



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

We Protect Hoosiers and Our Environment.

Mitchell E. Daniels Jr.
Governor

Thomas W. Easterly
Commissioner

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

TO: Interested Parties / Applicant

DATE: July 11, 2008

RE: Tyson Fresh Meats, Inc. / 017-21598-00034

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

Notice of Decision: Approval – Effective Immediately

Please be advised that on behalf of the Commissioner of the Department of Environmental Management, I have issued a decision regarding the enclosed matter. Pursuant to IC 13-15-5-3, this permit is effective immediately, unless a petition for stay of effectiveness is filed and granted, and may be revoked or modified in accordance with the provisions of IC 13-15-7-1.

If you wish to challenge this decision, IC 4-21.5-3-7 and IC 13-15-6-1(b) or IC 13-15-6-1(a) require that you file a petition for administrative review. This petition may include a request for stay of effectiveness and must be submitted to the Office of Environmental Adjudication, 100 North Senate Avenue, Government Center North, Suite N 501E, Indianapolis, IN 46204.

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

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

The filing of a petition for administrative review is complete on the earliest of the following dates that apply to the filing:

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

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

- (1) the name and address of the person making the request;

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

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

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

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

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



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Part 70 Operating Permit Renewal OFFICE OF AIR QUALITY

Tyson Fresh Meats, Inc.
2125 South County Road 125 West
Logansport, Indiana 46947

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

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

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

Operation Permit No.: T 017-21598-00034	
Issued by: Original signed by	Issuance Date: July 11, 2008
Alfred C. Dumauval, Ph.D, Section Chief Permits Branch Office of Air Quality	Expiration Date: July 11, 2013

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SECTION A

SOURCE SUMMARY

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

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

The Permittee owns and operates a meat processing source.

Source Address:	2125 South County Road 125 West, Logansport, Indiana 46947
Mailing Address:	2125 South County Road 125 West, Logansport, Indiana 46947
General Source Phone Number:	605 - 235 - 4801
SIC Code:	2011, 2077
County Location:	Cass
Source Location Status:	Attainment for all criteria pollutants
Source Status:	Part 70 Operating Permit Program Minor Source, under PSD Rules Minor Source, Section 112 of the Clean Air Act 1 of 28 Source Categories

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

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

- (a) One (1) inedible pork rendering facility, with a process rate of 13,957 pounds per hour of crax (bone meal), consisting of the following equipment:
- (1) One (1) Dupps 320U wet cooker and one (1) Dupps 1800 wet cooker that will be used only as a backup, equipped with an integral condenser, with emissions controlled by a venturi/packed bed scrubber, exhausting to Stack C003.
 - (2) One (1) Dupps drainer screw, with emissions controlled by a venturi/packed bed scrubber, exhausting to Stack C003.
 - (3) Three (3) Dupps high pressure pressors, with emissions controlled by a venturi/packed bed scrubber, exhausting to Stack C003.
 - (4) Two (2) Sharples centrifuges, with emissions controlled by a venturi/packed bed scrubber, exhausting to Stack C003.
 - (5) Two (2) screw conveyors, with emissions controlled by a venturi/packed bed scrubber, exhausting to Stack C003.
 - (6) One (1) precrusher metering bin, with emissions controlled by a venturi/packed bed scrubber, exhausting to Stack C003.
 - (7) One (1) inedible crax bin, with uncontrolled emissions exhausting inside the building.
 - (8) One (1) hammermill with uncontrolled emissions exhausting inside the building.
 - (9) One (1) screen, with uncontrolled emissions exhausting inside the building.

- (10) One (1) inedible crax silo, with uncontrolled emissions exhausting to the atmosphere.
- (11) One (1) truck loadout, with uncontrolled emissions.
- (12) One (1) rail loadout, with uncontrolled emissions.
- (b) Two (2) natural gas-fired boilers, identified as B001 and B002, using propane and choice white grease as alternative fuels, installed in 1968 and modified in 2006, exhausting to Stack B1, rated at fifty (50) million British thermal units per hour, each.

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

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

- (a) Edible Rendering System
- (b) Blood Drying System with a maximum finished product rate of 2,625 pounds per hour consisting of a Dupps Ring Dryer Furnace which is a natural gas fired combustion unit using propane as an alternative fuel with maximum heat input rate of three (3) million British thermal units per hour (MMBtu/hr), a product bin using a spray tower identified as C001, and a product storage silo using a baghouse as control for particulate matter. Uncontrolled emissions PM₁₀ from handling dried product are less than 5 pounds per hour. [326 IAC 6-3-2]
- (c) Floatation System including a melt tank, an Sharples centrifuge, a Sweeco screener, and a sludge tank identified as IR002 with a maximum usage of 11,550 pounds of inedible material per hour and using a spray tower identified as C001 as control for odor. Uncontrolled emissions PM₁₀ are less than 5 pounds per day. [326 IAC 6-3-2]
- (d) Hair System including the Anco hair hydrolizer, the batch cooker, and the hair silo with a maximum usage of 3,855 pounds of raw hair material per hour and using a spray tower identified as C001 as control for odor. [326 IAC 6-3-2]

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

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

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

SECTION B GENERAL CONDITIONS

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

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

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

- (a) This permit, T 017-21598-00034, is issued for a fixed term of five (5) years from the issuance date of this permit, as determined in accordance with IC 4-21.5-3-5(f) and IC 13-15-3-3. Subsequent revisions, modifications, or amendments of this permit do not affect the expiration date of this permit.
- (b) If IDEM, OAQ, upon receiving a timely and complete renewal permit application, fails to issue or deny the permit renewal prior to the expiration date of this permit, this existing permit shall not expire and all terms and conditions shall continue in effect, including any permit shield provided in 326 IAC 2-7-15, until the renewal permit has been issued or denied.

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

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

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

B.4 Enforceability [326 IAC 2-7-7]

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

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

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

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

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

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

- (a) The Permittee shall furnish to IDEM, OAQ, within a reasonable time, any information that IDEM, OAQ may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. The submittal by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34). Upon request, the Permittee shall also furnish to IDEM, OAQ copies of records required to be kept by this permit.
- (b) For information furnished by the Permittee to IDEM, OAQ, the Permittee may include a claim of confidentiality in accordance with 326 IAC 17.1. When furnishing copies of requested records directly to U.S. EPA, the Permittee may assert a claim of confidentiality in accordance with 40 CFR 2, Subpart B.

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

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

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

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

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

and

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

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

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

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

- (a) If required by specific condition(s) in Section D of this permit, the Permittee shall maintain and implement Preventive Maintenance Plans (PMPs) including the following information on each facility:
- (1) Identification of the individual(s) responsible for inspecting, maintaining, and repairing emission control devices;
 - (2) A description of the items or conditions that will be inspected and the inspection schedule for said items or conditions; and
 - (3) Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.
- (b) A copy of the PMPs shall be submitted to IDEM, OAQ upon request and within a reasonable time, and shall be subject to review and approval by IDEM, OAQ. IDEM, OAQ may require the Permittee to revise its PMPs whenever lack of proper maintenance causes or is the primary contributor to an exceedance of any limitation on emissions or potential to emit. The PMPs do not require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).
- (c) To the extent the Permittee is required by 40 CFR Part 60/63 to have an Operation Maintenance, and Monitoring (OMM) Plan for a unit, such Plan is deemed to satisfy the PMP requirements of 326 IAC 1-6-3 for that unit.

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

- (a) An emergency, as defined in 326 IAC 2-7-1(12), is not an affirmative defense for an action brought for noncompliance with a federal or state health-based emission limitation.
- (b) An emergency, as defined in 326 IAC 2-7-1(12), constitutes an affirmative defense to an action brought for noncompliance with a technology-based emission limitation if the affirmative defense of an emergency is demonstrated through properly signed, contemporaneous operating logs or other relevant evidence that describe the following:
- (1) An emergency occurred and the Permittee can, to the extent possible, identify the causes of the emergency;
 - (2) The permitted facility was at the time being properly operated;
 - (3) During the period of an emergency, the Permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards or other requirements in this permit;
 - (4) For each emergency lasting one (1) hour or more, the Permittee notified IDEM, OAQ within four (4) daytime business hours after the beginning of the emergency, or after the emergency was discovered or reasonably should have been discovered;

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

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

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

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

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

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

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

- (6) The Permittee immediately took all reasonable steps to correct the emergency.
- (c) In any enforcement proceeding, the Permittee seeking to establish the occurrence of an emergency has the burden of proof.
 - (d) This emergency provision supersedes 326 IAC 1-6 (Malfunctions). This permit condition is in addition to any emergency or upset provision contained in any applicable requirement.
 - (e) The Permittee seeking to establish the occurrence of an emergency shall make records available upon request to ensure that failure to implement a PMP did not cause or contribute to an exceedance of any limitations on emissions. However, IDEM, OAQ may require that the Preventive Maintenance Plans required under 326 IAC 2-7-4(c)(9) be revised in response to an emergency.
 - (f) Failure to notify IDEM, OAQ by telephone or facsimile of an emergency lasting more than one (1) hour in accordance with (b)(4) and (5) of this condition shall constitute a violation of 326 IAC 2-7 and any other applicable rules.
 - (g) If the emergency situation causes a deviation from a technology-based limit, the Permittee may continue to operate the affected emitting facilities during the emergency provided the Permittee immediately takes all reasonable steps to correct the emergency and minimize emissions.
 - (h) The Permittee shall include all emergencies in the Quarterly Deviation and Compliance Monitoring Report.

