



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

We Protect Hoosiers and Our Environment.

100 N. Senate Avenue • Indianapolis, IN 46204

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

Michael R. Pence
Governor

Thomas W. Easterly
Commissioner

TO: Interested Parties / Applicant

DATE: June 17, 2013

RE: Tyson Fresh Meats, Inc. / 017-32407-00034

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 consideration 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 S County Road 125 W
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.

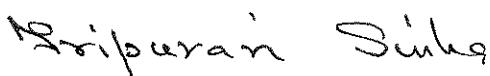
Operation Permit No.: 017-32407-00034	
Issued by:  Tripurari P. Sinha, Ph. D., Section Chief Permits Branch Office of Air Quality	Issuance Date: June 17, 2013 Expiration Date: June 17, 2018

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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(14)][326 IAC 2-7-1(22)]

The Permittee owns and operates a stationary A stationary meat packaging & rendering plant.

Source Address:	2125 S County Road 125 W, Logansport, Indiana 46947
General Source Phone Number:	605-235-3577
SIC Code:	2011 (Meat Packing Plants)
County Location:	Cass
Source Location Status:	Attainment for all criteria pollutants
Source Status:	Part 70 Operating Permit Program Minor Source, under PSD Minor Source, Section 112 of the Clean Air Act Not 1 of 28 Source Categories

A.2 Emission Units and Pollution Control Equipment Summary [326 IAC 2-7-4(c)(3)][326 IAC 2-7-5(14)]

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 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, constructed in 1998, exhausting to Stack C003.
 - (3) Three (3) Dupps high pressure pressors, constructed in 1998, with emissions controlled by a venturi/ packed bed scrubber, exhausting to Stack C003.
 - (4) Two (2) Sharples centrifuges, constructed in 1998, with emissions controlled by a venturi/packed bed scrubber, exhausting to Stack C003.
 - (5) Two (2) screw conveyors constructed in 1998, with emissions controlled by a venturi/packed bed scrubber, exhausting to Stack C003.
 - (6) One (1) precrusher metering bin constructed in 1998, with emissions controlled by a venturi/packed bed scrubber, exhausting to Stack C003.
 - (7) One (1) inedible crax bin constructed in 1998, with uncontrolled emissions exhausting inside the building.
 - (8) One (1) hammermill and a screen constructed in 1998 with uncontrolled emissions exhausting inside the building.
 - (9) Two (2) inedible crax silos, constructed in 1994 with uncontrolled emissions exhausting to the atmosphere.

- (10) One (1) truck loadout, constructed in 1998 with uncontrolled emissions.
- (11) One (1) rail loadout, constructed in 1998 with uncontrolled emissions.
- (b) One (1) natural gas-fired boiler, identified as B001, using propane, distillate or No. 2 fuel oil 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.
- (c) One (1) natural gas-fired boiler, identified as 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.

A.3 Specifically Regulated Insignificant Activities
[326 IAC 2-7-1(21)][326 IAC 2-7-4(c)][326 IAC 2-7-5(14)]

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 constructed in 1998.
- (b) Blood Drying System with a maximum finished product rate of 2,625 pounds per hour constructed in 1998 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) Flootation System including a melt tank, an Sharples centrifuge, a Sweeco screener, and a sludge tank identified as IR002 constructed in 1998 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 constructed in 1998 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) 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).
- (f) 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).
- (g) 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).
- (h) A spinal vacuum pump.
- (i) A vacuum pump for steam sanitizing.
- (j) A gasoline fuel transfer and dispensing operation handling less than or equal to 1,300

gallons per day.

- (k) 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.
- (l) One (1) five hundred (500) gallon storage tank storing hydraulic oil.
- (m) Degreasing operations that do not exceed 145 gallons per 12 months, except if subject to 326 IAC 20-6.
- (n) The following equipment related to manufacturing activities not resulting in the emission of HAPs: brazing equipment, cutting torches, soldering equipment, welding equipment.
- (o) Operations using aqueous solutions containing less than 1% by weight of VOCs excluding HAPs.
- (p) Water based adhesives that are less than or equal to 5% by volume of VOCs excluding HAPs.
- (q) Forced and induced draft cooling tower system not regulated under a NESHAP.
- (r) Replacement or repair of electrostatic precipitators, bags in baghouses and filters in other air filtration equipment.
- (s) Heat exchanger cleaning and repair.
- (t) Paved and unpaved roads and parking lots with public access [326 IAC 6-4].
- (u) 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.
- (v) 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.
- (w) Blowdown for any of the following: sight glass; boiler; compressors; pumps; and cooling tower.
- (x) On-site fire and emergency response training approved by the department.

A.4 Insignificant Activities

- (a) Air make up units listed below (fired by natural gas or propane)

Location	ID	Heat input Rate (MMBtu/hr)
Cut Floor	MAU-C-1	9.00
Cut Floor	MAU-C-2	9.00
Edible Rendering	MAU-ER-1	2.40
Kill Floor	MAU-K-1	7.68
Kill Floor	MAU-K-2	7.68
Kill Floor	MAU-K-3	7.68
Kill Floor	MAU-K-4	7.92
Skinning	MAU-K-5	3.84
Stun & Bleed	MAU-K-6	8.16
Crowd Pen	MAU-K-7	0.46
Chits/ Casings	MAU-CH-1	3.00
Hides	MAU-H-1	3.84
Maintenance	MAU-M-1	3.48
Engine Room	MAU-E-1	2.40
Cafeteria	HVA-7	0.50
Classroom/Meeting	HVA-8	0.20
Support QC	HVA-9	0.07
Welfare Office Lab	HVA-11	0.23
New Womens Locker Room	HVA-23	0.19
New Mens Locker Room	HVA-24	0.40
Cafeteria	HVA-25	0.50
Inedible Rendering	MAU-IR-1	3.73
Inedible Rendering	MAU-IR-2	2.99
Womens Locker Room	HVA-15	0.50
Mens Locker Room	HVA-12	0.40
Mens Locker Room	HVA-13	0.95
Kitchen	HVA-16	0.70
USDA	HVA-3	0.16

- (b) Anaerobic Wastewater Lagoons

A.5 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, 017-32407-00034, 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 13-15-5-3. Subsequent revisions, modifications, or amendments of this permit do not affect the expiration date of this permit.
- (b) If IDEM, OAQ, upon receiving a timely and complete renewal permit application, fails to issue or deny the permit renewal prior to the expiration date of this permit, this existing permit shall not expire and all terms and conditions shall continue in effect, including any permit shield provided in 326 IAC 2-7-15, until the renewal permit has been issued or denied.

