contributor to an exceedance of any limitation on emissions.
- (c) To the extent the 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.10 Prior Permits Superseded [326 IAC 2-1.1-9.5]

- (a) All terms and conditions of permits established prior to 005-32020-00076 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.11 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.12 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 an affirmation that the statements in the application are true and complete 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, pursuant to 326 IAC 2-6.1-4(b), in writing by IDEM, OAQ any additional information identified as being needed to process the application.

B.13 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

- (c) The Permittee shall notify the OAQ no later than thirty (30) calendar days of implementing a notice-only change. [326 IAC 2-6.1-6(d)]

B.14 Source Modification Requirement

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

B.15 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.16 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 an affirmation that the statements in the application are true and complete 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.17 Annual Fee Payment [326 IAC 2-1.1-7]

- (a) The Permittee shall pay annual fees due no later than thirty (30) calendar days of receipt of a bill from IDEM, OAQ,.
- (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.18 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 5-1-1 (Applicability) and 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 except as provided in 326 IAC 4-2 or in this permit. The Permittee shall not operate a refuse incinerator or refuse burning equipment except as provided in 326 IAC 9-1-2 or in this permit.

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 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.

- (e) Procedures for Asbestos Emission Control
The Permittee shall comply with the applicable emission control procedures in 326 IAC 14-10-4 and 40 CFR 61.145(c). Per 326 IAC 14-10-1, emission control requirements are applicable for any removal or disturbance of RACM greater than three (3) linear feet on pipes or three (3) square feet on any other facility components or a total of at least 0.75 cubic feet on all facility components.

- (f) **Demolition and Renovation**
The Permittee shall thoroughly inspect the affected facility or part of the facility where the demolition or renovation will occur for the presence of asbestos pursuant to 40 CFR 61.145(a).
- (g) **Indiana Licensed Asbestos Inspector**
The Permittee shall comply with 326 IAC 14-10-1(a) that requires the owner or operator, prior to a renovation/demolition, to use an Indiana Licensed Asbestos Inspector to thoroughly inspect the affected portion of the facility for the presence of asbestos. The requirement to use an Indiana Licensed Asbestos inspector is not federally enforceable.

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

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

- (a) For performance testing required by this permit, 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.
- (b) The Permittee shall notify IDEM, OAQ of the actual test date at least fourteen (14) days prior to the actual test date.
- (c) Pursuant to 326 IAC 3-6-4(b), all test reports must be received by IDEM, OAQ not later than forty-five (45) days after the completion of the testing. An extension may be granted by IDEM, OAQ if the Permittee submits to IDEM, OAQ a reasonable written explanation not later than five (5) days prior to the end of the initial forty-five (45) day period.

Compliance Requirements [326 IAC 2-1.1-11]

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

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

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

C.10 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.11 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.12 Response to Excursions or Exceedances

Upon detecting an excursion where a response step is required by the D Section or an exceedance of a limitation in this permit:

- (a) The Permittee shall take reasonable response steps to 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 excess emissions.
- (b) The response shall include minimizing the period of any startup, shutdown or malfunction. The response may include, but is not limited to, the following:
 - (1) initial inspection and evaluation;
 - (2) recording that operations returned or are returning 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 normal or usual manner of operation.
- (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 record the reasonable response steps taken.

C.13 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 submit a description of its response actions to IDEM, OAQ, no later than seventy-five (75) days after the date of the test.
- (b) A retest to demonstrate compliance shall be performed no later than one hundred eighty (180) days after the date of the test. Should the Permittee demonstrate to IDEM, OAQ that retesting in one hundred eighty (180) 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.

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

C.14 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.15 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, for all record keeping requirements not already legally required, the Permittee shall be allowed up to ninety (90) days from the date of permit issuance or the date of initial start-up, whichever is later, to begin such record keeping.

C.16 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) The first report shall cover the period commencing on the date of issuance of this permit or the date of initial start-up, whichever is later, and ending on the last day of the reporting period. Reporting periods are based on calendar years, unless otherwise specified in this permit. For the purpose of this permit, "calendar year" means the twelve (12) month period from January 1 to December 31 inclusive.

SECTION D.1

EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

- (a) One (1) natural gas-fired boiler, identified as B-1, 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 a back-up fuel, and exhausting to stack S-1.

Under 40 CFR 60, Subpart Dc, New Source Performance Standards for Small Industrial-Commercial-Institutional Steam Generating Units, this boiler is considered an affected facility.

Note: The boiler (B-1) is considered a gas-fired boiler as defined in 40 CFR 63.11237. Therefore the facility is exempt from the requirements of 40 CFR 63, Subpart JJJJJJ, pursuant to 40 CFR 63.11195(e). At any time the facility no longer meets the definition of gas-fired boiler, as defined in 40 CFR 63.11237, the source shall comply with the applicable requirements of 40 CFR 63, Subpart JJJJJJ.

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

Emission Limitations and Standards [326 IAC 2-6.1-5(a)(1)]

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:

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

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.1.2 Sulfur Dioxide (SO₂) [326 IAC 7-1.1-1]

Pursuant to 326 IAC 7-1.1 (Sulfur Dioxide Emissions Limitations), the SO₂ emissions from Boiler B-1 shall not exceed five tenths (0.5) pounds per million Btu heat input when combusting distillate oil.

D.1.3 Preventive Maintenance Plan [326 IAC 1-6-3]

A Preventive Maintenance Plan is required for boiler B-1. Section B - Preventive Maintenance Plan contains the Permittee's obligation with regard to the preventive maintenance plan required by this condition.

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

D.1.4 Sulfur Dioxide Emissions and Sulfur Content

The Permittee shall demonstrate compliance with Condition D.1.2, 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.

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 boiler B-1 stack exhaust 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. Section C - Response to Excursions and Exceedances contains the Permittee's obligation with regard to the reasonable response steps required by this condition. Failure to take response steps 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 the compliance status with Condition D.1.2, the Permittee shall maintain records in accordance with (1) through (3) below.
 - (1) The Permittee shall keep the following records for Boiler B-1:
 - (A) Calendar dates covered in the compliance determination period.
 - (B) 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) 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.
- (b) To document the compliance status 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 (e.g., the process did not operate that day).
- (c) Section C - General Record Keeping Requirements of this permit contains the Permittee's obligations with regard to the records required by this condition.