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

- (a) Pursuant to 326 IAC 2-7-15, the Permittee has been granted a permit shield. The permit shield provides that compliance with the conditions of this permit shall be deemed compliance with any applicable requirements as of the date of permit issuance, provided that either

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

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

- (b) If, after issuance of this permit, it is determined that the permit is in nonconformance with an applicable requirement that applied to the source on the date of permit issuance, IDEM, OAQ shall immediately take steps to reopen and revise this permit and issue a compliance order to the Permittee to ensure expeditious compliance with the applicable requirement until the permit is reissued. The permit shield shall continue in effect so long as the Permittee is in compliance with the compliance order.
- (c) No permit shield shall apply to any permit term or condition that is determined after issuance of this permit to have been based on erroneous information supplied in the permit application. Erroneous information means information that the Permittee knew to be false, or in the exercise of reasonable care should have been known to be false, at the time the information was submitted.
- (d) Nothing in 326 IAC 2-7-15 or in this permit shall alter or affect the following:
 - (1) The provisions of Section 303 of the Clean Air Act (emergency orders), including the authority of the U.S. EPA under Section 303 of the Clean Air Act;
 - (2) The liability of the Permittee for any violation of applicable requirements prior to or at the time of this permit's issuance;
 - (3) The applicable requirements of the acid rain program, consistent with Section 408(a) of the Clean Air Act; and
 - (4) The ability of U.S. EPA to obtain information from the Permittee under Section 114 of the Clean Air Act.
- (e) This permit shield is not applicable to any change made under 326 IAC 2-7-20(b)(2) (Sections 502(b)(10) of the Clean Air Act changes) and 326 IAC 2-7-20(c)(2) (trading based on State Implementation Plan (SIP) provisions).
- (f) This permit shield is not applicable to modifications eligible for group processing until after IDEM, OAQ has issued the modifications. [326 IAC 2-7-12(c)(7)]
- (g) This permit shield is not applicable to minor Part 70 permit modifications until after IDEM, OAQ has issued the modification. [326 IAC 2-7-12(b)(8)]

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

- (a) All terms and conditions of permits established prior to T 017-21598-00034 and issued pursuant to permitting programs approved into the state implementation plan have been either:

- (1) incorporated as originally stated,
 - (2) revised under 326 IAC 2-7-10.5, or
 - (3) deleted under 326 IAC 2-7-10.5.
- (b) Provided that all terms and conditions are accurately reflected in this permit, all previous registrations and permits are superseded by this Part 70 operating permit.

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

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

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

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

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

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

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

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

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

- (a) This permit may be modified, reopened, revoked and reissued, or terminated for cause. The filing of a request by the Permittee for a Part 70 Operating Permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated non-compliance does not stay any condition of this permit. [326 IAC 2-7-5(6)(C)] The notification by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).
- (b) This permit shall be reopened and revised under any of the circumstances listed in IC 13-15-7-2 or if IDEM, OAQ determines any of the following:
- (1) That this permit contains a material mistake.
 - (2) That inaccurate statements were made in establishing the emissions standards or other terms or conditions.
 - (3) That this permit must be revised or revoked to assure compliance with an applicable requirement. [326 IAC 2-7-9(a)(3)]

- (c) Proceedings by IDEM, OAQ to reopen and revise this permit shall follow the same procedures as apply to initial permit issuance and shall affect only those parts of this permit for which cause to reopen exists. Such reopening and revision shall be made as expeditiously as practicable. [326 IAC 2-7-9(b)]
- (d) The reopening and revision of this permit, under 326 IAC 2-7-9(a), shall not be initiated before notice of such intent is provided to the Permittee by IDEM, OAQ at least thirty (30) days in advance of the date this permit is to be reopened, except that IDEM, OAQ may provide a shorter time period in the case of an emergency. [326 IAC 2-7-9(c)]

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

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

Request for renewal shall be submitted to:

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

- (b) A timely renewal application is one that is:
 - (1) Submitted at least nine (9) months prior to the date of the expiration of this permit; and
 - (2) If the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ on or before the date it is due.
- (c) If the Permittee submits a timely and complete application for renewal of this permit, the source's failure to have a permit is not a violation of 326 IAC 2-7 until IDEM, OAQ takes final action on the renewal application, except that this protection shall cease to apply if, subsequent to the completeness determination, the Permittee fails to submit by the deadline specified in writing by IDEM, OAQ any additional information identified as being needed to process the application.

B.18 Permit Amendment or Modification [326 IAC 2-7-11] [326 IAC 2-7-12] [40 CFR 72]

- (a) Permit amendments and modifications are governed by the requirements of 326 IAC 2-7-11 or 326 IAC 2-7-12 whenever the Permittee seeks to amend or modify this permit.
- (b) Any application requesting an amendment or modification of this permit shall be submitted to:

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

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

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

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

- (a) No Part 70 permit revision shall be required under any approved economic incentives, marketable Part 70 permits, emissions trading, and other similar programs or processes for changes that are provided for in a Part 70 permit.
- (b) Notwithstanding 326 IAC 2-7-12(b)(1) and 326 IAC 2-7-12(c)(1), minor Part 70 permit modification procedures may be used for Part 70 modifications involving the use of economic incentives, marketable Part 70 permits, emissions trading, and other similar approaches to the extent that such minor Part 70 permit modification procedures are explicitly provided for in the applicable State Implementation Plan (SIP) or in applicable requirements promulgated or approved by the U.S. EPA.

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

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

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

Indiana Department of Environmental Management
Permits 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

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

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

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

- (b) The Permittee may make Section 502(b)(10) of the Clean Air Act changes (this term is defined at 326 IAC 2-7-1(36)) without a permit revision, subject to the constraint of 326 IAC 2-7-20(a). For each such Section 502(b)(10) of the Clean Air Act change, the required written notification shall include the following:
- (1) A brief description of the change within the source;
 - (2) The date on which the change will occur;
 - (3) Any change in emissions; and
 - (4) Any permit term or condition that is no longer applicable as a result of the change.

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

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

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

A modification, construction, or reconstruction is governed by the requirements of 326 IAC 2 and 326 IAC 2-7-10.5.

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

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

- (a) Enter upon the Permittee's premises where a Part 70 source is located, or emissions related activity is conducted, or where records must be kept under the conditions of this permit;
- (b) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, have access to and copy any records that must be kept under the conditions of this permit;
- (c) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, inspect any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit;

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

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

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

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

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

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

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

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

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

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

SECTION C SOURCE OPERATION CONDITIONS

Entire Source

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

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

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

C.2 Opacity [326 IAC 5-1]

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

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

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

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

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

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

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

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

C.6 Stack Height [326 IAC 1-7]

The Permittee shall comply with the applicable provisions of 326 IAC 1-7 (Stack Height Provisions), for all exhaust stacks through which a potential (before controls) of twenty-five (25) tons per year or more of particulate matter or sulfur dioxide is emitted. The provisions of 326 IAC 1-7-1(3), 326 IAC 1-7-2, 326 IAC 1-7-3(c) and (d), 326 IAC 1-7-4, and 326 IAC 1-7-5(a), (b), and (d) are not federally enforceable.

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

- (a) Notification requirements apply to each owner or operator. If the combined amount of regulated asbestos containing material (RACM) to be stripped, removed or disturbed is at least two hundred sixty (260) linear feet on pipes or one hundred sixty (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
Asbestos Section, Office of Air Quality
100 North Senate Avenue
MC 61-52 IGCN 1003
Indianapolis, Indiana 46204-2251

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

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

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

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

- (a) All testing shall be performed according to the provisions of 326 IAC 3-6 (Source Sampling)

Procedures), except as provided elsewhere in this permit, utilizing any applicable procedures and analysis methods specified in 40 CFR 51, 40 CFR 60, 40 CFR 61, 40 CFR 63, 40 CFR 75, or other procedures approved by IDEM, OAQ.

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

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

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

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

Compliance Requirements [326 IAC 2-1.1-11]

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

- (a) The Permittee prepared and submitted written emergency reduction plans (ERPs) consistent with safe operating procedures on July 16, 2001.
- (b) Upon direct notification by IDEM, OAQ that a specific air pollution episode level is in effect, the Permittee shall immediately put into effect the actions stipulated in the approved ERP for the appropriate episode level. [326 IAC 1-5-3]

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

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

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

- (a) Upon detecting an excursion or exceedance, the Permittee shall restore operation of the emissions unit (including any control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions.
- (b) The response shall include minimizing the period of any startup, shutdown or malfunction and taking any necessary corrective actions to restore normal operation and prevent the likely recurrence of the cause of an excursion or exceedance (other than those caused by excused startup or shutdown conditions). Corrective actions may include, but are not limited to, the following:
 - (1) initial inspection and evaluation
 - (2) recording that operations returned to normal without operator action (such as through response by a computerized distribution control system); or

- (3) any necessary follow-up actions to return operation to within the indicator range, designated condition, or below the applicable emission limitation or standard, as applicable.
- (c) A determination of whether the Permittee has used acceptable procedures in response to an excursion or exceedance will be based on information available, which may include, but is not limited to, the following:
 - (1) monitoring results;
 - (2) review of operation and maintenance procedures and records;
 - (3) inspection of the control device, associated capture system, and the process.
- (d) Failure to take reasonable response steps shall be considered a deviation from the permit.
- (e) The Permittee shall maintain the following records:
 - (1) monitoring data;
 - (2) monitor performance data, if applicable; and
 - (3) corrective actions taken.

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

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

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

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

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

- (a) In accordance with the compliance schedule specified in 326 IAC 2-6-3(b)(1), starting in 2004 and every three (3) years thereafter, the Permittee shall submit by July 1 an emission statement covering the previous calendar year. The emission statement shall contain, at a minimum, the information specified in 326 IAC 2-6-4(c) and shall meet the following requirements:
 - (1) Indicate estimated actual emissions of all pollutants listed in 326 IAC 2-6-4(a);
 - (2) Indicate estimated actual emissions of regulated pollutants as defined by 326 IAC 2-7-1(32) ("Regulated pollutant, which is used only for purposes of Section 19 of this

rule”) from the source, for purpose of fee assessment.
The statement must be submitted to:

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

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

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

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

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

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

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

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

- (c) Unless otherwise specified in this permit, any notice, report, or other submission required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ on or before the date it is due.
- (d) Unless otherwise specified in this permit, all reports required in Section D of this permit shall be submitted within thirty (30) days of the end of the reporting period. All reports do require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

- (e) Reporting periods are based on calendar years, unless otherwise specified in this permit. For the purpose of this permit "calendar year" means the twelve (12) month period from January 1 to December 31 inclusive.

Stratospheric Ozone Protection

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

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

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

SECTION D.1

FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(15)]: Inedible pork rendering facility

- (a) One (1) inedible pork rendering facility, with a process rate of 13,957 pounds per hour of crax (bone meal), consisting of the following equipment:
- (1) One (1) Dupps 320U wet cooker and one (1) Dupps 1800 wet cooker that will be used only as a backup, equipped with an integral condenser, with emissions controlled by a venturi/packed bed scrubber, exhausting to Stack C003.
 - (2) One (1) Dupps drainer screw, with emissions controlled by a venturi/packed bed scrubber, exhausting to Stack C003.
 - (3) Three (3) Dupps high pressure pressors, with emissions controlled by a venturi/ packed bed scrubber, exhausting to Stack C003.
 - (4) Two (2) Sharples centrifuges, with emissions controlled by a venturi/packed bed scrubber, exhausting to Stack C003.
 - (5) Two (2) screw conveyors, with emissions controlled by a venturi/packed bed scrubber, exhausting to Stack C003.
 - (6) One (1) precrusher metering bin, with emissions controlled by a venturi/packed bed scrubber, exhausting to Stack C003.
 - (7) One (1) inedible crax bin, with uncontrolled emissions exhausting inside the building.
 - (8) One (1) hammermill with uncontrolled emissions exhausting inside the building.
 - (9) One (1) screen, with uncontrolled emissions exhausting inside the building.
 - (10) One (1) inedible crax silo, with uncontrolled emissions exhausting to the atmosphere.
 - (11) One (1) truck loadout, with uncontrolled emissions.
 - (12) One (1) rail loadout, with uncontrolled emissions.