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

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

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

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

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

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

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

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

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

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

- (a) The Permittee shall furnish to IDEM, OAQ, within a reasonable time, any information that IDEM, OAQ may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. 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) A certification required by this permit meets the requirements of 326 IAC 2-7-6(1) if:

- (1) it contains a certification by a "responsible official" as defined by 326 IAC 2-7-1(35), and
- (2) the certification states that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.
- (b) The Permittee may use the attached Certification Form, or its equivalent with each submittal requiring certification. One (1) certification may cover multiple forms in one (1) submittal.
- (c) A "responsible official" is defined at 326 IAC 2-7-1(35).

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

and

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

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

The submittal by the Permittee does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(35).

B.10 Preventive Maintenance Plan [326 IAC 2-7-5(12)][326 IAC 1-6-3]

- (a) A Preventive Maintenance Plan meets the requirements of 326 IAC 1-6-3 if it includes, at a minimum:

- (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.

The Permittee shall implement the PMPs.

- (b) If required by specific condition(s) in Section D of this permit where no PMP was previously required, the Permittee shall prepare and maintain Preventive Maintenance Plans (PMPs) no later than ninety (90) days after issuance of this permit or ninety (90) days after initial start-up, whichever is later, including the following information on each facility:

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

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

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

The PMP extension notification does not require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(35).

The Permittee shall implement the PMPs.

- (c) 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. The PMPs and their submittal do not require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(35).

- (d) To the extent the Permittee is required by 40 CFR Part 60/63 to have an Operation Maintenance, and Monitoring (OMM) Plan for a unit, such Plan is deemed to satisfy the PMP requirements of 326 IAC 1-6-3 for that unit.

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

- (a) An emergency, as defined in 326 IAC 2-7-1(12), is not an affirmative defense for an action brought for noncompliance with a federal or state health-based emission limitation.

- (b) An emergency, as defined in 326 IAC 2-7-1(12), constitutes an affirmative defense to an action brought for noncompliance with a technology-based emission limitation if the affirmative defense of an emergency is demonstrated through properly signed, contemporaneous operating logs or other relevant evidence that describe the following:

- (1) An emergency occurred and the Permittee can, to the extent possible, identify the causes of the emergency;
- (2) The permitted facility was at the time being properly operated;
- (3) During the period of an emergency, the Permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards or other requirements in this permit;
- (4) For each emergency lasting one (1) hour or more, the Permittee notified IDEM, OAQ, within four (4) daytime business hours after the beginning of the emergency, or after the emergency was discovered or reasonably should have been discovered;

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

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

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

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

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

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

The notification which shall be submitted by the Permittee does not require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(35).

- (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)(8) 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.

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 017-32407-00034 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 Permit Modification, Reopening, Revocation and Reissuance, or Termination [326 IAC 2-7-5(6)(C)][326 IAC 2-7-8(a)][326 IAC 2-7-9]

- (a) This permit may be modified, reopened, revoked and reissued, or terminated for cause. The filing of a request by the Permittee for a Part 70 Operating Permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any condition of this permit.

[326 IAC 2-7-5(6)(C)] The notification by the Permittee does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(35).

- (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.16 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 a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(35).

Request for renewal shall be submitted to:

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

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

subsequent to the completeness determination, the Permittee fails to submit by the deadline specified, pursuant to 326 IAC 2-7-4(a)(2)(D), in writing by IDEM, OAQ any additional information identified as being needed to process the application.

B.17 Permit Amendment or Modification [326 IAC 2-7-11][326 IAC 2-7-12]

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

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

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

Any such application does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(35).

- (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.18 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 or notice 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.19 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) or (c) without a prior permit revision, if each of the following conditions is met:

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

Indiana Department of Environmental Management

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

and

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

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

- (5) The Permittee maintains records on-site, on a rolling five (5) year basis, which document all such changes and emission trades that are subject to 326 IAC 2-7-20(b)(1) and (c)(1). 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) and (c)(1).

- (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 a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(35).

- (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.20 Source Modification Requirement [326 IAC 2-7-10.5]

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

B.21 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.22 Transfer of Ownership or Operational Control [326 IAC 2-7-11]

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

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

Any such application does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(35).

- (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.23 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.24 Credible Evidence [326 IAC 2-7-5(3)][326 IAC 2-7-6][62 FR 8314] [326 IAC 1-1-6]

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

SECTION C SOURCE OPERATION CONDITIONS

Entire Source

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

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

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

C.2 Opacity [326 IAC 5-1]

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

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

C.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 except as provided in 326 IAC 4-2 or in this permit. The Permittee shall not operate a refuse incinerator or refuse burning equipment except as provided in 326 IAC 9-1-2 or in this permit.

C.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 260 linear feet on pipes or 160 square feet on other facility components, or at least thirty-five (35) cubic feet on all facility components, then the notification requirements of

326 IAC 14-10-3 are mandatory. All demolition projects require notification whether or not asbestos is present.

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

All required notifications shall be submitted to:

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

The notice shall include a signed certification from the owner or operator that the information provided in this notification is correct and that only Indiana licensed workers and project supervisors will be used to implement the asbestos removal project. The notifications do not require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(35).

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

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

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

- (a) For performance testing required by this permit, a test protocol, except as provided elsewhere in this permit, shall be submitted to:

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

no later than thirty-five (35) days prior to the intended test date. The protocol submitted by the Permittee does not require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(35).

- (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 a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(35).
- (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)][40 CFR 64][326 IAC 3-8]

- (a) Unless otherwise specified in this permit, for all monitoring requirements not already legally required, the Permittee shall be allowed up to ninety (90) days from the date of permit issuance or of initial start-up, whichever is later, to begin such monitoring. If due to circumstances beyond the Permittee's control, any monitoring equipment required by this permit cannot be installed and operated no later than ninety (90) days after permit issuance or the date of initial startup, whichever is later, the Permittee may extend the compliance schedule related to the equipment for an additional ninety (90) days provided the Permittee notifies:

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

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

The notification which shall be submitted by the Permittee does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(35).

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.

- (b) For monitoring required by CAM, at all times, the Permittee shall maintain the monitoring, including but not limited to, maintaining necessary parts for routine repairs of the monitoring equipment.
- (c) For monitoring required by CAM, except for, as applicable, monitoring malfunctions, associated repairs, and required quality assurance or control activities (including, as applicable, calibration checks and required zero and span adjustments), the Permittee shall conduct all monitoring in continuous operation (or shall collect data at all required intervals) at all times that the pollutant-specific emissions unit is operating. Data recorded during monitoring malfunctions, associated repairs, and required quality assurance or control activities shall not be used for purposes of this part, including data averages and calculations, or fulfilling a minimum data availability requirement, if applicable. The owner or operator shall use all the data collected during all other periods in assessing the operation of the control device and associated control system. A monitoring malfunction is any sudden, infrequent, not reasonably preventable failure of the monitoring to provide valid data. Monitoring failures that are caused in part by poor maintenance or careless operation are not malfunctions.