D.1.7 Reporting Requirements

A semi-annual summary of the information to document the compliance status with Condition D.1.6(a), and the natural gas fired boiler certification shall be submitted, using the reporting forms located at the end of this permit, or their equivalent, no later than thirty (30) days after the end of the six (6) month period being reported. Section C - General Reporting contains the Permittee's obligation with regard to the reporting required by this condition.

SECTION D.2

EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

- (k) One (1) natural gas-fired boiler, identified as B-4, permitted in 2016, with a maximum heat input capacity of 12.6 MMBtu per hour, and exhausting to stack S-10.

Under 40 CFR 60, Subpart Dc, New Source Performance Standards for Small Industrial-Commercial-Institutional Steam Generating Units, this boiler is considered an affected facility.

(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 one (1) boiler, identified as B-4, shall be limited to 0.47 pound per MMBtu heat input.

SECTION D.3 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

- (b) 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 3,514.66 pounds of pork per hour and 60 pounds of sawdust per hour. Combustion and smokehouse emissions are exhausted at stack S-3.
- (c) 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 6,416.67 pounds of pork per hour and 60 pounds of sawdust per hour. Combustion and smokehouse emissions are exhausted at stack S-4.
- (d) 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 6,416.67 pounds of pork per hour and 60 pounds of sawdust per hour. Combustion and smokehouse emissions are exhausted at stack S-5.
- (e) 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 7,200 pounds of pork per hour and 10 pounds of sawdust per hour. Combustion and smokehouse emissions are exhausted at stack S-6.
- (f) 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 4,800 pounds of meat per hour and 10 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 [326 IAC 2-6.1-5(a)(1)]

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	3,514.66	5.98
Smokehouse SMH-2	6,416.67	8.95
Smokehouse SMH-3	6,416.67	8.95
Smokehouse SMH-4	7,200	9.67
Smokehouse SMH-5	4,800	7.37

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.

SECTION E.1

NSPS

Emissions Unit Description:

- (a) One (1) natural gas-fired boiler, identified as B-1, 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 a back-up fuel, and exhausting to stack S-1.

Under 40 CFR 60, Subpart Dc, New Source Performance Standards for Small Industrial-Commercial-Institutional Steam Generating Units, this boiler is considered an affected facility.

Note: The boiler (B-1) is considered a gas-fired boiler as defined in 40 CFR 63.11237. Therefore the facility is exempt from the requirements of 40 CFR 63, Subpart JJJJJJ, pursuant to 40 CFR 63.11195(e). At any time the facility no longer meets the definition of gas-fired boiler, as defined in 40 CFR 63.11237, the source shall comply with the applicable requirements of 40 CFR 63, Subpart JJJJJJ.

- (k) One (1) natural gas-fired boiler, identified as B-4, permitted in 2016, with a maximum heat input capacity of 12.6 MMBtu per hour, and exhausting to stack S-10.

Under 40 CFR 60, Subpart Dc, New Source Performance Standards for Small Industrial-Commercial-Institutional Steam Generating Units, this boiler is considered an affected facility.

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

New Source Performance Standards (NSPS) Requirements [326 IAC 2-6.1-5(a)(1)]

E.1.1 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

and

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

E.1.2 Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units Requirements [40 CFR Part 60, Subpart Dc][326 IAC 12]

The Permittee shall comply with the following provisions of 40 CFR Part 60, Subpart Dc (included as Attachment A of the operating permit), which are incorporated by reference as 326 IAC 12, for the emission units listed above:

For Boiler B-1:

- (1) 40 CFR 60.40c(a)
- (2) 40 CFR 60.41c
- (3) 40 CFR 60.42c(d), (h)(1), and (i)
- (4) 40 CFR 60.44c(a), (g), and (h)
- (5) 40 CFR 60.46c(e)
- (6) 40 CFR 60.48c(a), (d), (e)(1), (e)(2), (e)(11), (f), (g), (i), and (j)

For Boiler B-4:

- (1) 40 CFR 60.40c(a) and (c)
- (2) 40 CFR 60.41c
- (3) 40 CFR 60.48c (a), (d), (i), and (j)

**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
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) to a
Minor Source Operating Permit (MSOP)

Source Description and Location

Source Name:	Mariah Foods, LP
Source Location:	1333 Indiana Ave., Columbus, IN 47202
County:	Bartholomew
SIC Code:	2011 (Meat Packing Plants)
Operation Permit No.:	M005-23545-00076
Operation Permit Issuance Date:	June 22, 2007
Administrative Amendment No.:	005-37006-00076
Permit Reviewer:	Brooke Haldeman

On March 28th 2016, the Office of Air Quality (OAQ) received an application from Mariah Foods related to a modification to an existing meat processing operation. The source requested that their permit be modified to add one (1) new natural gas-fired boiler and to remove two (2) existing natural gas-fired boilers from the permit, which are no longer at the source.

Existing Approvals

The source was issued MSOP Renewal No. M005-23545-0076 on June 22, 2007. The source has since received the following approvals:

- (a) Notice-Only Change No. 005-25837-00076, issued on February 1, 2008.
- (b) Minor Permit Revision No. 005-28816-00076, issued on January 22, 2010.
- (c) Minor Permit Revision No. 005-32020-00076, issued on August 2, 2012.
- (d) Administrative Amendment No. 005-34654-00076, issued on July 21, 2014.

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 July 20, 2012, for the 2008 8-hour ozone standard. ¹
PM ₁₀	Unclassifiable effective November 15, 1990.
PM _{2.5}	Unclassifiable or attainment effective April 5, 2005, for the annual PM _{2.5} standard.
PM _{2.5}	Unclassifiable or attainment effective December 13, 2009, for the 24-hour PM _{2.5} standard.
NO ₂	Cannot be classified or better than national standards.
Pb	Unclassifiable or attainment effective December 31, 2011.
¹ Unclassifiable or attainment effective October 18, 2000, for the 1-hour ozone standard which was revoked effective June 15, 2005.	