(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 2-7-5(1)]

D.1.1 Particulate [326 IAC 6-3-2]

Pursuant to 326 IAC 6-3-2, the particulate emission rate from the following processes at this inedible pork rendering facility shall be limited as follows:

Process	Process Weight (tons/hour)	Emission Rate (pounds/hour)
Wet Cooker	6.98	15.07
Screw Conveyor	6.98	15.07
Precrusher Metering Bin	6.98	15.07
Drainer Screw	6.98	15.07
Pressor (1)	6.98	15.07
Pressor (2)	6.98	15.07
Pressor (3)	6.98	15.07
Centrifuge (1)	6.98	15.07
Centrifuge (2)	6.98	15.07
Inedible Crax Bin	6.98	15.07
Hammermill	6.98	15.07
Screen	6.98	15.07
Inedible Crax Silo	6.98	15.07
Truck Loadout	6.98	15.07
Rail Loadout	6.98	15.07

D.1.2 Volatile Organic Compound (VOC) [326 IAC 8-1-6]

Pursuant to T 017-7369-00034, issued on May 3, 2001, and 326 IAC 8-1-6, emissions from the wet cooker shall be vented through the venturi/packed bed scrubber as a part of the BACT.

D.1.3 Special Condition [326 IAC 2-7-6(6)]

Pursuant to T 017-7369-00034, issued on May 3, 2001, the inedible pork rendering facility shall be operated in the following manner to minimize odors:

- (a) Precautions in operation of the process equipment to minimize overheating and burning of inedible rendering material.
- (b) Cleaning of inedible rendering equipment and areas shall be done every operational day.
- (c) Air from the room housing the inedible rendering equipment shall be vented through six roof vents and scrubbed with water using fine mist atomizing spray nozzles. A minimum of one spray nozzle shall be operational at each vent. The atomizing spray nozzles shall be used as needed to minimize the release of air contaminants from the roof vents, and only when the ambient temperature is above a temperature which will prevent the water spray from freezing.

D.1.4 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for these facilities, including the venturi/packed bed scrubber.

Compliance Determination Requirements

D.1.5 VOC Control [326 IAC 2-7-6(6)] [326 IAC 8-1-6]

In order to comply with Condition D.1.2, the venturi/packed bed scrubber shall be in operation at all times that the Dupps 320U wet cooker or the Dupps 1800 wet cooker is in operation.

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

D.1.6 Visible Emissions Notations

- (a) Visible emission notations of the venturi/packed bed scrubber stack exhaust (Stack C003) shall be performed once per day during normal daylight operations. A trained employee shall record whether emissions are normal or abnormal.
- (b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.
- (c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.
- (d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.
- (e) If abnormal emissions are observed, the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions or Exceedances. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances shall be considered a deviation from this permit.

D.1.7 Scrubber Parametric Monitoring [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]

The Permittee shall record the following operating parameters for the venturi/packed bed scrubber at least once per day when the inedible pork rendering facility is in operation. The normal ranges for these parameters are as follows:

- (a) The pressure drop across the first stage of the scrubber shall not exceed than 6.0 inches of water.
- (b) The liquid recycle rate across the first stage of the scrubber shall be at least 50 gallons per minute.
- (c) The pressure drop across the second stage of the scrubber shall not exceed 4.0 inches of water.
- (d) The liquid recycle rate across the second stage of the scrubber shall be at least 150 gallons per minute.
- (e) The pH of the scrubbant in the second stage of the scrubber shall be subject to the following pursuant to manufacturer's specifications:
 - (1) When sodium Hypochlorite and caustic are used, the pH of the recycled scrubbing solution shall be at least 8.0 pH;
 - (2) When chlorine dioxide is used as the oxidant, the recycled scrubbing solution will be maintained between 6.0 to 7.0 pH, unless acid or caustic are applied to promote absorption of odorous gases.
- (f) The oxidation reduction potential (ORP) shall be at least 50 millivolts (mv).
- (g) The temperature between the condenser and the venturi scrubber shall not exceed 180°F.

- (h) The temperature entering the packed bed scrubber shall not exceed 120°F.

When for any one (1) reading, a parameter is outside the above mentioned range, the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions or Exceedances. A reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances, shall be considered a deviation from this permit.

The instrument used for determining the pressure shall comply with Section C - Instrument Specifications, of this permit, shall be subject to approval by IDEM, OAQ, and shall be calibrated at least once every six (6) months.

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

D.1.8 Record Keeping Requirements

- (a) To document compliance with Condition D.1.6, the Permittee shall maintain a daily record of visible emission notations of the venturi/packed bed scrubber exhaust (Stack C003). 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 inedible pork rendering facility did not operate that day).
- (b) To document compliance with Condition D.1.7, the Permittee shall maintain a daily record of the following operational parameters. The Permittee shall include in its daily record when the readings were not taken and the reason for the lack of a reading, (e.g., the inedible pork rendering facility did not operate that day):
- (1) The pressure drop across the first stage of the scrubber.
 - (2) The liquid recycle rate across the first stage of the scrubber.
 - (3) The pressure drop across the second stage of the scrubber.
 - (4) The liquid recycle rate across the second stage of the scrubber.
 - (5) The pH of the scrubbant in the second stage of the scrubber.
 - (6) The oxidation reduction potential (ORP).
 - (7) The temperature between the condenser and the venturi scrubber.
 - (8) The temperature entering the packed bed scrubber.
- (c) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

SECTION D.2 FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(15)]: Two (2) Boilers

- (b) Two (2) natural gas-fired boilers, identified as B001 and B002, using propane and choice white grease as alternative fuels, installed in 1968 and modified in 2006, exhausting to Stack B1, rated at fifty (50) million British thermal units per hour, each.

(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 2-7-5(1)]

D.2.1 Particulate Emission Limitations for Sources of Indirect Heating [326 IAC 6-2-4]

Pursuant to 326 IAC 6-2-4 (Particulate Emission Limitations for Sources of Indirect Heating: Emission limitations for facilities specified in 326 IAC 6-2-1(d)), the particulate emissions from each of the two (2) boilers (B001 and B002) shall not exceed 0.329 pounds per million British thermal units heat input (lb/MMBtu).

D.2.2 Fuel Oil Restriction

Pursuant to Significant Permit Modification 017-21989-00034, issued September 7, 2006, the Permittee shall not burn fuel oil at either of the existing boilers, identified as B001 and B002. Any change or modification to these boilers is required to have prior approval from the IDEM, OAQ.

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

D.2.3 Reporting Requirements

The natural gas boiler certification shall be submitted to the address listed in Section C - General Reporting Requirements, of this permit, using the reporting forms located at the end of this permit, or its equivalent, within thirty (30) days after the end of the six (6) month period being reported. The natural gas-fired boiler certification does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

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

D.2.4 General Provisions Relating to NSPS [326 IAC 12-1] [40 CFR Part 60, Subpart A]

- (a) Pursuant to 40 CFR Part 60.40c, 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 for the two (2) boilers, identified as B001 and B002, except as otherwise specified in 40 CFR Part 60, Subpart Dc.
- (b) Pursuant to 40 CFR 60.10, the Permittee shall submit all required notifications and reports to:

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

D.2.5 Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units Requirements [326 IAC 12-1] [40 CFR Part 60, Subpart Dc]

Pursuant to 40 CFR Part 60, Subpart Dc, the Permittee shall comply with the provisions of 40 CFR Part 60.40c, which are incorporated by reference as 326 IAC 12-1 for the two (2) boilers (B001 and B002) as specified as follows:

§ 60.40c Applicability and delegation of authority.

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

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

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

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

§ 60.41c Definitions.

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

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

Coal means all solid fuels classified as anthracite, bituminous, subbituminous, or lignite by the American Society of Testing and Materials in ASTM D388 (incorporated by reference, see §60.17), coal refuse, and petroleum coke. Coal-derived synthetic fuels derived from coal for the purposes of creating useful heat, including but not limited to solvent refined coal, gasified coal, coal-oil mixtures, and coal-water mixtures, are also included in this definition for the purposes of this subpart.

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

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

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

Combustion research means the experimental firing of any fuel or combination of fuels in a steam generating unit for the purpose of conducting research and development of more efficient combustion or

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

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

Distillate oil means fuel oil that complies with the specifications for fuel oil numbers 1 or 2, as defined by the American Society for Testing and Materials in ASTM D396 (incorporated by reference, see §60.17).

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

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

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

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

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

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

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

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

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

Natural gas means: (1) A naturally occurring mixture of hydrocarbon and nonhydrocarbon gases found in geologic formations beneath the earth's surface, of which the principal constituent is methane; or (2) liquefied petroleum (LP) gas, as defined by the American Society for Testing and Materials in ASTM D1835 (incorporated by reference, see §60.17).

Noncontinental area means the State of Hawaii, the Virgin Islands, Guam, American Samoa, the

Commonwealth of Puerto Rico, or the Northern Mariana Islands.

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

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

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

Residual oil means crude oil, fuel oil that does not comply with the specifications under the definition of distillate oil, and all fuel oil numbers 4, 5, and 6, as defined by the American Society for Testing and Materials in ASTM D396 (incorporated by reference, see §60.17).

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

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

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

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

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

§ 60.48c Reporting and recordkeeping requirements.

(a) The owner or operator of each affected facility shall submit notification of the date of construction or reconstruction and actual startup, as provided by §60.7 of this part. This notification shall include:

(1) The design heat input capacity of the affected facility and identification of fuels to be combusted in the affected facility.

(3) The annual capacity factor at which the owner or operator anticipates operating the affected facility based on all fuels fired and based on each individual fuel fired.

(g)(1) Except as provided under paragraphs (g)(2) and (g)(3) of this section, the owner or operator of each affected facility shall record and maintain records of the amount of each fuel combusted during each operating day.