C.11 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.12 Emergency Reduction Plans [326 IAC 1-5-2] [326 IAC 1-5-3]

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

- (a) The Permittee shall maintain the most recently submitted written emergency reduction plans (ERPs) consistent with safe operating procedures.
- (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.13 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.14 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 submit a description of its response actions to IDEM, OAQ, no later than seventy-five (75) days after the date of the test.

- (b) A retest to demonstrate compliance shall be performed no later than one hundred eighty (180) days after the date of the test. Should the Permittee demonstrate to IDEM, OAQ that retesting in one hundred eighty (180) days is not practicable, IDEM, OAQ may extend the retesting deadline
- (c) IDEM, OAQ reserves the authority to take any actions allowed under law in response to noncompliant stack tests.

The response action documents submitted pursuant to this condition do require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(35).

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

C.15 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]

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 a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(35).

C.16 General Record Keeping Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-6]

- (a) Records of all required monitoring data, reports and support information required by this permit shall be retained for a period of at least five (5) years from the date of monitoring sample, measurement, report, or application. Support information includes the following:
 - (AA) All calibration and maintenance records.
 - (BB) All original strip chart recordings for continuous monitoring instrumentation.
 - (CC) Copies of all reports required by the Part 70 permit.Records of required monitoring information include the following:
 - (AA) The date, place, as defined in this permit, and time of sampling or measurements.
 - (BB) The dates analyses were performed.
 - (CC) The company or entity that performed the analyses.
 - (DD) The analytical techniques or methods used.
 - (EE) The results of such analyses.

(FF) The operating conditions as existing at the time of sampling or measurement.

These records shall be physically present or electronically accessible at the source location for a minimum of three (3) years. The records may be stored elsewhere for the remaining two (2) years as long as they are available upon request. If the Commissioner makes a request for records to the Permittee, the Permittee shall furnish the records to the Commissioner within a reasonable time.

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

C.17 General Reporting Requirements [326 IAC 2-7-5(3)(C)] [326 IAC 2-1.1-11]

- (a) The Permittee shall submit the attached Quarterly Deviation and Compliance Monitoring Report or its equivalent. Proper notice submittal under Section B –Emergency Provisions satisfies the reporting requirements of this paragraph. Any deviation from permit requirements, the date(s) of each deviation, the cause of the deviation, and the response steps taken must be reported except that 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. This report shall be submitted not later than thirty (30) days after the end of the reporting period. The Quarterly Deviation and Compliance Monitoring Report shall include a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(35). A deviation is an exceedance of a permit limitation or a failure to comply with a requirement of the permit.
- (b) The address for report submittal is:
- Indiana Department of Environmental Management
Compliance and Enforcement Branch, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251
- (c) Unless otherwise specified in this permit, any notice, report, or other submission required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ on or before the date it is due.
- (d) 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.18 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 applicable standards for recycling and emissions reduction.

SECTION D.1 FACILITY OPERATION CONDITIONS

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

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

- (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 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, constructed in 1998, exhausting to Stack C003.
 - (3) Three (3) Dupps high pressure pressors, constructed in 1998, with emissions controlled by a venturi/ packed bed scrubber, exhausting to Stack C003.
 - (4) Two (2) Sharples centrifuges, constructed in 1998, with emissions controlled by a venturi/packed bed scrubber, exhausting to Stack C003.
 - (5) Two (2) screw conveyors constructed in 1998, with emissions controlled by a venturi/packed bed scrubber, exhausting to Stack C003.
 - (6) One (1) precrusher metering bin constructed in 1998, with emissions controlled by a venturi/packed bed scrubber, exhausting to Stack C003.
 - (7) One (1) inedible crax bin constructed in 1998, with uncontrolled emissions exhausting inside the building.
 - (8) One (1) hammermill and a screen constructed in 1998 with uncontrolled emissions exhausting inside the building.
 - (9) Two (2) inedible crax silos, constructed in 1994 with uncontrolled emissions exhausting to the atmosphere.

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
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 and Screen	6.98	15.07
Screw Conveyor	6.98	15.07
Precrusher Metering Bin	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 and control VOC emissions at all times that the Dupps 320U wet cooker 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 Boilers

- (a) One (1) natural gas-fired boiler, identified as B001, using propane, distillate or No. 2 fuel oil 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.
- (b) One (1) natural gas-fired boiler, identified as 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.

(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 6-2-3]

Pursuant to 326 IAC 6-2-3 (Particulate Emission Limitations for Sources of Indirect Heating: Emission limitations for facilities specified in 326 IAC 6-2-1(d)), the particulate emissions from each of the two (2) boilers (B001 and B002) shall not exceed 0.359 pounds per million British thermal units heat input (lb/MMBtu).

D.2.2 SO₂ Sulfur Dioxide Emission Limitations [326 IAC 7-1.1] [326 IAC 2-7-10.5]

In order to render the requirements of 326 IAC 7-1.1 (Sulfur Dioxide Emission Limitations) and 326 IAC 2-7-10.5(f) (Significant Source Modification) not applicable, the Permittee shall comply with the following:

- (a) The distillate fuel usage to boiler B001 shall not exceed 600,281 gallons per twelve (12) consecutive month period, with compliance determined at the end of each month.
- (b) The sulfur content in fuel shall not exceed 0.5 per cent by weight

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

D.2.3 Record Keeping Requirements

To document compliance with Condition D.2.2, the Permittee shall maintain records of the amount of distillate fuel used in boiler B001 each month. Records necessary to demonstrate compliance shall be available within 30 days of the end of each compliance period.

D.2.4 Reporting Requirements

To document compliance with Condition D.2.2 the amount of distillate oil burned in Boiler B001 shall be reported 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 three (3) month period being reported. B001 boiler certification does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

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) Flootation 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 4.91 pounds per hour, 13.28 pounds per hour, 6.35 pounds per hour.

SECTION E.1

FACILITY OPERATION CONDITIONS

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

- (a) One (1) natural gas-fired boiler, identified as B001, using propane, distillate or No. 2 fuel oil 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.
- (b) One (1) natural gas-fired boiler, identified as 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.

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

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

E.1.1 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

E.1.2 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:

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE AND ENFORCEMENT BRANCH
PART 70 OPERATING PERMIT
CERTIFICATION**

Source Name: Tyson Fresh Meats, Inc.
Source Address: 2125 S County Road 125 W, Logansport, Indiana 46947
Part 70 Permit No.: 017-32407-00034

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 AND ENFORCEMENT BRANCH
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251
Phone: (317) 233-0178
Fax: (317) 233-6865

PART 70 OPERATING PERMIT
EMERGENCY OCCURRENCE REPORT

Source Name: Tyson Fresh Meats, Inc.
Source Address: 2125 S County Road 125 W, Logansport, Indiana 46947
Part 70 Permit No.: 017-32407-00034

This form consists of 2 pages

Page 1 of 2

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

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

Facility/Equipment/Operation:

Control Equipment:

Permit Condition or Operation Limitation in Permit:

Description of the Emergency:

Describe the cause of the Emergency:

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

Page 2 of 2

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

Form Completed by: _____

Title / Position: _____

Date: _____

Phone: _____

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

Source Name: Tyson Fresh Meats, Inc.
Source Address: 2125 S County Road 125 W, Logansport, Indiana 46947
Part 70 Permit No.: 017-32407-00034

Months: _____ to _____ Year: _____

Page 1 of 2

This report shall be submitted quarterly based on a calendar year. Proper notice submittal under Section B –Emergency Provisions satisfies the reporting requirements of paragraph (a) of Section C- General Reporting. Any deviation from the requirements of this permit, 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".