- (a) **Ozone Standards**
Volatile organic compounds (VOC) and Nitrogen Oxides (NO_x) are regulated under the Clean Air Act (CAA) for the purposes of attaining and maintaining the National Ambient Air Quality Standards (NAAQS) for ozone. Therefore, VOC and NO_x emissions are considered when evaluating the rule applicability relating to ozone. Bartholomew County has been designated as attainment or unclassifiable for ozone. Therefore, VOC and NO_x emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.
- (b) **PM_{2.5}**
Bartholomew County has been classified as attainment for PM_{2.5}. Therefore, direct PM_{2.5}, SO₂, and NO_x emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.
- (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 regulated 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 uncontrolled/unlimited potential to emit of the entire source, prior to the proposed addition:

This PTE table is based on the PTE from the TSD of Minor Permit Revision No. 005-32020-00076, issued on August 2, 2012.

Process/ Emission Unit	Potential To Emit of the Entire Source Prior to Amendment (tons/year)								
	PM	PM10*	PM2.5**	SO ₂	NO _x	VOC	CO	Total HAPs	Worst Single HAP
Boiler B-1 (worst case)***	0.79	0.94	0.84	27.99	7.88	0.30	4.54	0.10	0.10 Hexane
Boilers B-2 and B-3	0.09	0.34	0.34	0.03	4.48	0.25	3.76	0.08	0.08 Hexane
Natural Gas-Fired Smoke House Furnaces	0.07	0.27	0.27	0.02	3.54	0.19	2.98	0.07	0.06 Hexane
Smoke Houses SMH1 through SMH5	23.21	23.21	23.21	0.00	0.00	19.27	0.00	3.36	2.63 Phenol
Total PTE of Entire Source	24.15	24.76	24.66	28.04	15.90	20.01	11.28	3.61	2.63 Phenol
Title V Major Source Thresholds**	NA	100	100	100	100	100	100	25	10
MSOP Thresholds	25	25	25	25	25	25	-	-	-
negl. = negligible * Under the Part 70 Permit program (40 CFR 70), PM10 and PM2.5, not particulate matter (PM), are each considered as a "regulated air pollutant". **PM _{2.5} listed is direct PM _{2.5} . *** Emission rates are worst case between Natural Gas and # 2 fuel oil.									

Description of Proposed Revision

The Office of Air Quality (OAQ) has reviewed an application, submitted by Mariah Foods, LP relating to the addition of new gas-fired boiler and the removal of 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 following is a list of the new emission units and pollution control devices:

- (a) One (1) natural gas-fired boiler, identified as B-4, permitted in 2016, with a maximum heat input capacity of 12.6 MMBTU/hr, and exhausting to stack S-10.

Under 40 CFR 60, Subpart Dc, New Source Performance Standards for Small Industrial-Commercial-Institutional Steam Generating Units, this boiler is considered an affected facility

The following is a list of the emission units and pollution control devices being removed from the permit:

- (a) 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.

Enforcement Issues

There are no pending enforcement actions related to this amendment.

Emission Calculations

See Appendix A of this TSD for detailed emission calculations

Permit Level Determination – MSOP Amendment

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 amendment. Control equipment is not considered federally enforceable until it has been required in a federally enforceable permit.

Process/ Emission Unit	Uncontrolled/Unlimited Potential To Emit of Proposed Amendment (tons/year)								
	PM	PM10	PM2.5	SO ₂	NO _x	VOC	CO	Total HAPs	Worst Single HAP
Boilers B-2 and B-3	(0.09)	(0.34)	(0.34)	(0.03)	(4.48)	(0.25)	(3.76)	(0.08)	(0.08) Hexane
Boiler B-4	0.10	0.41	0.41	0.03	5.41	0.30	4.54	0.10	0.10 Hexane
Total PTE of Proposed Amendment	0.10	0.41	0.41	0.03	5.41	0.30	4.54	0.10	0.10 Hexane
negl. = negligible									

Pursuant to 326 IAC 2-6.1-6(d)(11), this change to the permit is considered an administrative amendment because the permit is amended to add an emissions unit, subject to 326 IAC 2-1.1-3 (Exemptions), at the request of the applicant.

PTE of the Entire Source After Issuance of the MSOP Amendment

The table below summarizes the uncontrolled/unlimited 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 Prior to Issuance of Revision (tons/year)								
	PM	PM10*	PM2.5**	SO ₂	NO _x	VOC	CO	Total HAPs	Worst Single HAP
Boiler B-1 (worst case)***	0.79	0.94	0.84	27.99	7.88	0.30	4.54	0.10	0.10 Hexane
Boilers B-2 and B-3	0.09	0.34	0.34	0.03	4.48	0.25	3.76	0.08	0.08 Hexane
Boiler B-4	0.10	0.41	0.41	0.03	5.41	0.30	4.54	0.10	0.10 Hexane
Natural Gas-Fired Smoke House Furnaces	0.07	0.27	0.27	0.02	3.54	0.19	2.98	0.07	0.06 Hexane
Smoke Houses SMH1 through SMH5	23.21	23.21	23.21	0.00	0.00	19.27	0.00	3.36	2.63 Phenol
Total PTE of Entire Source	24.15	24.76	24.66	28.04	15.90	20.01	11.28	3.61	2.63 Phenol
Total PTE of Entire Source	24.17	24.83	24.73	28.04	16.84	20.06	12.07	3.63	2.63 Phenol
Title V Major Source Thresholds**	NA	100	100	100	100	100	100	25	10
MSOP Thresholds	25	25	25	25	25	25	-	-	-
negl. = negligible * Under the Part 70 Permit program (40 CFR 70), PM10 and PM2.5, not particulate matter (PM), are each considered as a "regulated air pollutant". **PM _{2.5} listed is direct PM _{2.5} . *** Emission rates are worst case between Natural Gas and # 2 fuel oil.									

The table below summarizes the uncontrolled/unlimited potential to emit of the entire source after issuance of this revision. The table below was generated from the above table, with bold text un-bolded and strikethrough text deleted.