(2) As an alternative to meeting the requirements of paragraph (g)(1) of this section, the owner or operator of an affected facility that combusts only natural gas, wood, fuels using fuel certification in §60.48c(f) to demonstrate compliance with the SO₂ standard, fuels not subject to an emissions standard (excluding opacity), or a mixture of these fuels may elect to record and maintain records of the amount of each fuel

combusted during each calendar month.

(3) As an alternative to meeting the requirements of paragraph (g)(1) of this section, the owner or operator of an affected facility or multiple affected facilities located on a contiguous property unit where the only fuels combusted in any steam generating unit (including steam generating units not subject to this subpart) at that property are natural gas, wood, distillate oil meeting the most current requirements in §60.42C to use fuel certification to demonstrate compliance with the SO₂ standard, and/or fuels, excluding coal and residual oil, not subject to an emissions standard (excluding opacity) may elect to record and maintain records of the total amount of each steam generating unit fuel delivered to that property during each calendar month.

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

(j) The reporting period for the reports required under this subpart is each six-month period. All reports shall be submitted to the Administrator and shall be postmarked by the 30th day following the end of the reporting period.

SECTION D.3

FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(15)]: Insignificant Activities

- (a) Edible Rendering System
- (b) Blood Drying System with a maximum finished product rate of 2,625 pounds per hour consisting of a Dupps Ring Dryer Furnace which is a natural gas fired combustion unit using propane as an alternative fuel with maximum heat input rate of three (3) million British thermal units per hour (MMBtu/hr), a product bin using a spray tower identified as C001 as control for odor, and a product storage silo using a baghouse as control for particulate matter. Uncontrolled emissions PM10 from handling dried product are less than 5 pounds per day. [326 IAC 6-3-2]
- (c) Floatation System including a melt tank, an Alfa Laval centrifuge, a Sweeco screener, and a sludge tank identified as IR002 with a maximum usage of 11,550 pounds of inedible material per hour and using a spray tower identified as C001 as control for odor. Uncontrolled emissions PM10 are less than 5 pounds per day. [326 IAC 6-3-2]
- (d) Hair System including the Anco hair hydrolizer, the batch cooker, and the hair silo with a maximum usage of 3,855 pounds of raw hair material per hour and using a spray tower identified as C001 as control for odor. [326 IAC 6-3-2]

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

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

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

Pursuant to 326 IAC 6-3-2, the particulate emission rate from the insignificant blood drying system, flotation system and hair system shall not exceed 17.89 pounds per hour.

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

**PART 70 OPERATING PERMIT
CERTIFICATION**

Source Name: Tyson Fresh Meats, Inc.
Source Address: 2125 South County Road, 125 West, Logansport, IN 46947
Mailing Address: 800 Stevens Port Drive, Suite 709, Dakota Dunes, SD 57049
Part 70 Permit No.: T 017-21598-00034

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

Please check what document is being certified:

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

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

Signature:

Printed Name:

Title/Position:

Phone:

Date:

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

**PART 70 OPERATING PERMIT
EMERGENCY OCCURRENCE REPORT**

Source Name: Tyson Fresh Meats, Inc.
Source Address: 2125 South County Road, 125 West, Logansport, Indiana IN 46947
Mailing Address: 800 Stevens Port Drive, Suite 709, Dakota Dunes, SD 57049
Part 70 Permit No.: T 017-21598-00034

This form consists of 2 pages

Page 1 of 2

<input type="checkbox"/> This is an emergency as defined in 326 IAC 2-7-1(12) C The Permittee must notify the Office of Air Quality (OAQ), within four (4) business hours (1-800-451-6027 or 317-233-0178, ask for Compliance Section); and C The Permittee must submit notice in writing or by facsimile within two (2) working days (Facsimile Number: 317-233-6865), and follow the other requirements of 326 IAC 2-7-16.
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If any of the following are not applicable, mark N/A

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

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

Page 2 of 2

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

Form Completed by: _____
Title / Position: _____
Date: _____
Phone: _____

A certification is not required for this report.

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

**PART 70 OPERATING PERMIT
SEMI-ANNUAL NATURAL GAS-FIRED BOILER CERTIFICATION**

Source Name: Tyson Fresh Meats, Inc.
Source Address: 2125 South County Road, 125 West, Logansport, IN 46947
Mailing Address: 800 Stevens Port Drive, Suite 709, Dakota Dunes, SD 57049
Part 70 Permit No.: T 017-21598-00034
Units: Boilers B001 and B002

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

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

A certification by the responsible official as defined by 326 IAC 2-7-1(34) is required for this report.

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

**PART 70 OPERATING PERMIT
 QUARTERLY DEVIATION AND COMPLIANCE MONITORING REPORT**

Source Name: Tyson Fresh Meats, Inc.
 Source Address: 2125 South County Road, 125 West, Logansport, IN 46947
 Mailing Address: 800 Stevens Port Drive, Suite 709, Dakota Dunes, SD 57049
 Part 70 Permit No.: T 017-21598-00034

Months: _____ **to** _____ **Year:** _____

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

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

Form Completed By: _____

Title/Position: _____

Date: _____

Phone: _____

Attach a signed certification to complete this report.

Indiana Department of Environmental Management
Office of Air Quality

Technical Support Document (TSD) for a Part 70 Operating Permit Renewal

Source Background and Description

Source Name:	Tyson Fresh Meats, Inc.
Source Location:	2125 South County Road 125 West, Logansport, Indiana 46947
County:	Cass
SIC Code:	2011, 2077
Permit Renewal No.:	T 017-21598-00034
Permit Reviewer:	Edward A. Longenberger/Anne-Marie C. Hart

The Office of Air Quality (OAQ) has reviewed the operating permit renewal application from Tyson Fresh Meats, Inc. relating to the operation of a meat processing source.

History

Tyson Fresh Meats, Inc. was issued a Part 70 Operating Permit (T 017-7369-00034) on May 3, 2001. On August 4, 2005, Tyson Fresh Meats, Inc. submitted an application to the OAQ requesting to renew its operating permit.

Permitted Emission Units and Pollution Control Equipment

- (a) One (1) inedible pork rendering facility, with a process rate of 13,957 pounds per hour of crax (bone meal), consisting of the following equipment:
- (1) One (1) Dupps 320U wet cooker, installed in 2000, and one (1) Dupps 1800 wet cooker that will be used only as a backup, equipped with an integral condenser, with emissions controlled by a venturi/packed bed scrubber, exhausting to Stack C003.
 - (2) One (1) Dupps drainer screw, installed prior to 1995 and modified in 2000, with emissions controlled by a venturi/packed bed scrubber, exhausting to Stack C003.
 - (3) Three (3) Dupps high pressure pressors, installed prior to 1995 and modified in 2000, with emissions controlled by a venturi/ packed bed scrubber, exhausting to Stack C003.
 - (4) Two (2) Sharples centrifuges, installed prior to 1995 and modified in 2000, with emissions controlled by a venturi/packed bed scrubber, exhausting to Stack C003.
 - (5) Two (2) screw conveyors, installed prior to 1995 and modified in 2000, with emissions controlled by a venturi/packed bed scrubber, exhausting to Stack C003.
 - (6) One (1) precrusher metering bin, installed prior to 1995 and modified in 2000, with emissions controlled by a venturi/packed bed scrubber, exhausting to Stack C003.
 - (7) One (1) inedible crax bin, installed prior to 1995, with uncontrolled emissions exhausting inside the building.

- (8) One (1) hammermill, installed prior to 1995, with uncontrolled emissions exhausting inside the building.
 - (9) One (1) screen, installed prior to 1995, with uncontrolled emissions exhausting inside the building.
 - (10) One (1) inedible crax silo, installed prior to 1995, with uncontrolled emissions exhausting to the atmosphere.
 - (11) One (1) truck loadout, installed prior to 1995, with uncontrolled emissions.
 - (12) One (1) rail loadout, with uncontrolled emissions.
- (b) Two (2) natural gas-fired boilers, identified as B001 and B002, using propane and choice white grease as alternative fuels, installed in 1968 and modified in 2006, exhausting to Stack B1, rated at fifty (50) million British thermal units per hour, each.

Insignificant Activities

- (a) Edible Rendering System
- (b) Blood Drying System with a maximum finished product rate of 2,625 pounds per hour consisting of a Dupps Ring Dryer Furnace which is a natural gas fired combustion unit using propane as an alternative fuel with maximum heat input rate of three (3) million British thermal units per hour (MMBtu/hr), a product bin using a spray tower identified as C001 and a product storage silo using a baghouse as control for particulate matter. Uncontrolled emissions PM₁₀ from handling dried product are less than 5 pounds per day. [326 IAC 6-3-2]
- (c) Floation System including a melt tank, an Sharples centrifuge, a Sweeco screener, and a sludge tank identified as IR002 with a maximum usage of 11,550 pounds of inedible material per hour and using a spray tower identified as C001 as control for odor. Uncontrolled emissions PM₁₀ are less than 5 pounds per day. [326 IAC 6-3-2]
- (d) Hair System including the Anco hair hydrolizer, the batch cooker, and the hair silo with a maximum usage of 3,855 pounds of raw hair material per hour and using a spray tower identified as C001 as control for odor. [326 IAC 6-3-2]
- (e) Natural gas-fired combustion sources using propane as an alternative fuel with heat input equal to or less than ten (10) million Btu per hour:
 - (1) MAU-IR-1, 3.73 MMBtu/hr, Inedible rendering
 - (2) MAU-IR-2, 2.99 MMBtu/hr, Inedible rendering
 - (3) MAU-ER-1, 2.40 MMBtu/hr, Inedible rendering
 - (4) MAU-K-5, 3.84 MMBtu/hr, Skinning
 - (5) MAU-K-7, 0.46 MMBtu/hr, Crowd Pen
 - (6) MAU-CH-1, 3.00 MMBtu/hr, Chitts/ Casings
 - (7) MAU-CH-2, 1.9 MMBtu/hr, Chitts/ Casings
 - (8) MAU-C-3, 3.6 MMBtu/hr, Cut floor
 - (9) MAU-C-4, 4.4 MMBtu/hr, Cut floor
 - (10) MAU-H-1, 3.84 MMBtu/hr, Hides