☐ NO DEVIATIONS OCCURRED THIS REPORTING PERIOD.

☐ 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: _____

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE AND ENFORCEMENT BRANCH
Distillate Fuel Usage
Part 70 Quarterly Report

Source Name: Tyson Fresh Meats, Inc.
Source Address: 2125 S County Road 125 W, Logansport, Indiana 46947
Part 70 Permit No.: T 017-32407-00034
Facility: Boiler B002
Parameter: Distillate Fuel Usage
Limit: Shall not exceed 600,281 gallons per twelve (12) consecutive month period.

MONTHS: _____ to _____ YEAR:

Month	Distillate Fuel Usage (gallons)	Distillate Fuel Usage (gallons)	Distillate Fuel Usage (gallons)
	This Month	Previous 11 Months	12 Month Total
Month 1			
Month 2			
Month 3			

☐ No deviation occurred in this six-month period.

☐ Deviation/s occurred in this six-month period.
Deviation has been reported on:

Attach a signed certification to complete this report.

**Attachment A, NSPS Subpart Dc
Tyson Fresh Meats, Inc.
2125 S County Road 125 W
Logansport, Indiana 46947**

Title 40: Protection of Environment

PART 60—STANDARDS OF PERFORMANCE FOR NEW STATIONARY SOURCES

Subpart Dc—Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units

§ 60.40c Applicability and delegation of authority.

(a) Except as provided in paragraphs (d), (e), (f), and (g) 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.

(e) Heat recovery steam generators that are associated with combined cycle gas turbines and meet the applicability requirements of subpart KKKK of this part are not subject to this subpart. This subpart will continue to apply to all other heat recovery steam generators that are capable of combusting more than or equal to 2.9 MW (10 MMBtu/hr) heat input of fossil fuel but less than or equal to 29 MW (100 MMBtu/hr) heat input of fossil fuel. If the heat recovery steam generator is subject to this subpart, only emissions resulting from combustion of fuels in the steam generating unit are subject to this subpart. (The gas turbine emissions are subject to subpart GG or KKKK, as applicable, of this part).

(f) Any facility covered by subpart AAAA of this part is not subject by this subpart.

(g) Any facility covered by an EPA approved State or Federal section 111(d)/129 plan implementing subpart BBBB of this part is not subject by this subpart.

[72 FR 32759, June 13, 2007, as amended at 74 FR 5090, Jan. 28, 2009]

§ 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 not meeting the definition of natural gas, 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 hydrosulfurization 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) or diesel fuel oil numbers 1 or 2, as defined by the American Society for Testing and Materials in ASTM D975 (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); or
- (3) A mixture of hydrocarbons that maintains a gaseous state at ISO conditions. Additionally, natural gas must either be composed of at least 70 percent methane by volume or have a gross calorific value between 34 and 43 megajoules (MJ) per dry standard cubic meter (910 and 1,150 Btu per dry standard cubic foot).

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 heats any 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.

[72 FR 32759, June 13, 2007, as amended at 74 FR 5090, Jan. 28, 2009]

§ 60.42c Standard for sulfur dioxide (SO₂).

(a) Except as provided in paragraphs (b), (c), and (e) of this section, on and after the date on which the performance test is completed or required to be completed under §60.8, whichever date comes first, the owner or operator of an affected facility that combusts only coal shall neither: cause to be discharged into the atmosphere from the affected facility any gases that contain SO₂ in excess of 87 ng/J (0.20 lb/MMBtu) heat input or 10 percent (0.10) of the potential SO₂ emission rate (90 percent reduction), nor cause to be discharged into the atmosphere from the affected facility any gases that contain SO₂ in excess of 520 ng/J (1.2 lb/MMBtu) heat input. If coal is combusted with other fuels, the affected facility shall neither: cause to be discharged into the atmosphere from the affected facility any gases that contain SO₂ in excess of 87 ng/J (0.20 lb/MMBtu) heat input or 10 percent (0.10) of the potential SO₂ emission rate (90 percent reduction), nor cause to be discharged into the atmosphere from the affected facility any gases that contain SO₂ in excess of the emission limit is determined pursuant to paragraph (e)(2) of this section.

(b) Except as provided in paragraphs (c) and (e) of this section, on and after the date on which the performance test is completed or required to be completed under §60.8, whichever date comes first, the owner or operator of an affected facility that:

(1) Combusts only coal refuse alone in a fluidized bed combustion steam generating unit shall neither:

(i) Cause to be discharged into the atmosphere from that affected facility any gases that contain SO₂ in excess of 87 ng/J (0.20 lb/MMBtu) heat input or 20 percent (0.20) of the potential SO₂ emission rate (80 percent reduction); nor

(ii) Cause to be discharged into the atmosphere from that affected facility any gases that contain SO₂ in excess of SO₂ in excess of 520 ng/J (1.2 lb/MMBtu) heat input. If coal is fired with coal refuse, the affected facility subject to paragraph (a) of this section. If oil or any other fuel (except coal) is fired with coal refuse, the affected facility is subject to the 87 ng/J (0.20 lb/MMBtu) heat input SO₂ emissions limit or the 90 percent SO₂ reduction requirement specified in paragraph (a) of this section and the emission limit is determined pursuant to paragraph (e)(2) of this section.

(2) Combusts only coal and that uses an emerging technology for the control of SO₂ emissions shall neither:

(i) Cause to be discharged into the atmosphere from that affected facility any gases that contain SO₂ in excess of 50 percent (0.50) of the potential SO₂ emission rate (50 percent reduction); nor

(ii) Cause to be discharged into the atmosphere from that affected facility any gases that contain SO₂ in excess of 260 ng/J (0.60 lb/MMBtu) heat input. If coal is combusted with other fuels, the affected facility is subject to the 50 percent SO₂ reduction requirement specified in this paragraph and the emission limit determined pursuant to paragraph (e)(2) of this section.