Process/ Emission Unit	Potential To Emit of the Entire Source Prior to Issuance of Revision (tons/year)								
	PM	PM10*	PM2.5**	SO ₂	NO _x	VOC	CO	Total HAPs	Worst Single HAP
Boiler B-1 (worst case)***	0.79	0.94	0.84	27.99	7.88	0.30	4.54	0.10	0.10 Hexane
Boiler B-4	0.10	0.41	0.41	0.03	5.41	0.30	4.54	0.10	0.10 Hexane
Natural Gas-Fired Smoke House Furnaces	0.07	0.27	0.27	0.02	3.54	0.19	2.98	0.07	0.06 Hexane
Smoke Houses SMH1 through SMH5	23.21	23.21	23.21	0.00	0.00	19.27	0.00	3.36	2.63 Phenol
Total PTE of Entire Source	24.17	24.83	24.73	28.04	16.84	20.06	12.07	3.63	2.63 Phenol
Title V Major Source Thresholds**	NA	100	100	100	100	100	100	25	10
MSOP Thresholds	25	25	25	25	25	25	-	-	-
negl. = negligible * Under the Part 70 Permit program (40 CFR 70), PM10 and PM2.5, not particulate matter (PM), are each considered as a "regulated air pollutant". **PM _{2.5} listed is direct PM _{2.5} . *** Emission rates are worst case between Natural Gas and # 2 fuel oil.									

On June 23, 2014, in the case of *Utility Air Regulatory Group v. EPA*, cause no. 12-1146, (available at http://www.supremecourt.gov/opinions/13pdf/12-1146_4g18.pdf) the United States Supreme Court ruled that the U.S. EPA does not have the authority to treat greenhouse gases (GHGs) as an air pollutant for the purpose of determining operating permit applicability or PSD Major source status. On July 24, 2014, the U.S. EPA issued a memorandum to the Regional Administrators outlining next steps in permitting decisions in light of the Supreme Court's decision. U.S. EPA's guidance states that U.S. EPA will no longer require PSD or Title V permits for sources "previously classified as 'Major' based solely on greenhouse gas emissions."

The Indiana Environmental Rules Board adopted the GHG regulations required by U.S. EPA at 326 IAC 2-2-1(zz), pursuant to Ind. Code § 13-14-9-8(h) (Section 8 rulemaking). A rule, or part of a rule, adopted under Section 8 is automatically invalidated when the corresponding federal rule, or part of the rule, is invalidated. Due to the United States Supreme Court Ruling, IDEM, OAQ cannot consider GHG emissions to determine operating permit applicability or PSD applicability to a source or modification.

MSOP Status

- (1) Criteria Pollutants
 This amendment 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 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).
- (2) HAPs
 This amendment will not change the minor status of the source, because the uncontrolled/unlimited potential to emit of any single HAP will still be less than ten (10) tons per year and the PTE of a combination of HAPs will still be less than twenty-five (25)

tons per year. Therefore, this source is an area source under Section 112 of the Clean Air Act (CAA) and not subject to the provisions of 326 IAC 2-7.

Permit Level Determination – PSD

- (a) PSD Minor Source
This modification to an existing PSD minor stationary source will not change the PSD minor status, because the uncontrolled/unlimited potential to emit of PSD regulated pollutants from the entire source will continue to be less than the PSD major source threshold levels. Therefore, pursuant to 326 IAC 2-2, the PSD requirements do not apply.

Federal Rule Applicability Determination

- (a) New Source Performance Standards (NSPS)
- (1) Boiler 4 is subject to the New Source Performance Standards for Small Industrial-Commercial-Institutional Steam Generating Units (40 CFR 60, Subpart Dc) because the new natural gas-fired boiler (B-4) was constructed after June 9, 1989 and has a maximum design heat input capacity of greater than or equal to 10 MMBtu/h but less than 100 MMBtu/h.
- Applicable portions of the NSPS are the following:
- (A) 40 CFR 60.40c(a) and (c)
 - (B) 40 CFR 60.41c
 - (C) 40 CFR 60.48c (a), (g), (i), and (j)
- The requirements of 40 CFR Part 60, Subpart A – General Provisions, which are incorporated as 326 IAC 12-1, apply to Boiler B-4 except as otherwise specified in 40 CFR 60, Subpart Dc.
- (2) There are no other New Source Performance Standards (40 CFR Part 60) and 326 IAC 12 included for this proposed amendment.
- (b) National Emission Standards for Hazardous Air Pollutants (NESHAP)
- (1) The requirements of the National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional, Boilers Area Sources (40 CFR 63, Subpart JJJJJ) are not included in the permit for this proposed amendment because the proposed boiler meets the definition of a gas-fired boiler, as defined in 40 CFR 63.11237. Pursuant to 40 CFR 63.11195(e), gas-fired boilers are not subject to Subpart Dc or to any of the requirements in Subpart Dc.
- (2) The requirements of the National Emission Standard for Hazardous Air Pollutants for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters (40 CFR 63, Subpart DDDDD) are not included in the permit for the natural gas-fired boiler (B-4), since this source is not a major source of HAPs
- (3) There are no other National Emission Standards for Hazardous Air Pollutants (40 CFR Part 63), 326 IAC 14 and 326 IAC 20 included for this proposed amendment.

(c) Compliance Assurance Monitoring (CAM)

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

- (a) 326 IAC 2-6.1 (Minor Source Operating Permits (MSOP))
MSOP applicability is discussed under the Permit Level Determination – MSOP section above.
- (b) 326 IAC 2-2 (Prevention of Significant Deterioration (PSD))
See Permit Level Determination - PSD section above.
- (c) 326 IAC 2-4.1 (Major Sources of Hazardous Air Pollutants (HAP))
The proposed amendment is not subject to the requirements of 326 IAC 2-4.1, since the unlimited potential to emit of HAPs from the new unit 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.

See PTE of the Entire Source After Issuance of the MSOP Amendment Section above.
- (d) 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
- (e) 326 IAC 12 (New Source Performance Standards)
See Federal Rule Applicability Section of this TSD.
- (f) 326 IAC 20 (Hazardous Air Pollutants)
See Federal Rule Applicability Section of this TSD.

New Gas-Fired Boiler (Boiler B-4)

- (a) 326 IAC 6-2 (Particulate Emission Limitations for Sources of Indirect Heating)
Pursuant to 326 IAC 6-2-1(d), indirect heating facilities which received permit to construct after September 21, 1983 are subject to the requirements of 326 IAC 6-2-4.