- (11) MAU-M-1, 3.48 MMBtu/hr, Maintenance
 - (12) MAU-E-1, 2.40 MMBtu/hr, Engine Room
 - (13) HVA-12, 0.40 MMBtu/hr, Men's Locker Room
 - (14) HVA-13, 0.95 MMBtu/hr, Men's Locker Room
 - (15) HVA-15, 0.50 MMBtu/hr, Women's Locker Room
 - (16) HVA-16, 0.70 MMBtu/hr, Kitchen
 - (17) HVA-7, 0.50 MMBtu/hr, Cafeteria
 - (18) HVA-8, 0.20 MMBtu/hr, Classroom/ Meeting
 - (19) HVA-9, 0.07 MMBtu/hr, Support/ QC
 - (20) HVA-11, 0.23 MMBtu/hr, Welfare Office Lab
 - (21) HVA-23, 0.19 MMBtu/hr, New Women's Locker Room
 - (22) HVA-24, 0.40 MMBtu/hr, New Men's Locker Room
 - (23) HVA-25, 0.50 MMBtu/hr, Cafeteria
 - (24) HVA-3, 0.16 MMBtu/hr, USDA
 - (25) HVA-dock1, 0.15 MMBtu/hr, Dock
 - (26) HVA-dock2, 0.15 MMBtu/hr, Dock
- (f) Natural gas-fired combustion sources using propane as an alternative fuel whose potential uncontrolled emissions meet the exemption levels specified in 326 IAC 2-1.1-3(d)(1):
- (1) MAU-C-1, 9.00 MMBtu/hr, Cut floor
 - (2) MAU-C-2, 9.00 MMBtu/hr, Cut floor
 - (3) MAU-K-1, 7.68 MMBtu/hr, Kill floor
 - (4) MAU-K-2, 7.68 MMBtu/hr, Kill floor
 - (5) MAU-K-3, 7.68 MMBtu/hr, Kill floor
 - (6) MAU-K-4, 7.92 MMBtu/hr, Kill floor
 - (7) MAU-K-6, 8.16 MMBtu/hr, Stun and Bleed
- (g) Two (2) singers, natural gas fired combustion units using propane as an alternative fuel with maximum heat input rate of seven (7) million British thermal units per hour (MMBtu/hr), and whose potential uncontrolled emissions meet the exemption levels specified in 326 IAC 2- 1.1-3(d)(1).
- (h) One (1) vaporizer, natural gas fired combustion unit using propane as an alternative fuel with maximum heat input rate of three (3) million British thermal units per hour (MMBtu/hr).
- (i) One (1) flare, natural gas fired combustion unit using propane as an alternative fuel with maximum heat input rate of three (3) million British thermal units per hour (MMBtu/hr).
- (j) A spinal vacuum pump.
- (k) A vacuum pump for steam sanitizing.
- (l) A gasoline fuel transfer and dispensing operation handling less than or equal to 1,300 gallons per day.

- (m) A petroleum fuel, other than gasoline, dispensing facility, having a storage capacity of less than or equal to 10,500 gallons, and dispensing less than or equal to 230,000 gallons per month.
- (n) One (1) five hundred (500) gallon storage tank storing hydraulic oil.
- (o) Degreasing operations that do not exceed 145 gallons per 12 months, except if subject to 326 IAC 20-6.
- (p) The following equipment related to manufacturing activities not resulting in the emission of HAPs: brazing equipment, cutting torches, soldering equipment, welding equipment.
- (q) Operations using aqueous solutions containing less than 1% by weight of VOCs excluding HAPs.
- (r) Water based adhesives that are less than or equal to 5% by volume of VOCs excluding HAPs.
- (s) Forced and induced draft cooling tower system not regulated under a NESHAP.
- (t) Replacement or repair of electrostatic precipitators, bags in baghouses and filters in other air filtration equipment.
- (u) Heat exchanger cleaning and repair.
- (v) Paved and unpaved roads and parking lots with public access [326 IAC 6-4].
- (w) Purging of gas lines and vessels that is related to routine maintenance and repair of buildings, structures, or vehicles at the source where air emissions from those activities would not be associated with any production process.
- (x) Equipment used to collect any material that might be released during a malfunction, process upset, or spill cleanup, including catch tanks, temporary liquid separators, tanks, and fluid handling equipment.
- (y) Blowdown for any of the following: sight glass; boiler; compressors; pumps; and cooling tower.
- (z) On-site fire and emergency response training approved by the department.

Existing Approvals

Since the issuance of the Part 70 Operating Permit T 017-7369-00034 on May 3, 2001, the source has constructed and has been operating under the following approvals as well:

- (a) Administrative Amendment No. 017-14945-00034, issued on October 9, 2001;
- (b) Administrative Amendment No. 017-17771-00034, issued on July 2, 2003;
- (c) Administrative Amendment No. 017-20729-00034, issued on August 15, 2005;
- (d) Minor Source Modification No. 017-21915-00034, issued on January 13, 2006; and
- (e) Significant Permit Modification No. 017-21989-00034, issued on September 7, 2006;

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

The following terms and conditions from previous approvals have been revised in this Part 70 Operating Permit Renewal:

- (a) Condition D.1.8(f), the condition requiring daily monitoring of the residual chlorine in the second stage of the scrubber.

Reason not incorporated: As recommended by the OAQ Compliance Branch, the company will monitor and record the oxidation reduction potential (ORP) rather than the residual chlorine in the second stage of the scrubber. The ORP is a more useful measurement of the scrubber operating condition.

- (b) Condition D.2.1, the condition which limits particulate emissions from the two (2) boilers (B001 and B002) to less than 0.8 pounds per million British thermal units, pursuant to 326 IAC 6-2-3.

Reason not incorporated: Since the boilers were modified in 2006 to burn choice white grease, pursuant to 326 IAC 6-2-1, the boilers shall be subject to the particulate limitation prescribed by 326 IAC 6-2-4.

Air Pollution Control Justification as an Integral Part of the Process

The applicant has submitted the following justification such that the condenser be considered as an integral part of the wet cooker:

- (a) The cooker cannot be operated without the condenser (also known as the heat exchanger), as the condenser's primary function is to collapse the condensable vapors exhausting from the cooker. Without the condenser, back pressure to the cooker would be created almost immediately. Not only can the cooker not operate under a back pressure condition, but hot vapors would be blown into the rendering room which is a serious safety hazard.

If the condenser were to suffer a mechanical breakdown, the cooker would be shut down immediately, which would suspend production at the facility.

- (b) The secondary function of the condenser is to produce hot water for use in the meat packing process at the facility. The two boilers do not have sufficient capacity to produce enough hot water during sanitation periods at the facility. Without sufficient hot water, USDA would shut down the plant for inadequate sanitation. This would result in a substantial negative economic impact.

IDEM, OAQ evaluated the justifications made in the initial Part 70 Operating Permit T017-7369-00034 issued May 3, 2001 and determined that the condensers were not considered an integral part of the wet cooker. However, IDEM, OAQ has re-evaluated the justifications and agree that the condenser will be considered as an integral part of the wet cooker, based on the reasoning that the primary purpose of the condenser is not air pollution control. Therefore, the permitting level will be determined using the potential to emit after the condenser. Operating conditions in the proposed permit will specify that this condenser shall operate at all times when the wet cooker is in operation.

Enforcement Issue

There are no enforcement actions pending.

Stack Summary

Stack ID	Operation	Height (feet)	Diameter (feet)	Flow Rate (acfm)	Temperature (°F)
B-1	Boilers	52.5	4.5	60,000	460
C003	Scrubber	43	2.83	19,360	110
3-Silo	Inedible Crax Silo	26.5	3	Unknown	Ambient

Emission Calculations

See pages 1 through 12 of Appendix A of this document for detailed emission calculations. The emissions for the insignificant Blood Drying System, Flootation System and Hair System were submitted by the applicant and have been verified and found to be accurate and correct.

County Attainment Status

The source is located in Cass County

Pollutant	Status
PM ₁₀	Attainment
PM _{2.5}	Attainment
SO ₂	Attainment
NO _x	Attainment
8-hour Ozone	Attainment
CO	Attainment
Lead	Attainment

- (a) Cass County has been classified as attainment for PM_{2.5}. U.S. EPA has not yet established the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2 for PM_{2.5} emissions. Therefore, until the U.S. EPA adopts specific provisions for PSD review for PM_{2.5} emissions, it has directed states to regulate PM₁₀ emissions as a surrogate for PM_{2.5} emissions. See the State Rule Applicability – Entire Source section.
- (b) 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 emissions and NO_x emissions are considered when evaluating the rule applicability relating to ozone. Cass County has been designated as attainment or unclassifiable for ozone. Therefore, VOC emissions and NO_x emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2. See the State Rule Applicability – Entire Source section.
- (c) Cass County has been classified as attainment or unclassifiable in Indiana for all remaining criteria pollutants. Therefore, these emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2. See the State Rule Applicability – Entire Source section.

- (d) On October 25, 2006, the Indiana Air Pollution Control Board finalized a rule revision to 326 IAC 1-4-1 revoking the one-hour ozone standard in Indiana.
- (e) **Fugitive Emissions**
 Since this type of operation is not one of the twenty-eight (28) listed source categories under 326 IAC 2-2 or 326 IAC 2-3 and since there are no applicable New Source Performance Standards that were in effect on August 7, 1980, the fugitive emissions are not counted toward determination of PSD or Emission Offset applicability.

Unrestricted Potential Emissions

This table reflects the unrestricted potential emissions of the source.

Pollutant	tons/year
PM	107.23
PM ₁₀	107.23
SO ₂	15.75
VOC	18.61
CO	79.02
NO _x	167.71

HAPs	tons/year
Hexane	1.68
Total	1.77

Negligible amounts of other HAPs not included in table

- (a) The potential to emit (as defined in 326 IAC 2-7-1(29)) of PM₁₀ and NO_x are each greater than one hundred (100) tons per year. Therefore, the source is subject to the provisions of 326 IAC 2-7.
- (b) The potential to emit (as defined in 326 IAC 2-7-1(29)) of all other criteria pollutants are less than one hundred (<100) tons per year.

Fugitive Emissions

Since this type of operation is not one of the twenty-eight (28) listed source categories under 326 IAC 2-7, fugitive emissions are not counted toward the determination of Part 70 applicability.

Actual Emissions

The following table shows the actual emissions from the source. This information reflects the 2003 OAQ emission data.

Pollutant	Actual Emissions (tons/year)
PM _{2.5}	13
PM ₁₀	33
SO ₂	2
VOC	9
CO	25
NO _x	33
HAP	Not reported

Part 70 Permit Conditions

This source is subject to the requirements of 326 IAC 2-7, pursuant to which the source has to meet the following:

- (a) Emission limitations and standards, including those operational requirements and limitations that assure compliance with all applicable requirements at the time of issuance of Part 70 permits.
- (b) Monitoring and related record keeping requirements which assume that all reasonable information is provided to evaluate continuous compliance with the applicable requirements.