(c) On and after the date on which the initial performance test is completed or required to be completed under §60.8, whichever date comes first, no owner or operator of an affected facility that combusts coal, alone or in combination with any other fuel, and is listed in paragraphs (c)(1), (2), (3), or (4) of this section shall cause to be discharged into the atmosphere from that affected facility any gases that contain SO₂ in excess of the emission limit determined pursuant to paragraph (e)(2) of this section. Percent reduction requirements are not applicable to affected facilities under paragraphs (c)(1), (2), (3), or (4).

(1) Affected facilities that have a heat input capacity of 22 MW (75 MMBtu/hr) or less.

(2) Affected facilities that have an annual capacity for coal of 55 percent (0.55) or less and are subject to a federally enforceable requirement limiting operation of the affected facility to an annual capacity factor for coal of 55 percent (0.55) or less.

(3) Affected facilities located in a noncontinental area.

(4) Affected facilities that combust coal in a duct burner as part of a combined cycle system where 30 percent (0.30) or less of the heat entering the steam generating unit is from combustion of coal in the duct burner and 70 percent (0.70) or more of the heat entering the steam generating unit is from exhaust gases entering the duct burner.

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

(e) On and after the date on which the initial performance test is completed or required to be completed under §60.8, whichever date comes first, no owner or operator of an affected facility that combusts coal, oil, or coal and oil with any other fuel shall cause to be discharged into the atmosphere from that affected facility any gases that contain SO₂ in excess of the following:

(1) The percent of potential SO₂ emission rate or numerical SO₂ emission rate required under paragraph (a) or (b)(2) of this section, as applicable, for any affected facility that

(i) Combusts coal in combination with any other fuel;

(ii) Has a heat input capacity greater than 22 MW (75 MMBtu/hr); and

(iii) Has an annual capacity factor for coal greater than 55 percent (0.55); and

(2) The emission limit determined according to the following formula for any affected facility that combusts coal, oil, or coal and oil with any other fuel:

$$E_s = \frac{(K_a H_a + K_b H_b + K_c H_c)}{(H_a + H_b + H_c)}$$

Where:

E_s= SO₂ emission limit, expressed in ng/J or lb/MMBtu heat input;

K_a= 520 ng/J (1.2 lb/MMBtu);

K_b= 260 ng/J (0.60 lb/MMBtu);

K_c= 215 ng/J (0.50 lb/MMBtu);

H_a= Heat input from the combustion of coal, except coal combusted in an affected facility subject to paragraph (b)(2) of this section, in Joules (J) [MMBtu];

H_b= Heat input from the combustion of coal in an affected facility subject to paragraph (b)(2) of this section, in J (MMBtu); and

H_c= Heat input from the combustion of oil, in J (MMBtu).

(f) Reduction in the potential SO₂ emission rate through fuel pretreatment is not credited toward the percent reduction requirement under paragraph (b)(2) of this section unless:

- (1) Fuel pretreatment results in a 50 percent (0.50) or greater reduction in the potential SO₂ emission rate; and
- (2) Emissions from the pretreated fuel (without either combustion or post-combustion SO₂ control) are equal to or less than the emission limits specified under paragraph (b)(2) of this section.
- (g) Except as provided in paragraph (h) of this section, compliance with the percent reduction requirements, fuel oil sulfur limits, and emission limits of this section shall be determined on a 30-day rolling average basis.
- (h) For affected facilities listed under paragraphs (h)(1), (2), or (3) of this section, compliance with the emission limits or fuel oil sulfur limits under this section may be determined based on a certification from the fuel supplier, as described under §60.48c(f), as applicable.
 - (1) Distillate oil-fired affected facilities with heat input capacities between 2.9 and 29 MW (10 and 100 MMBtu/hr).
 - (2) Residual oil-fired affected facilities with heat input capacities between 2.9 and 8.7 MW (10 and 30 MMBtu/hr).
 - (3) Coal-fired facilities with heat input capacities between 2.9 and 8.7 MW (10 and 30 MMBtu/hr).
- (i) The SO₂ emission limits, fuel oil sulfur limits, and percent reduction requirements under this section apply at all times, including periods of startup, shutdown, and malfunction.
- (j) For affected facilities located in noncontinental areas and affected facilities complying with the percent reduction standard, only the heat input supplied to the affected facility from the combustion of coal and oil is counted under this section. No credit is provided for the heat input to the affected facility from wood or other fuels or for heat derived from exhaust gases from other sources, such as stationary gas turbines, internal combustion engines, and kilns.

[72 FR 32759, June 13, 2007, as amended at 74 FR 5090, Jan. 28, 2009]

§ 60.43c Standard for particulate matter (PM).

- (a) On and after the date on which the initial performance test is completed or required to be completed under §60.8, whichever date comes first, no owner or operator of an affected facility that commenced construction, reconstruction, or modification on or before February 28, 2005, that combusts coal or combusts mixtures of coal with other fuels and has a heat input capacity of 8.7 MW (30 MMBtu/hr) or greater, shall cause to be discharged into the atmosphere from that affected facility any gases that contain PM in excess of the following emission limits:
- (1) 22 ng/J (0.051 lb/MMBtu) heat input if the affected facility combusts only coal, or combusts coal with other fuels and has an annual capacity factor for the other fuels of 10 percent (0.10) or less.
 - (2) 43 ng/J (0.10 lb/MMBtu) heat input if the affected facility combusts coal with other fuels, has an annual capacity factor for the other fuels greater than 10 percent (0.10), and is subject to a federally enforceable requirement limiting operation of the affected facility to an annual capacity factor greater than 10 percent (0.10) for fuels other than coal.
- (b) On and after the date on which the initial performance test is completed or required to be completed under §60.8, whichever date comes first, no owner or operator of an affected facility that commenced construction, reconstruction, or modification on or before February 28, 2005, that combusts wood or combusts mixtures of wood with other fuels (except coal) and has a heat input capacity of 8.7 MW (30 MMBtu/hr) or greater, shall cause to be discharged into the atmosphere from that affected facility any gases that contain PM in excess of the following emissions limits:
- (1) 43 ng/J (0.10 lb/MMBtu) heat input if the affected facility has an annual capacity factor for wood greater than 30 percent (0.30); or
 - (2) 130 ng/J (0.30 lb/MMBtu) heat input if the affected facility has an annual capacity factor for wood of 30 percent (0.30) or less and is subject to a federally enforceable requirement limiting operation of the affected facility to an annual capacity factor for wood of 30 percent (0.30) or less.

(c) On and after the date on which the initial performance test is completed or required to be completed under §60.8, whichever date comes first, no owner or operator of an affected facility that can combust coal, wood, or oil and has a heat input capacity of 8.7 MW (30 MMBtu/hr) or greater shall cause to be discharged into the atmosphere from that affected facility any gases that exhibit greater than 20 percent opacity (6-minute average), except for one 6-minute period per hour of not more than 27 percent opacity. Owners and operators of an affected facility that elect to install, calibrate, maintain, and operate a continuous emissions monitoring system (CEMS) for measuring PM emissions according to the requirements of this subpart and are subject to a federally enforceable PM limit of 0.030 lb/MMBtu or less are exempt from the opacity standard specified in this paragraph.