The particulate matter emissions (Pt) shall be limited by the following equation:

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

Where:

- Pt = Pounds of particulate matter emitted per million British thermal units (lb/MMBtu).
- Q = Total source maximum operating capacity rating in 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.

Indirect Heating Units Which Began Operation After September 21, 1983						
Facility (strikerthrough units have been removed) (Bold units have been added)	Construction Date (Removal Date)	Operating Capacity (MMBtu/hr)	Q (MMBt/hr)	Calculated Pt (lb/MMBtu)	Particulate Limitation, (Pt) (lb/MMBtu)	PM PTE based on AP-42 (lb/MMBtu)
Boiler B-1	(2007)	16.8	16.8	0.39	0.39	removed
Boiler B-1	2001	12.6	29.4	0.45	0.45	0.002
Boiler B-2	(2015)	6.225	23.025	0.48	0.48	removed
Boiler B-3		4.2				removed
Boiler B-4	2016	12.6	25.2	0.47	0.47	0.002

Where: Q = Includes the capacity (MMBtu/hr) of the new unit(s) and the capacities for those unit(s) which were in operation at the source at the time the new unit(s) was constructed.

Note: Boilers shown in ~~strikerthrough~~ were subsequently removed from the source. The "Q" value shown is the source-wide "Q" value at the time of the unit's construction

(b) 326 IAC 8-1-6 (VOC Rules: General Reduction Requirements for New Facilities)
 The unlimited VOC potential emissions from the new unit is less than twenty-five (25) tons per year. Therefore, the proposed amendment is not subject to the requirements of 326 IAC 8-1-6.

The proposed amendment is not subject to the requirements of 326 IAC 8-1-6, since the unlimited VOC potential emissions from each new unit less than twenty-five (25) tons per year.

(c) There are no other 326 IAC 8 rules that are applicable to the unit.

(d) 326 IAC 7-1.1 (0 Dioxide Emission Limitations)
 The requirements of 326 IAC 7-1.1 do not apply to the natural gas-fired boiler B-4 since the potential to emit sulfur dioxide emissions are less than twenty-five (25) tons per year and ten (10) pounds per hour.

Compliance Determination, Monitoring and Testing Requirements

The existing compliance requirements will not change as a result of this amendment. The source shall continue to comply with the applicable requirements and permit conditions as contained in MSOP Renewal No: M005-23454-00076, issued on June 22, 2007 with its most recent revisions and amendments.

Proposed Changes

The following changes listed below are due to the proposed amendment.

IDEM, OAQ made additional revisions to the permit as described below in order to update the language to match the most current version of the applicable rule, to eliminate redundancy within the permit, and to provide clarification regarding the requirements of these conditions.

1. The IDEM, OAQ corrected the SIC Code description in Section A.1.
2. The IDEM, OAQ removed the NSPS Subpart Dc references from Section D.1 of the permit since Section E.1 contains the Permittee's requirements pursuant to the New Source Performance Standard.
3. The IDEM, OAQ added rule citations to subsection titles to clarify the authority for these conditions.

Deleted language appears as ~~strikethrough~~ text and new language appears as **bold** text:

...

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
General Source Phone Number:	812-376-0308
SIC Code:	2011 (Animal (except Poultry) slaughtering Meat Packing Plants)
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:

...

~~(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.~~

~~(be) ...~~

~~(ce) ...~~

~~(de) ...~~

~~(ef) ...~~

~~(fg) ...~~

~~(gh) ...~~

~~(hi) ...~~

~~(ij) ...~~

~~(jk) ...~~

(k) One (1) natural gas-fired boiler, identified as B-4, permitted in 2016, with a maximum heat input capacity of 12.6 MMBtu per hour, and exhausting to stack S-10.

Under 40 CFR 60, Subpart Dc, New Source Performance Standards for Small Industrial-Commercial-Institutional Steam Generating Units, this boiler is considered an affected facility.

...

Emission Limitations and Standards [326 IAC 2-6.1-5(a)(1)]

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:

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

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.1.2 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 Sulfur Dioxide 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 Sulfur Dioxide Emissions and Sulfur Content

Pursuant to 40 CFR 60, Subpart Dc, the Permittee shall demonstrate compliance with **Condition D.1.2**, 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.~~

...

D.1.6 Record Keeping Requirements

- (a) To document the compliance status with Condition D.1.2, 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 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 the compliance status 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 (e.g., the process did not operate that day).
- (c) Section C - General Record Keeping Requirements of this permit contains the Permittee's obligations with regard to the records required by this condition.

D.1.7 Reporting Requirements

- ~~(a) A semi-annual summary of the information to document the compliance status with Condition D.1.6(a), and the natural gas fired boiler certification shall be submitted, using the reporting forms located at the end of this permit, or their equivalent, no later than thirty (30) days after the end of the six (6) month period being reported. Section C - General Reporting contains the Permittee's obligation with regard to the reporting required by this condition.~~

- ~~(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.1.6(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~~

~~no later than thirty (30) days after the end of the six (6) month period being reported.~~

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.~~

(k) One (1) natural gas-fired boiler, identified as B-4, permitted in 2016, with a maximum heat input capacity of 12.6 MMBtu per hour, and exhausting to stack S-10.

Under 40 CFR 60, Subpart Dc, New Source Performance Standards for Small Industrial-Commercial-Institutional Steam Generating Units, this boiler is considered an affected facility.

(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.~~

Pursuant to 326 IAC 6-2-4 (Particulate Emission Limitations for Sources of Indirect Heating), particulate emissions from the one (1) boiler, identified as B-4, shall be limited to 0.47 pound per MMBtu heat input.

...

SECTION D.3 EMISSIONS UNIT OPERATION CONDITIONS

~~Facility Description~~ Emissions Unit Description:

~~(be) ...~~

~~(ce) ...~~

~~(de) ...~~

~~(ef) ...~~

~~(fg) ...~~

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

...

SECTION E.1 EMISSIONS UNIT OPERATION CONDITIONS NSPS

Emissions Unit Description:

- (a) One (1) natural gas-fired boiler, identified as B-1, 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 a back-up fuel, and exhausting to stack S-1.