Potential to Emit After Issuance

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

Process/Emission Unit	Potential to Emit (tons/year)						
	PM	PM ₁₀	SO ₂	VOC	CO	NO _x	HAPs
Wet Cooker	0.23	0.23	0.367	13.45	0.183	0.183	-
Drainer screw	0.14	0.14	-	-	-	-	-
Three (3) pressors	0.56	0.56	-	-	-	-	-
Two (2) centrifuges	0.04	0.04	-	-	-	-	-
Hammermill	16.38	16.38	-	-	-	-	-
Inedible crax silo	0.52	0.52	-	-	-	-	-
Boiler B001 (Worst Case Fuel)	8.32	8.32	3.59	1.20	18.40	45.48	0.413
Boiler B002 (Worst Case Fuel)	8.32	8.32	3.59	1.20	18.40	45.48	0.413
Insignificant Activities							
Blood Drying System	3.91	3.42	-	-	-	-	-
Floatation System	1.16	1.16	-	-	-	-	-
Hair System	0.38	0.12	-	1.77	-	-	-
Insignificant Combustion (Worst Case Fuel)	2.19	3.80	8.20	2.73	42.04	76.57	0.94
Unpaved Roads	29.64	8.00	-	-	-	-	-
Total	42.15	43.01	15.75	18.61	79.02	167.71	1.77
Major Source Threshold	250	250	250	250	250	250	Single 10 Combined 25

"-" indicates zero emissions from emissions unit
 Unpaved roads not included in total emissions

- (a) This existing stationary source is not major for PSD because the emissions of each criteria pollutant are less than two hundred fifty (<250) tons per year, and it is not one of the twenty-eight (28) listed source categories.
- (b) **Fugitive Emissions**
Since this type of operation is not one of the twenty-eight (28) listed source categories under 326 IAC 2-2 or 326 IAC 2-3, fugitive emissions are not counted toward the determination of PSD and Emission Offset applicability.

Federal Rule Applicability

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

None of the emission units at this source have the potential to emit before controls equal to or greater than the major source threshold. Therefore, the requirements of 40 CFR Part 64, CAM are not applicable to any of the existing units as part of this Part 70 Permit Renewal.

- (b) The two (2) boilers, identified as B001 and B002, are subject to the New Source Performance Standard for Small Industrial-Commercial-Institutional Steam Generating Units (40 CFR 60.40c, Subpart Dc), which is incorporated by reference as 326 IAC 12.

Nonapplicable portions of the NSPS will not be included in the permit. The two (2) boilers, identified as B001 and B002, are subject to the following portions of Subpart Dc:

- (1) 40 CFR 60.40c (a), (b), (c) and (d)
 - (2) 40 CFR 60.41c
 - (3) 40 CFR 60.48c (a)(1) and (3), (g), (i) and (j)
- (c) There are no National Emission Standards for Hazardous Air Pollutants (NESHAP) (326 IAC 14, 326 IAC 20 and 40 CFR Part 63) included in this permit renewal

State Rule Applicability - Entire Source

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

The potential to emit of each criteria pollutant (PM, PM₁₀, VOC, NO_x, CO and SO₂) are each less than two hundred fifty (250) tons per year. Therefore, the requirements of 326 IAC 2-2 do not apply.

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

The operation of this meat processing source will emit less than ten (10) tons per year of a single HAP and less than twenty-five (25) tons per year of a combination of HAPs. Therefore, 326 IAC 2-4.1 does not apply.

326 IAC 2-6 (Emission Reporting)

This source is subject to 326 IAC 2-6 (Emission Reporting) because it is required to have an operating permit under 326 IAC 2-7, Part 70 program. Pursuant to this rule, the Permittee shall submit an emission statement certified pursuant to the requirements of 326 IAC 2-6. In accordance with the compliance schedule specified in 326 IAC 2-6-3, an emission statement must be submitted triennially by July 1 beginning in 2007 and every 3 years after. Therefore, the next emission statement for this source must be submitted by July 1, 2010. The emission statement shall contain, at a minimum, the information specified in 326 IAC 2-6-4.

326 IAC 5-1 (Opacity Limitations)

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

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

326 IAC 6-4 (Fugitive Dust Emissions Limitations)

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

State Rule Applicability – Individual Facilities

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

The two (2) natural gas-fired boilers, identified as B001 and B002, each rated at fifty (50) million British thermal units per hour, were modified in 2006 to use choice white grease as alternative fuel. Therefore, pursuant to 326 IAC 6-2-1(d), the particulate emissions from each boiler shall be limited by the following equation given in 326 IAC 6-2-4(a):

$$P_t = 1.09/Q^{0.26}$$

where:

P_t = Pounds of particulate emitted per million British thermal units (lb/mmBtu) heat input

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

The total boiler heat input capacity for the source is 100 million British thermal units per hour.

$$P_t = 1.09/(100)^{0.26} = 0.329 \text{ lb/mmBtu heat input}$$

Based on Appendix A, the worst-case potential particulate emission rate from each boiler is:

$$\begin{aligned} 8.32 \text{ ton/yr} \times (2000 \text{ lbs/ton} / 8760 \text{ hrs/yr}) &= 1.90 \text{ lb/hr} \\ (1.90 \text{ lb/hr} / 50 \text{ mmBtu/hr}) &= 0.038 \text{ lb PM per mmBtu} \end{aligned}$$

The worst-case particulate emissions from each boiler are 0.038 pounds per million British thermal units, which is less than the allowable of 0.329 pounds per million British thermal units. Therefore, each boiler (B001 and B002) can comply with 326 IAC 6-2-4.

326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes)

- (a) Pursuant to 326 IAC 6-3-2, the particulate emission rate from the following processes at this inedible pork rendering facility, each controlled by the venturi/packed bed scrubber, shall not exceed a total of 15.07 pounds per hour when operating at a process weight rate of 13,957 pounds per hour.

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:

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

The particulate emissions from these facilities are as follows:

Process	Uncontrolled Emission Rate (lbs/hr)	Controlled Emission Rate (lbs/hr)
Wet Cooker	1.047	0.052
Screw Conveyor	0.216	0.011
Precrusher Metering Bin	0.216	0.011
Drainer Screw	0.643	0.032
Pressor (1)	0.857	0.043
Pressor (2)	0.857	0.043
Pressor (3)	0.857	0.043
Centrifuge (1)	0.086	0.004
Centrifuge (2)	0.086	0.004
Total	4.865	0.243

The particulate emissions from these processes, before control, total 4.87 pounds per hour. Therefore, these processes can comply with this limit.

- (b) Pursuant to 326 IAC 6-3-2, the particulate emission rate from the following processes at this inedible pork rendering facility shall not exceed a total of 15.07 pounds per hour when operating at a process weight rate of 6.98 pounds per hour.

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:

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

Emission Unit	Process Weight (tons/hour)	Emission Rate (lbs/hour)
Inedible Crax Bin	6.98	15.07
Hammermill	6.98	15.07
Screen	6.98	15.07
Inedible Crax Silo	6.98	15.07
Truck Loadout	6.98	15.07
Rail Loadout	6.98	15.07

The particulate emissions from these units can comply with the limit established in 326 IAC 6-3 without an add-on pollution control device.

326 IAC 7-1.1 (Sulfur Dioxide Emission Limitations)

The requirements of 326 IAC 7-1.1 are not applicable to either of the two (2) boilers, identified as B001 and B002, because each boiler has the potential to emit SO₂ less than ten (10) pounds per hour and twenty-five (25) tons per year.

326 IAC 8-1-6 (New Facilities; General Reduction Requirements)

Pursuant to T 017-7369-00034, issued on May 3, 2001, and 326 IAC 8-1-6, emissions from the Dupps 320U wet cooker shall be vented through venturi/packed bed scrubber as BACT.

State Rule Applicability – Insignificant Activities

326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes)

Pursuant to 326 IAC 6-3-2, the particulate emission rate from the insignificant blood drying system, flotation system and hair system shall not exceed the allowable particulate emission rate based on the following equation:

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

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

$$E = 4.10 \times 9.015^{0.67}$$

$$E = 17.89 \text{ pounds per hour}$$

The insignificant blood drying system, flotation system and hair system are able to comply with this limit.

326 IAC 8-3 (Organic Solvent Degreasing Operations)

The degreasing operation is a water-based operation and does not meet the applicability criteria for 326 IAC 8-3. Therefore, the provisions of 326 IAC 8-3 do not apply.

Compliance Determination and Monitoring Requirements

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

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

The inedible pork rendering facility has applicable compliance monitoring conditions as specified

below:

Control	Parameter	Frequency	Range	Excursions and Exceedances
Scrubber	First stage pressure drop	Daily	Not exceed 6.0 inches of water	Response Steps
Scrubber	First stage liquid recycle rate	Daily	At least 50 gpm	Response Steps
Scrubber	Second stage pressure drop	Daily	At least 4.0 inches of water	Response Steps
Scrubber	Second stage liquid recycle rate	Daily	At least 150 gpm	Response Steps
Scrubber	Second stage scrubbant pH (sodium Hypochlorite and caustic)	Daily	At least 8.0	Response Steps
Scrubber	Second stage scrubbant pH (chlorine dioxide)	Daily	Between 6.0 and 7.0 pH	Response Steps
Scrubber	Oxidation reduction potential (ORP)	Daily	At least 50 mv	Response Steps
Scrubber	Temperature entering packed bed	Daily	Less than 120°F	Response Steps
Scrubber	Visible emission notations	Daily	Normal	Response Steps

These monitoring conditions are necessary because the scrubber for the inedible pork rendering facility must operate properly to ensure compliance with 326 IAC 8-1-6 (New Facilities; General Reduction Requirements) and 326 IAC 2-7.

Recommendation

The staff recommends to the Commissioner that the Part 70 Operating Permit Renewal T017-21598-00034 be approved. This recommendation is based on the following facts and conditions:

Unless otherwise stated, information used in this review was derived from the application and additional information submitted by the applicant.

An application for the purposes of this review was received on August 4, 2005.

Conclusion

The operation of this meat processing source shall be subject to the conditions of the attached Part 70 Operating Permit Renewal No. T 017-21598-00034.