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

(e)(1) On and after the date on which the initial performance test is completed or is required to be completed under §60.8, whichever date comes first, no owner or operator of an affected facility that commences construction, reconstruction, or modification after February 28, 2005, and that combusts coal, oil, wood, a mixture of these fuels, or a mixture of these fuels with any other fuels and has a heat input capacity of 8.7 MW (30 MMBtu/hr) or greater shall cause to be discharged into the atmosphere from that affected facility any gases that contain PM in excess of 13 ng/J (0.030 lb/MMBtu) heat input, except as provided in paragraphs (e)(2), (e)(3), and (e)(4) of this section.

(2) As an alternative to meeting the requirements of paragraph (e)(1) of this section, the owner or operator of an affected facility for which modification commenced after February 28, 2005, may elect to meet the requirements of this paragraph. On and after the date on which the initial performance test is completed or required to be completed under §60.8, whichever date comes first, no owner or operator of an affected facility that commences modification after February 28, 2005 shall cause to be discharged into the atmosphere from that affected facility any gases that contain PM in excess of both:

(i) 22 ng/J (0.051 lb/MMBtu) heat input derived from the combustion of coal, oil, wood, a mixture of these fuels, or a mixture of these fuels with any other fuels; and

(ii) 0.2 percent of the combustion concentration (99.8 percent reduction) when combusting coal, oil, wood, a mixture of these fuels, or a mixture of these fuels with any other fuels.

(3) On and after the date on which the initial performance test is completed or is required to be completed under §60.8, whichever date comes first, no owner or operator of an affected facility that commences modification after February 28, 2005, and that combusts over 30 percent wood (by heat input) on an annual basis and has a heat input capacity of 8.7 MW (30 MMBtu/hr) or greater shall cause to be discharged into the atmosphere from that affected facility any gases that contain PM in excess of 43 ng/J (0.10 lb/MMBtu) heat input.

(4) On and after the date on which the initial performance test is completed or is required to be completed under §60.8, whichever date comes first, an owner or operator of an affected facility that commences construction, reconstruction, or modification after February 28, 2005, and that combusts only oil that contains no more than 0.50 weight percent sulfur or a mixture of 0.50 weight percent sulfur oil with other fuels not subject to a PM standard under §60.43c and not using a post-combustion technology (except a wet scrubber) to reduce PM or SO₂ emissions is not subject to the PM limit in this section.

[72 FR 32759, June 13, 2007, as amended at 74 FR 5091, Jan. 28, 2009]

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

(a) Except as provided in paragraphs (g) and (h) of this section and §60.8(b), performance tests required under §60.8 shall be conducted following the procedures specified in paragraphs (b), (c), (d), (e), and (f) of this section, as applicable. Section 60.8(f) does not apply to this section. The 30-day notice required in §60.8(d) applies only to the initial performance test unless otherwise specified by the Administrator.

(b) The initial performance test required under §60.8 shall be conducted over 30 consecutive operating days of the steam generating unit. Compliance with the percent reduction requirements and SO₂ emission limits under §60.42c

shall be determined using a 30-day average. The first operating day included in the initial performance test shall be scheduled within 30 days after achieving the maximum production rate at which the affected facility will be operated, but not later than 180 days after the initial startup of the facility. The steam generating unit load during the 30-day period does not have to be the maximum design heat input capacity, but must be representative of future operating conditions.

(c) After the initial performance test required under paragraph (b) of this section and §60.8, compliance with the percent reduction requirements and SO₂ emission limits under §60.42c is based on the average percent reduction and the average SO₂ emission rates for 30 consecutive steam generating unit operating days. A separate performance test is completed at the end of each steam generating unit operating day, and a new 30-day average percent reduction and SO₂ emission rate are calculated to show compliance with the standard.

(d) If only coal, only oil, or a mixture of coal and oil is combusted in an affected facility, the procedures in Method 19 of appendix A of this part are used to determine the hourly SO₂ emission rate (E_{ho}) and the 30-day average SO₂ emission rate (E_{ao}). The hourly averages used to compute the 30-day averages are obtained from the CEMS. Method 19 of appendix A of this part shall be used to calculate E_{ao} when using daily fuel sampling or Method 6B of appendix A of this part.

(e) If coal, oil, or coal and oil are combusted with other fuels:

(1) An adjusted E_{ho} (E_{ho0}) is used in Equation 19–19 of Method 19 of appendix A of this part to compute the adjusted E_{ao} (E_{ao0}). The E_{ho0} is computed using the following formula:

$$E_{ho0} = \frac{E_{ho} - E_w(1 - X_k)}{X_k}$$

Where:

E_{ho0} = Adjusted E_{ho} , ng/J (lb/MMBtu);

E_{ho} = Hourly SO₂ emission rate, ng/J (lb/MMBtu);

E_w = SO₂ concentration in fuels other than coal and oil combusted in the affected facility, as determined by fuel sampling and analysis procedures in Method 9 of appendix A of this part, ng/J (lb/MMBtu). The value E_w for each fuel lot is used for each hourly average during the time that the lot is being combusted. The owner or operator does not have to measure E_w if the owner or operator elects to assume $E_w = 0$.

X_k = Fraction of the total heat input from fuel combustion derived from coal and oil, as determined by applicable procedures in Method 19 of appendix A of this part.

(2) The owner or operator of an affected facility that qualifies under the provisions of §60.42c(c) or (d) (where percent reduction is not required) does not have to measure the parameters E_w or X_k if the owner or operator of the affected facility elects to measure emission rates of the coal or oil using the fuel sampling and analysis procedures under Method 19 of appendix A of this part.

(f) Affected facilities subject to the percent reduction requirements under §60.42c(a) or (b) shall determine compliance with the SO₂ emission limits under §60.42c pursuant to paragraphs (d) or (e) of this section, and shall determine compliance with the percent reduction requirements using the following procedures:

(1) If only coal is combusted, the percent of potential SO₂ emission rate is computed using the following formula:

$$\%P_r = 100 \left(1 - \frac{\%R_z}{100} \right) \left(1 - \frac{\%R_f}{100} \right)$$

Where:

%P_s= Potential SO₂emission rate, in percent;

%R_g= SO₂removal efficiency of the control device as determined by Method 19 of appendix A of this part, in percent; and

%R_f= SO₂removal efficiency of fuel pretreatment as determined by Method 19 of appendix A of this part, in percent.