Under 40 CFR 60, Subpart Dc, New Source Performance Standards for Small Industrial-Commercial-Institutional Steam Generating Units, this boiler is considered an affected facility.

Note: The boiler (B-1) is considered a gas-fired boiler as defined in 40 CFR 63.11237. Therefore the facility is exempt from the requirements of 40 CFR 63, Subpart JJJJJJ, pursuant to 40 CFR 63.11195(e). At any time the facility no longer meets the definition of gas-fired boiler, as defined in 40 CFR 63.11237, the source shall comply with the applicable requirements of 40 CFR 63, Subpart JJJJJJ.

- (k) **One (1) natural gas-fired boiler, identified as B-4, permitted in 2016, with a maximum heat input capacity of 12.6 MMBtu per hour, and exhausting to stack S-10.**

Under 40 CFR 60, Subpart Dc, New Source Performance Standards for Small Industrial-Commercial-Institutional Steam Generating Units, this boiler is considered an affected facility.

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

New Source Performance Standards (NSPS) Requirements [326 IAC 2-6.1-5(a)(1)]

E.1.1 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

and

**United States Environmental Protection Agency, Region V
Air and Radiation Division
77 West Jackson Boulevard
Chicago, Illinois 60604-3590**

E.1.2 Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units Requirements [40 CFR Part 60, Subpart Dc][326 IAC 12]

The Permittee shall comply with the following provisions of 40 CFR Part 60, Subpart Dc (included as Attachment A of ~~this~~ **the operating** permit), which are incorporated by reference as 326 IAC 12, ~~except as otherwise specified in 40 CFR 60, Subpart Dc for boiler B-1~~ **for the emission units listed above:**

For Boiler B-1:

- (1) 40 CFR 60.40c(a)
- (2) 40 CFR 60.41c
- (3) 40 CFR 60.42c(d), (h)(1), and (i)
- (4) 40 CFR 60.44c(a), (g), and (h)
- (5) 40 CFR 60.46c(e)
- (6) 40 CFR 60.48c(a), (d), (e)(1), (e)(2), (e)(11), (f), (g), (i), and (j)

For Boiler B-4:

- (1) **40 CFR 60.40c(a) and (c)**
- (2) **40 CFR 60.41c**
- (3) **40 CFR 60.48c (a), (d), (i), and (j)**

...

Conclusion and Recommendation

Unless otherwise stated, information used in this review was derived from the application and additional information submitted by the applicant. An application for the purposes of this review was received on March 28, 2016.

The construction and operation of this proposed amendment shall be subject to the conditions of the attached proposed MSOP Administrative Amendment No. 005-37006-00076. The staff recommends to the Commissioner that this MSOP Administrative Amendment be approved.

IDEM Contact

- (a) Questions regarding this proposed permit can be directed to Brooke Haldeman at the Indiana Department Environmental Management, Office of Air Quality, Permits Branch, 100 North Senate Avenue, MC 61-53 IGCN 1003, Indianapolis, Indiana 46204-2251 or by telephone at (317) 234-5176 or toll free at 1-800-451-6027 extension 5176.
- (b) A copy of the findings is available on the Internet at: <http://www.in.gov/ai/appfiles/idem-caats/>
- (c) For additional information about air permits and how the public and interested parties can participate, refer to the IDEM Permit Guide on the Internet at: <http://www.in.gov/idem/5881.htm>; and the Citizens' Guide to IDEM on the Internet at: <http://www.in.gov/idem/6900.htm>.

**Emission Calculations
PTE Summary**

**Company Name: Mariah Foods, LP
Source Address: 1333 Indiana Avenue Columbus, Indiana 47202
Permit Number 005-37006-00076
Reviewer: Brooke Haldeman
Date: April 22, 2016**

Emission Units	Uncontrolled PTE (Tons/Year)									
	PM	PM10	PM2.5	SO2	NOx	VOC	CO	Total HAP	Worst Case Single HAP	
Boiler B-1 (natural gas)	0.10	0.41	0.41	0.03	5.41	0.30	4.54	0.10	0.10	Hexane
Boiler B-1 (No. 2 fuel oil)	0.79	0.94	0.84	27.99	7.88	0.13	1.97	1.93E-05	5.91E-06	Selenium
Boiler No. 1 (B-1) (worst case)*	0.79	0.94	0.84	27.99	7.88	0.30	4.54	0.10	0.10	Hexane
Boiler B-4	0.10	0.41	0.41	0.03	5.41	0.30	4.54	0.10	0.10	Hexane
Natural Gas-Fired Smoke House Furnaces	0.07	0.27	0.27	0.02	3.54	0.19	2.98	0.07	0.06	Hexane
Smoke Houses SMH-1 through SMH-5	23.21	23.21	23.21	0.00	0.00	19.27	0.00	3.36	2.63	Phenol
Totals	24.17	24.83	24.73	28.04	16.84	20.06	12.07	3.63	2.63	Phenol

* Emission rates are worst case between Natural gas and #2 Fuel oil.

**Appendix A: Emissions Calculations
Natural Gas Combustion Only
MM BTU/HR <100
Boiler B-1 (Natural Gas)**

Company Name: Mariah Foods, LP
Source Address: 1333 Indiana Avenue Columbus, Indiana 47202
Permit Number: 005-37006-00076
Reviewer: Brooke Haldeman
Date: April 22, 2016

Heat Input Capacity MMBtu/hr 12.600	HHV mmBtu mmscf 1020	Potential Throughput MMCF/yr 108.212	UNIT B-1 TOTAL	MMBtu/hr 12.600 12.600
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Emission Factor in lb/MMCF	Pollutant						
	PM*	PM10*	direct PM2.5*	SO2	NOx 100 **see below	VOC	CO
Potential Emission in tons/yr	0.10	0.41	0.41	0.03	5.41	0.30	4.54

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

HAPs - Organics					
Emission Factor in lb/MMcf	Benzene	Dichlorobenzene	Formaldehyde	Hexane	Toluene
Potential Emission in tons/yr	2.1E-03	1.2E-03	7.5E-02	1.8E+00	3.4E-03
	1.1E-04	6.5E-05	4.1E-03	0.097	1.8E-04