**Appendix A: Potential Emission Calculations
Inedible Pork Rendering Facility
Emission Summary**

Company Name: Tyson Fresh Meats, Inc.
Address City IN Zip: 2125 South County Road 125 West, Logansport, Indiana 46947
Permit Number: T 017-21598-00034
Reviewer: Edward A. Longenberger/Anne-Marie C. Hart
Date: July 24, 2007

Process	tons/year						
	PM	PM ₁₀	VOC	NO _x	CO	SO _x	HAPs
Inedible Pork Rendering Facility (Uncontrolled)							
Wet Cooker	4.59	4.59	13.45	0.18	0.18	0.37	0.00
Drainer Screw	2.82	2.82	0.00	0.00	0.00	0.00	0.00
High Pressure Pressors	11.26	11.26	0.00	0.00	0.00	0.00	0.00
Centrifuges	0.75	0.75	0.00	0.00	0.00	0.00	0.00
Hammermill	40.96	40.96	0.00	0.00	0.00	0.00	0.00
Inedible Crax Silo	0.52	0.52	0.00	0.00	0.00	0.00	0.00
Inedible Pork Rendering Facility (Controlled)							
Wet Cooker	0.23	0.23	13.45	0.18	0.18	0.37	0.00
Drainer Screw	0.14	0.14	0.00	0.00	0.00	0.00	0.00
High Pressure Pressors	0.56	0.56	0.00	0.00	0.00	0.00	0.00
Centrifuges	0.04	0.04	0.00	0.00	0.00	0.00	0.00
Hammermill	16.38	16.38	0.00	0.00	0.00	0.00	0.00
Inedible Crax Silo	0.52	0.52	0.00	0.00	0.00	0.00	0.00
Boilers B001 and B002 Natural Gas Combustion	0.83	3.33	2.41	43.80	36.80	0.26	0.83
Boilers B001 and B002 Propane Combustion	2.88	2.88	2.39	90.96	15.32	7.18	0.00
Boilers B001 and B002 Choice White Grease Combustion	16.64	16.64	0.00	67.46	6.14	0.00	0.00
Insignificant Combustion Units Natural Gas Combustion	0.95	3.80	2.75	50.05	42.04	0.30	0.94
Insignificant Combustion Units Propane Combustion	2.19	2.19	2.73	76.57	10.39	8.20	0.00
Fugitive Emissions*							
Unpaved Roads	29.64	8.00	0.00	0.00	0.00	0.00	0.00
Total Uncontrolled Emissions	79.72	81.33	18.61	167.71	79.02	15.75	1.77
Total Controlled Emissions	36.71	38.32	18.61	167.71	79.02	15.75	1.77

* Fugitive emissions are not counted toward total source emissions. This source is not one of the twenty-eight source categories.

Methodology

Total Uncontrolled Emissions and Total Controlled Emissions include the worst-case combustion source for each pollutant. The unit can burn only one type of fuel at a time.

**Appendix A: Potential Emission Calculations
Inedible Pork Rendering Facility**

Company Name: Tyson Fresh Meats, Inc.
Address City IN Zip: 2125 South County Road 125 West, Logansport, Indiana 46947
Permit Number: T 017-21598-00034
Reviewer: Edward A. Longenberger/Anne-Marie C. Hart
Date: July 24, 2007

Maximum Process Rate: 13,957 lbs/hr finished crax
6.98 tons/hr finished crax

Wet Cookers Controls: Scrubber

Pollutant	Material Throughput (tons/hr)	Emission Factor (lbs/ton)	Uncontrolled	Uncontrolled	Control Efficiency (%)	Controlled	Controlled
			Emission Rate (lbs/hr)	Emission Rate (tons/yr)		Emission Rate (lbs/hr)	Emission Rate (tons/yr)
PM	6.98	0.150	1.047	4.585	95.00%	0.052	0.229
PM-10	6.98	0.150	1.047	4.585	95.00%	0.052	0.229
VOC	6.98	0.440	3.071	13.449	0.00%	3.071	13.449
NOx	6.98	0.006	0.042	0.183	0.00%	0.042	0.183
CO	6.98	0.006	0.042	0.183	0.00%	0.042	0.183
SO2	6.98	0.012	0.084	0.367	0.00%	0.084	0.367

Emission factors from stack tests at other IBP facilities in Lexington and Dakota City, Nebraska, conducted in July 1998 and April 1999.

Hammermill Controls: Building

Pollutant	Material Throughput (tons/hr)	Emission Factor (lbs/ton)	Uncontrolled	Uncontrolled	Control Efficiency (%)	Controlled	Controlled
			Emission Rate (lbs/hr)	Emission Rate (tons/yr)		Emission Rate (lbs/hr)	Emission Rate (tons/yr)
PM	6.98	1.340	9.351	40.958	60.00%	3.740	16.383
PM-10	6.98	1.340	9.351	40.958	60.00%	3.740	16.383

Emission factors from previous permit are modified factors from AP-42 9.9.1-2 (Animal feed mills; hammermills). The emission factor for hammermills at animal feed mills (0.067 lbs/ton) is an after control factor, based on a cyclone for particulate control. Therefore, the before control factor has been determined using a conservative cyclone control efficiency of 95%. (0.067 lbs/ton) / 95% control = 1.34 lbs/ton before control. Since the factor is for animal feed mills, fat content is already included in the factor. Hence, no reduction is applied. Since the process exhausts inside a building, a control efficiency of 60% has been applied (EPA450/3-88-008).

Inedible Crax Silo Controls: None

Pollutant	Material Throughput (tons/hr)	Emission Factor (lbs/ton)	Uncontrolled	Uncontrolled	Control Efficiency (%)	Controlled	Controlled
			Emission Rate (lbs/hr)	Emission Rate (tons/yr)		Emission Rate (lbs/hr)	Emission Rate (tons/yr)
PM	6.98	0.017	0.119	0.520	0.00%	0.119	0.520
PM-10	6.98	0.017	0.119	0.520	0.00%	0.119	0.520

Emission factors from previous permit are modified factors from AP-42 9.9.1-2 (Animal feed mills; grain receiving). Since the factor is for animal feed mills, fat content is already included in the factor. Hence, no reduction is applied.

**Appendix A: Potential Emission Calculations
Inedible Pork Rendering Facility**

Company Name: Tyson Fresh Meats, Inc.
Address City IN Zip: 2125 South County Road 125 West, Logansport, Indiana 46947
Permit Number: T 017-21598-00034
Reviewer: Edward A. Longenberger/Anne-Marie C. Hart
Date: July 24, 2007

Uncontrolled Potential Emissions

	PM Emissions (tons/yr)	PM-10 Emissions (tons/yr)	VOC Emissions (tons/yr)	NOx Emissions (tons/yr)	CO Emissions (tons/yr)	SOx Emissions (tons/yr)	Particulate Control Device
Wet Cookers	4.585	4.585	13.449	0.183	0.183	0.367	Scrubber
Hammermill	40.958	40.958					Building
Inedible Crax Silo	0.520	0.520					None
Drainer Screw	2.816	2.816					Scrubber
Pressor (1)	3.754	3.754					Scrubber
Pressor (2)	3.754	3.754					Scrubber
Pressor (3)	3.754	3.754					Scrubber
Centrifuge (1)	0.375	0.375					Scrubber
Centrifuge (2)	0.375	0.375					Scrubber
Total	60.89	60.89	13.45	0.183	0.183	0.367	

Controlled Potential Emissions

	PM Emissions (tons/yr)	PM-10 Emissions (tons/yr)	VOC Emissions (tons/yr)	NOx Emissions (tons/yr)	CO Emissions (tons/yr)	SOx Emissions (tons/yr)	Particulate Control Device
Wet Cookers	0.229	0.229	13.449	0.183	0.183	0.367	Scrubber
Hammermill	16.383	16.383					Building
Inedible Crax Silo	0.520	0.520					None
Drainer Screw	0.141	0.141					Scrubber
Pressor (1)	0.188	0.188					Scrubber
Pressor (2)	0.188	0.188					Scrubber
Pressor (3)	0.188	0.188					Scrubber
Centrifuge (1)	0.019	0.019					Scrubber
Centrifuge (2)	0.019	0.019					Scrubber
Total	17.87	17.87	13.45	0.183	0.183	0.367	

Appendix A: Emission Calculations
 Particulate Emissions (PM and PM-10) for the Drainer, Pressors and Centrifuges

Company Name: Tyson Fresh Meats, Inc.
 Address City IN Zip: 2125 South County Road 125 West, Logansport, Indiana 46947
 Permit Number: T 017-21598-00034
 Reviewer: Edward A. Longenberger/Anne-Marie C. Hart
 Date: July 24, 2007

Unit ID	Control Efficiency (%)	Grain Loading per Actual Cubic foot of Outlet Air (grains/cub. ft.)	Gas or Air Flow Rate (acfm.)	PM Emission Rate before Controls (lb/hr)	PM Emission Rate before Controls (tons/yr)	PM Emission Rate after Controls (lb/hr)	PM Emission Rate after Controls (tons/yr)
Drainer Screw	95.0%	0.1000	750	0.643	2.82	0.032	0.141
Pressor (1)	95.0%	0.1000	1000	0.857	3.75	0.043	0.188
Pressor (2)	95.0%	0.1000	1000	0.857	3.75	0.043	0.188
Pressor (3)	95.0%	0.1000	1000	0.857	3.75	0.043	0.188
Centrifuge (1)	95.0%	0.0100	1000	0.086	0.375	0.004	0.019
Centrifuge (2)	95.0%	0.0100	1000	0.086	0.375	0.004	0.019

METHODOLOGY

Emission Rate in lbs/hr (before controls) = (grains/cub. ft.) (cub. ft./min.) (60 min/hr) (lb/7000 grains)

Emission Rate in tons/yr = (lbs/hr) (8760 hr/yr) (ton/2000 lb)

Emission Rate in lbs/hr (after controls) = Emission Rate (before controls)(lbs/hr) x (1-control efficiency)

Emission Rate in tons/yr = (lbs/hr) (8760 hr/yr) (ton/2000 lb)

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

Company Name: Tyson Fresh Meats, Inc.
Address City IN Zip: 2125 South County Road 125 West, Logansport, Indiana 46947
Permit Number: T 017-21598-00034
Reviewer: Edward A. Longenberger/Anne-Marie C. Hart
Date: July 24, 2007

Emission Factor in lb/MMCF	Pollutant					
	PM*	PM10*	SO2	NOx	VOC	CO
	1.90	7.60	0.600	100	5.50	84.0
				**see below		

*PM emission factor is filterable PM only. PM-10 emission factor is filterable and condensable PM-10 combined.

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

Equipment	Heat Input Capacity MMBtu/hr	Potential Throughput MMCF/yr	Potential Emission in tons/yr					
			PM*	PM10*	SO2	NOx	VOC	CO
B001	50.00	438	0.416	1.664	0.131	21.900	1.205	18.396
B002	50.00	438	0.416	1.664	0.131	21.900	1.205	18.396
Total	100.00	876	0.832	3.33	0.263	43.8	2.41	36.8

Methodology

All emission factors are based on normal firing.