(2) If coal, oil, or coal and oil are combusted with other fuels, the same procedures required in paragraph (f)(1) of this section are used, except as provided for in the following:

(i) To compute the %P_s, an adjusted %R_g(%R_go) is computed from E_{ao}o from paragraph (e)(1) of this section and an adjusted average SO₂inlet rate (E_{ai}o) using the following formula:

$$\%R_{g,o} = 100 \left(1 - \frac{E_{ao}}{E_{ai}} \right)$$

Where:

%R_go = Adjusted %R_g, in percent;

E_{ao}o = Adjusted E_{ao}, ng/J (lb/MMBtu); and

E_{ai}o = Adjusted average SO₂inlet rate, ng/J (lb/MMBtu).

(ii) To compute E_{ai}o, an adjusted hourly SO₂inlet rate (E_{hi}o) is used. The E_{hi}o is computed using the following formula:

$$E_{hi,o} = \frac{E_{hi} - E_w(1 - X_k)}{X_k}$$

Where:

E_{hi}o = Adjusted E_{hi}, ng/J (lb/MMBtu);

E_{hi}= Hourly SO₂inlet rate, ng/J (lb/MMBtu);

E_w= SO₂concentration in fuels other than coal and oil combusted in the affected facility, as determined by fuel sampling and analysis procedures in Method 19 of appendix A of this part, ng/J (lb/MMBtu). The value E_wfor each fuel lot is used for each hourly average during the time that the lot is being combusted. The owner or operator does not have to measure E_wif the owner or operator elects to assume E_w= 0; and

X_k= Fraction of the total heat input from fuel combustion derived from coal and oil, as determined by applicable procedures in Method 19 of appendix A of this part.

(g) For oil-fired affected facilities where the owner or operator seeks to demonstrate compliance with the fuel oil sulfur limits under §60.42c based on shipment fuel sampling, the initial performance test shall consist of sampling and analyzing the oil in the initial tank of oil to be fired in the steam generating unit to demonstrate that the oil contains 0.5 weight percent sulfur or less. Thereafter, the owner or operator of the affected facility shall sample the oil in the fuel tank after each new shipment of oil is received, as described under §60.46c(d)(2).

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

(i) The owner or operator of an affected facility seeking to demonstrate compliance with the SO₂ standards under §60.42c(c)(2) shall demonstrate the maximum design heat input capacity of the steam generating unit by operating the steam generating unit at this capacity for 24 hours. This demonstration shall be made during the initial performance test, and a subsequent demonstration may be requested at any other time. If the demonstrated 24-hour average firing rate for the affected facility is less than the maximum design heat input capacity stated by the manufacturer of the affected facility, the demonstrated 24-hour average firing rate shall be used to determine the annual capacity factor for the affected facility; otherwise, the maximum design heat input capacity provided by the manufacturer shall be used.

(j) The owner or operator of an affected facility shall use all valid SO₂ emissions data in calculating %P_s and E_{h0} under paragraphs (d), (e), or (f) of this section, as applicable, whether or not the minimum emissions data requirements under §60.46c(f) are achieved. All valid emissions data, including valid data collected during periods of startup, shutdown, and malfunction, shall be used in calculating %P_s or E_{h0} pursuant to paragraphs (d), (e), or (f) of this section, as applicable.

[72 FR 32759, June 13, 2007, as amended at 74 FR 5091, Jan. 28, 2009]

§ 60.45c Compliance and performance test methods and procedures for particulate matter.

(a) The owner or operator of an affected facility subject to the PM and/or opacity standards under §60.43c shall conduct an initial performance test as required under §60.8, and shall conduct subsequent performance tests as requested by the Administrator, to determine compliance with the standards using the following procedures and reference methods, except as specified in paragraph (c) of this section.

(1) Method 1 of appendix A of this part shall be used to select the sampling site and the number of traverse sampling points.

(2) Method 3A or 3B of appendix A–2 of this part shall be used for gas analysis when applying Method 5 or 5B of appendix A–3 of this part or 17 of appendix A–6 of this part.

(3) Method 5, 5B, or 17 of appendix A of this part shall be used to measure the concentration of PM as follows:

(i) Method 5 of appendix A of this part may be used only at affected facilities without wet scrubber systems.

(ii) Method 17 of appendix A of this part may be used at affected facilities with or without wet scrubber systems provided the stack gas temperature does not exceed a temperature of 160 °C (320 °F). The procedures of Sections 8.1 and 11.1 of Method 5B of appendix A of this part may be used in Method 17 of appendix A of this part only if Method 17 of appendix A of this part is used in conjunction with a wet scrubber system. Method 17 of appendix A of this part shall not be used in conjunction with a wet scrubber system if the effluent is saturated or laden with water droplets.

(iii) Method 5B of appendix A of this part may be used in conjunction with a wet scrubber system.

(4) The sampling time for each run shall be at least 120 minutes and the minimum sampling volume shall be 1.7 dry standard cubic meters (dscm) [60 dry standard cubic feet (dscf)] except that smaller sampling times or volumes may be approved by the Administrator when necessitated by process variables or other factors.

(5) For Method 5 or 5B of appendix A of this part, the temperature of the sample gas in the probe and filter holder shall be monitored and maintained at 160 ±14 °C (320±25 °F).

(6) For determination of PM emissions, an oxygen (O₂) or carbon dioxide (CO₂) measurement shall be obtained simultaneously with each run of Method 5, 5B, or 17 of appendix A of this part by traversing the duct at the same sampling location.

(7) For each run using Method 5, 5B, or 17 of appendix A of this part, the emission rates expressed in ng/J (lb/MMBtu) heat input shall be determined using:

(i) The O₂ or CO₂ measurements and PM measurements obtained under this section, (ii) The dry basis F factor, and

(iii) The dry basis emission rate calculation procedure contained in Method 19 of appendix A of this part.

(8) Method 9 of appendix A–4 of this part shall be used for determining the opacity of stack emissions.

(b) The owner or operator of an affected facility seeking to demonstrate compliance with the PM standards under §60.43c(b)(2) shall demonstrate the maximum design heat input capacity of the steam generating unit by operating the steam generating unit at this capacity for 24 hours. This demonstration shall be made during the initial performance test, and a subsequent demonstration may be requested at any other time. If the demonstrated 24-hour average firing rate for the affected facility is less than the maximum design heat input capacity stated by the manufacturer of the affected facility, the demonstrated 24-hour average firing rate shall be used to determine the annual capacity factor for the affected facility; otherwise, the maximum design heat input capacity provided by the manufacturer shall be used.

(c) In place of PM testing with Method 5 or 5B of appendix A–3 of this part or Method 17 of appendix A–6 of this part, an owner or operator may elect to install, calibrate, maintain, and operate a CEMS for monitoring PM emissions discharged to the atmosphere and record the output of the system. The owner or operator of an affected facility who elects to continuously monitor PM emissions instead of conducting performance testing using Method 5 or 5B of appendix A–3 of this part or Method 17 of appendix A–6 of this part shall install, calibrate, maintain, and operate a CEMS and shall comply with the requirements specified in paragraphs (c)(1) through (c)(14) of this section.