HAPs - Metals					
Emission Factor in lb/MMcf	Lead	Cadmium	Chromium	Manganese	Nickel
Potential Emission in tons/yr	5.0E-04	1.1E-03	1.4E-03	3.8E-04	2.1E-03
	2.7E-05	6.0E-05	7.6E-05	2.1E-05	1.1E-04

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

TOTAL HAPs: 0.10

Methodology

All emission factors are based on normal firing.
 MMBtu = 1,000,000 Btu
 MMCF = 1,000,000 Cubic Feet of Gas
 Emission Factors are from AP 42, Chapter 1.4, Tables 1.4-1, 1.4-2, 1.4-3, SCC #1-02-006-02, 1-01-006-02, 1-03-006-02, and 1-03-006-03
 Potential Throughput (MMCF) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1 MMCF/1,020 MMBtu
 Emission (tons/yr) = Throughput (MMCF/yr) x Emission Factor (lb/MMCF)/2,000 lb/ton

Appendix A: Emissions Calculations
Commercial/Institutional/Residential Combustors (< 100 mmBtu/hr)
#1 and #2 Fuel Oil
Boiler B-1 (No. 2 Fuel Oil)

Company Name: Mariah Foods, LP
Source Address: 1333 Indiana Avenue Columbus, Indiana 47202
Permit Number 005-37006-00076
Reviewer: Brooke Haldeman
Date: April 22, 2016

Heat Input Capacity MMBtu/hr	Potential Throughput kgals/year	S = Weight % Sulfur	UNIT	MMBTu/hr
12.60	788.40	0.5	B-1	12.60

Emission Factor in lb/kgal	Pollutant						
	PM*	PM10	direct PM2.5	SO2 (142S)	NOx	VOC	CO
Potential Emission in tons/yr	0.79	0.94	0.84	27.99	7.88	0.13	1.97

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

Emission Factor in lb/mmBtu	HAPs - Metals				
	Arsenic	Beryllium	Cadmium	Chromium	Lead
Potential Emission in tons/yr	1.6E-06	1.2E-06	1.2E-06	1.2E-06	3.5E-06

Emission Factor in lb/mmBtu	HAPs - Metals (continued)			
	Mercury	Manganese	Nickel	Selenium
Potential Emission in tons/yr	1.2E-06	2.4E-06	1.2E-06	5.9E-06

TOTAL HAPs: 1.93E-05

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
Natural Gas-Fired Boiler (B-4)**

Company Name: Mariah Foods, LP
Source Address: 1333 Indiana Avenue Columbus, Indiana 47202
Permit Number: 005-37006-00076
Reviewer: Brooke Haldeman
Date: April 22, 2016

Heat Input Capacity MMBtu/hr 12.600	HHV mmBtu mmscf 1020	Potential Throughput MMCF/yr 108.212	UNIT B-4 TOTAL	MMBtu/hr 12.600 12.600
---	-------------------------------	--	----------------------	------------------------------

	Pollutant						
	PM*	PM10*	direct PM2.5*	SO2	NOx 100 **see below	VOC	CO
Emission Factor in lb/MMCF	1.9	7.6	7.6	0.6		5.5	84
Potential Emission in tons/yr	0.10	0.41	0.41	0.03	5.41	0.30	4.54

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

HAPs - Organics					
	Benzene	Dichlorobenzene	Formaldehyde	Hexane	Toluene
Emission Factor in lb/MMcf	2.1E-03	1.2E-03	7.5E-02	1.8E+00	3.4E-03
Potential Emission in tons/yr	1.1E-04	6.5E-05	4.1E-03	9.7E-02	1.8E-04

HAPs - Metals					
	Lead	Cadmium	Chromium	Manganese	Nickel
Emission Factor in lb/MMcf	5.0E-04	1.1E-03	1.4E-03	3.8E-04	2.1E-03
Potential Emission in tons/yr	2.7E-05	6.0E-05	7.6E-05	2.1E-05	1.1E-04

The five highest organic and metal HAPs emission factors are provided above. **TOTAL HAPs: 0.10**
 Additional HAPs emission factors are available in AP-42, Chapter 1.4.

Methodology

All emission factors are based on normal firing.
 MMBtu = 1,000,000 Btu
 MMCF = 1,000,000 Cubic Feet of Gas
 Emission Factors are from AP 42, Chapter 1.4, Tables 1.4-1, 1.4-2, 1.4-3, SCC #1-02-006-02, 1-01-006-02, 1-03-006-02, and 1-03-006-03
 Potential Throughput (MMCF) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1 MMCF/1,020 MMBtu
 Emission (tons/yr) = Throughput (MMCF/yr) x Emission Factor (lb/MMCF)/2,000 lb/ton

**Appendix A: Emissions Calculations
Natural Gas Combustion Only
MM BTU/HR <100
Natural Gas-Fired Smoke House Furnaces**

Company Name: Mariah Foods, LP
Source Address: 1333 Indiana Avenue Columbus, Indiana 47202
Permit Number: 005-37006-00076
Reviewer: Brooke Haldeman
Date: April 22, 2016

Heat Input Capacity MMBtu/hr	HHV mmBtu mmscf	Potential Throughput MMCF/yr	UNITS		Total
			MMBtu/hr	MMBtu/hr	
8.250	1020	70.853	5 furnaces	1.65 each	8.250

Emission Factor in lb/MMCF	Pollutant						
	PM*	PM10*	direct PM2.5*	SO2	NOx	VOC	CO
	1.9	7.6	7.6	0.6	100 **see below	5.5	84
Potential Emission in tons/yr	0.07	0.27	0.27	0.02	3.54	0.19	2.98

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

HAPs - Organics					
Emission Factor in lb/MMcf	Benzene	Dichlorobenzene	Formaldehyde	Hexane	Toluene
	2.1E-03	1.2E-03	7.5E-02	1.8E+00	3.4E-03
Potential Emission in tons/yr	7.4E-05	4.3E-05	2.7E-03	6.4E-02	1.2E-04

HAPs - Metals					
Emission Factor in lb/MMcf	Lead	Cadmium	Chromium	Manganese	Nickel
	5.0E-04	1.1E-03	1.4E-03	3.8E-04	2.1E-03
Potential Emission in tons/yr	1.8E-05	3.9E-05	5.0E-05	1.3E-05	7.4E-05

The five highest organic and metal HAPs emission factors are provided above. **TOTAL HAPs: 0.07**
 Additional HAPs emission factors are available in AP-42, Chapter 1.4.