MMBtu = 1,000,000 Btu

MMCF = 1,000,000 Cubic Feet of Gas

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

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 (SUPPLEMENT D 3/98)

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

See page 6 for HAPs emissions calculations.

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

Company Name: Tyson Fresh Meats, Inc.
Address City IN Zip: 2125 South County Road 125 West, Logansport, Indiana 46947
Permit Number: T 017-21598-00034
Reviewer: Edward A. Longenberger/Anne-Marie C. Hart
Date: July 24, 2007

HAPs - Organics

Emission Factor in lb/MMcf	Benzene 0.0021	Dichlorobenzene 0.0012	Formaldehyde 0.0750	Hexane 1.8000	Toluene 0.0034
Potential Emission in tons/yr	0.0009	0.0005	0.033	0.788	0.0015

HAPs - Metals

Emission Factor in lb/MMcf	Lead 0.0005	Cadmium 0.0011	Chromium 0.0014	Manganese 0.0004	Nickel 0.0021	Total HAPs
Potential Emission in tons/yr	0.0002	0.0005	0.0006	0.0002	0.0009	0.827

Methodology is the same as page 5.

The five highest organic and metal HAPs emission factors are provided above.

Additional HAPs emission factors are available in AP-42, Chapter 1.4.

**Appendix A: Emission Calculations
LPG-Propane - Industrial Boilers**

Company Name: Tyson Fresh Meats, Inc.
Address City IN Zip: 2125 South County Road 125 West, Logansport, Indiana 46947
Permit Number: T 017-21598-00034
Reviewer: Edward A. Longenberger/Anne-Marie C. Hart
Date: July 24, 2007

B001

Heat Input Capacity Potential Throughput
MMBtu/hr kgals/year S = Sulfur Content = gr/ccf

Emission Factor in lb/kgal	Pollutant					
	PM*	PM10*	SO2 (0.10S)	NOx	VOC 0.5 **TOC value	CO 3.2
Potential Emission in tons/yr	1.44	1.44	3.590	45.48	1.197	7.659

B002

Heat Input Capacity Potential Throughput
MMBtu/hr kgals/year S = Sulfur Content = gr/ccf

Emission Factor in lb/kgal	Pollutant					
	PM*	PM10*	SO2 (0.10S)	NOx	VOC 0.5 **TOC value	CO 3.2
Potential Emission in tons/yr	1.44	1.44	3.590	45.48	1.197	7.659

*PM emission factor is filterable PM only. PM10 emission factor is assumed to be the same as PM based on a footnote in Table 1.5-1, therefore PM10 is filterable only as well.

**The VOC value given is TOC. The methane emission factor is 0.2 lb/kgal.

Methodology

1 gallon of propane has a heating value of 91,500 Btu (use this to convert emission factors to an energy basis for propane (Source - AP-42 (Supplement B 10/96) page 1.5-1)

Potential Throughput (kgals/year) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1kgal per 1000 gallon x 1 gal per 0.1

Emission Factors are from AP-42 (Supplement B 10/96), Table 1.5-1 (SCC #1-02-010-02) or EPA FIRE 6.25 (SCC #1-0-

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

**Appendix A: Emission Calculations
Choice White Grease - Industrial Boilers**

Company Name: Tyson Fresh Meats, Inc.
Address City IN Zip: 2125 South County Road 125 West, Logansport, Indiana 46947
Permit Number: T 017-21598-00034
Reviewer: Edward A. Longenberger/Anne-Marie C. Hart
Date: July 24, 2007

B001

Heat Input Capacity
MMBtu/hr

50.00

	Pollutant					
	PM	PM10	SO2	NOx	VOC	CO
Emission Factor in lbs/MMBtu	0.038	0.038	0.000	0.154	0.000	0.014
Potential Emission in tons/yr	8.32	8.32	0.00	33.73	0.00	3.07

B002

Heat Input Capacity
MMBtu/hr

50.00

	Pollutant					
	PM	PM10	SO2	NOx	VOC	CO
Emission Factor in lbs/MMBtu	0.038	0.038	0.000	0.154	0.000	0.014
Potential Emission in tons/yr	8.32	8.32	0.00	33.73	0.00	3.07

Methodology

Emission Factors are from U.S. EPA "Assessment of Emissions Data and State Permit Information Available for Burning Biofuels", March 21, 2003.
Emission (tons/yr) = [Heat input rate (MMBtu/hr) x Emission Factor (lb/MMBtu)] * 8760 hr/yr / (2,000 lb/ton)

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

Company Name: Tyson Fresh Meats, Inc.
Address City IN Zip: 2125 South County Road 125 West, Logansport, Indiana 46947
Permit Number: T 017-21598-00034
Reviewer: Edward A. Longenberger/Anne-Marie C. Hart
Date: July 24, 2007

Heat Input Capacity Potential Throughput
MMBtu/hr MMCF/yr

114.26

1001

Emission Factor in lb/MMCF	Pollutant					
	PM*	PM10*	SO2	NOx	VOC	CO
	1.90	7.60	0.600	100 **see below	5.50	84.0
Potential Emission in tons/yr	0.951	3.80	0.300	50.05	2.75	42.04

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

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

Methodology

All emission factors are based on normal firing.

MMBtu = 1,000,000 Btu

MMCF = 1,000,000 Cubic Feet of Gas

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

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 (SUPPLEMENT D 3/98)

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

See page 10 for HAPs emissions calculations.

Appendix A: Emissions Calculations

Natural Gas Combustion Only

MM BTU/HR <100

Insignificant Combustion Units

HAPs Emissions

Company Name: Tyson Fresh Meats, Inc.

Address City IN Zip: 2125 South County Road 125 West, Logansport, Indiana 46947

Permit Number: T 017-21598-00034

Reviewer: Edward A. Longenberger/Anne-Marie C. Hart

Date: July 24, 2007

HAPs - Organics					
	Benzene	Dichlorobenzene	Formaldehyde	Hexane	Toluene
Emission Factor in lb/MMc	0.00210	0.00120	0.07500	1.80000	0.00340
Potential Emission in tons.	0.001051	0.000601	0.037534	0.900826	0.001702

HAPs - Metals						
	Lead	Cadmium	Chromium	Manganese	Nickel	Total
Emission Factor in lb/MMc	0.0005	0.0011	0.0014	0.0004	0.0021	
Potential Emission in tons.	0.00025	0.00055	0.00070	0.00019	0.00105	0.944

Methodology is the same as page 9.

The five highest organic and metal HAPs emission factors are provided above.

Additional HAPs emission factors are available in AP-42, Chapter 1.4.

Appendix A: Emission Calculations
LPG-Propane - Commercial Boilers - Less than 100 MMBtu/hr
Insignificant Combustion Units

Company Name: Tyson Fresh Meats, Inc.
Address City IN Zip: 2125 South County Road 125 West, Logansport, Indiana 46947
Permit Number: T 017-21598-00034
Reviewer: Edward A. Longenberger/Anne-Marie C. Hart
Date: July 24, 2007

Heat Input Capacity
MMBtu/hr

Potential Throughput
kgals/year

S = Sulfur Content = 15.00 gr/ccf

114.26

10938.99

Emission Factor in lb/kgal	Pollutant					
	PM*	PM10*	SO2 (0.10S)	NOx	VOC 0.5 **TOC value	CO 1.9
Potential Emission in tons/yr	2.19	2.19	8.20	76.57	2.73	10.39

*PM emission factor is filterable PM only. PM10 emission factor is assumed to be the same as PM based on a footnote in Table 1.5-1, therefore PM10 is filterable only as well.

**The VOC value given is TOC. The methane emission factor is 0.2 lb/kgal.

Methodology

1 gallon of propane has a heating value of 91,500 Btu (use this to convert emission factors to an energy basis for propane)

(Source - AP-42 (Supplement B 10/96) page 1.5-1)

Potential Throughput (kgals/year) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1kgal per 1000 gallon x 1 gal per 0.0915 MMBtu

Emission Factors are from AP-42 (Supplement B 10/96), Table 1.5-1 (SCC #1-02-010-02) or EPA FIRE 6.25 (SCC #1-02-010-02)

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

**Appendix A: Emission Calculations
Insignificant Activities**

Company Name: Tyson Fresh Meats, Inc.
Address City IN Zip: 2125 South County Road 125 West, Logansport, Indiana 46947
Permit Number: T 017-21598-00034
Reviewer: Edward A. Longenberger/Anne-Marie C. Hart
Date: July 24, 2007

**** unpaved roads ****

The following calculations determine the amount of emissions created by unpaved roads, based on 8,760 hours of use and AP-42, Ch 13.2.2 (12/2003).

12,167 miles per year

PM

Method 1a: $E_f = k * [(s/12)^{0.7}] * [(W/3)^b]$
 $= 7.41 \text{ lb/mile}$
 where $k = 4.9$ (particle size multiplier for PM)
 $s = 6.4$ mean % silt content of unpaved roads
 $b = 0.45$ Constant for PM-10 and PM-30 or TSP
 $W = 20$ tons average vehicle weight
 $M = 0.2$ surface material moisture content, % (default is 0.2 for dry conditions)

$$E = \frac{7.41 \text{ lb/mi} \times 12167 \text{ mi/yr}}{2000 \text{ lb/ton}} = 45.08 \text{ tons/yr}$$

Taking natural mitigation due to precipitation into consideration:

$$E_{ext} = E * [(365-p)/365] = 29.64 \text{ tons/yr}$$

where $p = 125$ days of rain greater than or equal to 0.01 inches (see Fig. 13.2.2-1)

PM-10

Method 1a: $E_f = k * [(s/12)^{0.9}] * [(W/3)^b]$
 $= 2.00 \text{ lb/mile}$
 where $k = 1.5$ (particle size multiplier for PM-10)
 $s = 6.4$ mean % silt content of unpaved roads
 $b = 0.45$ Constant for PM-10 and PM-30 or TSP
 $W = 20$ tons average vehicle weight
 $M = 0.2$ surface material moisture content, % (default is 0.2 for dry conditions)

$$E = \frac{2.00 \text{ lb/mi} \times 12167 \text{ mi/yr}}{2000 \text{ lb/ton}} = 12.17 \text{ tons/yr}$$

Taking natural mitigation due to precipitation into consideration:

$$E_{ext} = E * [(365-p)/365] = 8.00 \text{ tons/yr}$$

where $p = 125$ days of rain greater than or equal to 0.01 inches (see Fig. 13.2.2-1)