Methodology

All emission factors are based on normal firing.
 MMBtu = 1,000,000 Btu
 MMCF = 1,000,000 Cubic Feet of Gas
 Emission Factors are from AP 42, Chapter 1.4, Tables 1.4-1, 1.4-2, 1.4-3, SCC #1-02-006-02, 1-01-006-02, 1-03-006-02, and 1-03-006-03
 Potential Throughput (MMCF) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1 MMCF/1,020 MMBtu
 Emission (tons/yr) = Throughput (MMCF/yr) x Emission Factor (lb/MMCF)/2,000 lb/ton

Greenhouse Gas			
Emission Factor in lb/MMcf	CO2	CH4	N2O
	120,000	2.3	2.2
Potential Emission in tons/yr	4,251	0.1	0.1
Summed Potential Emissions in tons/yr	4,251		
CO2e Total in tons/yr	4,277		

Methodology

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

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

Company Name: **Mariah Foods, LP**
Source Address: **1333 Indiana Avenue Columbus, Indiana 47202**
Permit Number **005-37006-00076**
Reviewer: **Brooke Haldeman**
Date: **April 22, 2016**

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/yr)	Amount of Sawdust Used (lbs/hr)	Potential Emissions (tons/yr)	Amount of Sawdust Used (lbs/hr)	Potential Emissions (tons/yr)	Amount of Sawdust Used (lbs/hr)	Potential Emissions (tons/yr)	Amount of Sawdust Used (lbs/hr)	Potential Emissions (tons/yr)	
PM	53	60	6.96	60	6.96	60	6.96	10	1.16	10	1.16	23.21
PM-10/PM-2.5	53	60	6.96	60	6.96	60	6.96	10	1.16	10	1.16	23.21
VOC	44	60	5.78	60	5.78	60	5.78	10	0.96	10	0.96	19.27
Formaldehyde	1.33	60	0.17	60	0.17	60	0.17	10	0.03	10	0.03	0.58
Phenol	6.00	60	0.79	60	0.79	60	0.79	10	0.13	10	0.13	2.63
Acetaldehyde	0.33	60	0.04	60	0.04	60	0.04	10	0.01	10	0.01	0.14
TOTAL HAPs											3.36	

Methodology

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

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

	Smoke House (SMH-1)			Smoke House (SMH-2)			Smoke House (SMH-3)			Smoke House (SMH-4)			Smoke House (SMH-5)		
	Process Weight Rate (tons/hr)	Potential PM Emissions (lb/hr)	Allowable PM Emissions (lb/hr)	Process Weight Rate (tons/hr)	Potential PM Emissions (lb/hr)	Allowable PM Emissions (lb/hr)	Process Weight Rate (tons/hr)	Potential PM Emissions (lb/hr)	Allowable PM Emissions (lb/hr)	Process Weight Rate (tons/hr)	Potential PM Emissions (lb/hr)	Allowable PM Emissions (lb/hr)	Process Weight Rate (tons/hr)	Potential PM Emissions (lb/hr)	Allowable PM Emissions (lb/hr)
326 IAC 6-3-2	1.76	1.59	5.98	3.21	1.59	8.95	3.21	1.59	8.95	3.60	0.27	9.67	2.40	0.27	7.37

Methodology

The 326 IAC 6-3-2 Allowable PM Emission Rate (lbs/hr) were calculated with the following equation:

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

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

E = rate of emission in pounds per hour and

P = process weight rate in tons per hour



Indiana Department of Environmental Management

We Protect Hoosiers and Our Environment.

100 N. Senate Avenue • Indianapolis, IN 46204

(800) 451-6027 • (317) 232-8603 • www.idem.IN.gov

Michael R. Pence
Governor

Carol S. Comer
Commissioner

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

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

DATE: May 11, 2016

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

SUBJECT: Final Decision
Administrative Amendment
005-37006-00076

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:
Alic Bent – August Mack Environmental
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 2/17/2016

Mail Code 61-53

IDEM Staff	GHOTOPP 5/11/2016 Mariah Foods, LP 005-37006-00076 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		

Line	Article Number	Name, Address, Street and Post Office Address	Postage	Handing Charges	Act. Value (If Registered)	Insured Value	Due Send if COD	R.R. Fee	S.D. Fee	S.H. Fee	Rest. Del. Fee	Remarks
1		Bill Jones Mariah Foods, LP 1333 Indiana Ave Columbus IN 47202 (Source CAATS) via certified mail										
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. Lcnfc 1039 Sycamore St Columbus IN 47201 (Affected Party)										
5		Bartholomew County Commissioners 440 Third Street Columbus IN 47202 (Local Official)										
6		Mr. Jean Terpstra 3210 Grove Pkwy Columbus IN 47203 (Affected Party)										
7		Terry Lowe 1079 Spring Meadow Court Franklin IN 46131 (Affected Party)										
8		Mr. Charles Mitch 3210 Grove Parkway Columbus IN 47203 (Affected Party)										
9		Bartholomew County Health Department 440 3rd Street, Suite 303 Columbus IN 47201 (Health Department)										
10		Mr. Alic Bent August Mack Environmental, Inc. 1302 N Meridian St, Suite 300 Indianapolis IN 46202 (Consultant)										
11												
12												
13												
14												
15												

Total number of pieces Listed by Sender	Total number of Pieces Received at Post Office	Postmaster, Per (Name of Receiving employee)	The full declaration of value is required on all domestic and international registered mail. The maximum indemnity payable for the reconstruction of nonnegotiable documents under Express Mail document reconstructing insurance is \$50,000 per piece subject to a limit of \$50, 000 per occurrence. The maximum indemnity payable on Express mil merchandise insurance is \$500. The maximum indemnity payable is \$25,000 for registered mail, sent with optional postal insurance. See Domestic Mail Manual R900, S913, and S921 for limitations of coverage on inured and COD mail. See International Mail Manual for limitations o coverage on international mail. Special handling charges apply only to Standard Mail (A) and Standard Mail (B) parcels.
9			