(1) Notify the Administrator 1 month before starting use of the system.

(2) Notify the Administrator 1 month before stopping use of the system.

(3) The monitor shall be installed, evaluated, and operated in accordance with §60.13 of subpart A of this part.

(4) The initial performance evaluation shall be completed no later than 180 days after the date of initial startup of the affected facility, as specified under §60.8 of subpart A of this part or within 180 days of notification to the Administrator of use of CEMS if the owner or operator was previously determining compliance by Method 5, 5B, or 17 of appendix A of this part performance tests, whichever is later.

(5) The owner or operator of an affected facility shall conduct an initial performance test for PM emissions as required under §60.8 of subpart A of this part. Compliance with the PM emission limit shall be determined by using the CEMS specified in paragraph (d) of this section to measure PM and calculating a 24-hour block arithmetic average emission concentration using EPA Reference Method 19 of appendix A of this part, section 4.1.

(6) Compliance with the PM emission limit shall be determined based on the 24-hour daily (block) average of the hourly arithmetic average emission concentrations using CEMS outlet data.

(7) At a minimum, valid CEMS hourly averages shall be obtained as specified in paragraph (c)(7)(i) of this section for 75 percent of the total operating hours per 30-day rolling average.

(i) At least two data points per hour shall be used to calculate each 1-hour arithmetic average.

(ii) [Reserved]

(8) The 1-hour arithmetic averages required under paragraph (c)(7) of this section shall be expressed in ng/J or lb/MMBtu heat input and shall be used to calculate the boiler operating day daily arithmetic average emission concentrations. The 1-hour arithmetic averages shall be calculated using the data points required under §60.13(e)(2) of subpart A of this part.

(9) All valid CEMS data shall be used in calculating average emission concentrations even if the minimum CEMS data requirements of paragraph (c)(7) of this section are not met.

(10) The CEMS shall be operated according to Performance Specification 11 in appendix B of this part.

(11) During the correlation testing runs of the CEMS required by Performance Specification 11 in appendix B of this part, PM and O₂(or CO₂) data shall be collected concurrently (or within a 30- to 60-minute period) by both the continuous emission monitors and performance tests conducted using the following test methods.

(i) For PM, Method 5 or 5B of appendix A–3 of this part or Method 17 of appendix A–6 of this part shall be used; and

(ii) After July 1, 2010 or after Method 202 of appendix M of part 51 has been revised to minimize artifact measurement and notice of that change has been published in the Federal Register, whichever is later, for condensable PM emissions, Method 202 of appendix M of part 51 shall be used; and

(iii) For O₂ (or CO₂), Method 3A or 3B of appendix A–2 of this part, as applicable shall be used.

(12) Quarterly accuracy determinations and daily calibration drift tests shall be performed in accordance with procedure 2 in appendix F of this part. Relative Response Audit's must be performed annually and Response Correlation Audits must be performed every 3 years.

(13) When PM emissions data are not obtained because of CEMS breakdowns, repairs, calibration checks, and zero and span adjustments, emissions data shall be obtained by using other monitoring systems as approved by the Administrator or EPA Reference Method 19 of appendix A of this part to provide, as necessary, valid emissions data for a minimum of 75 percent of total operating hours on a 30-day rolling average.

(14) After July 1, 2011, within 90 days after the date of completing each performance evaluation required by paragraph (c)(11) of this section, the owner or operator of the affected facility must either submit the test data to EPA by successfully entering the data electronically into EPA's WebFIRE data base available at <http://cfpub.epa.gov/oarweb/index.cfm?action=fire.main> or mail a copy to: United States Environmental Protection Agency; Energy Strategies Group; 109 TW Alexander DR; Mail Code: D243–01; RTP, NC 27711.

(d) The owner or operator of an affected facility seeking to demonstrate compliance under §60.43c(e)(4) shall follow the applicable procedures under §60.48c(f). For residual oil-fired affected facilities, fuel supplier certifications are only allowed for facilities with heat input capacities between 2.9 and 8.7 MW (10 to 30 MMBtu/hr).

[72 FR 32759, June 13, 2007, as amended at 74 FR 5091, Jan. 28, 2009]

§ 60.46c Emission monitoring for sulfur dioxide.

(a) Except as provided in paragraphs (d) and (e) of this section, the owner or operator of an affected facility subject to the SO₂ emission limits under §60.42c shall install, calibrate, maintain, and operate a CEMS for measuring SO₂ concentrations and either O₂ or CO₂ concentrations at the outlet of the SO₂ control device (or the outlet of the steam generating unit if no SO₂ control device is used), and shall record the output of the system. The owner or operator of an affected facility subject to the percent reduction requirements under §60.42c shall measure SO₂ concentrations and either O₂ or CO₂ concentrations at both the inlet and outlet of the SO₂ control device.

(b) The 1-hour average SO₂ emission rates measured by a CEMS shall be expressed in ng/J or lb/MMBtu heat input and shall be used to calculate the average emission rates under §60.42c. Each 1-hour average SO₂ emission rate must be based on at least 30 minutes of operation, and shall be calculated using the data points required under §60.13(h)(2). Hourly SO₂ emission rates are not calculated if the affected facility is operated less than 30 minutes in a 1-hour period and are not counted toward determination of a steam generating unit operating day.

(c) The procedures under §60.13 shall be followed for installation, evaluation, and operation of the CEMS.

(1) All CEMS shall be operated in accordance with the applicable procedures under Performance Specifications 1, 2, and 3 of appendix B of this part.

(2) Quarterly accuracy determinations and daily calibration drift tests shall be performed in accordance with Procedure 1 of appendix F of this part.

(3) For affected facilities subject to the percent reduction requirements under §60.42c, the span value of the SO₂CEMS at the inlet to the SO₂control device shall be 125 percent of the maximum estimated hourly potential SO₂emission rate of the fuel combusted, and the span value of the SO₂CEMS at the outlet from the SO₂control device shall be 50 percent of the maximum estimated hourly potential SO₂emission rate of the fuel combusted.

(4) For affected facilities that are not subject to the percent reduction requirements of §60.42c, the span value of the SO₂CEMS at the outlet from the SO₂control device (or outlet of the steam generating unit if no SO₂control device is used) shall be 125 percent of the maximum estimated hourly potential SO₂emission rate of the fuel combusted.

(d) As an alternative to operating a CEMS at the inlet to the SO₂control device (or outlet of the steam generating unit if no SO₂control device is used) as required under paragraph (a) of this section, an owner or operator may elect to determine the average SO₂emission rate by sampling the fuel prior to combustion. As an alternative to operating a CEMS at the outlet from the SO₂control device (or outlet of the steam generating unit if no SO₂control device is used) as required under paragraph (a) of this section, an owner or operator may elect to determine the average SO₂emission rate by using Method 6B of appendix A of this part. Fuel sampling shall be conducted pursuant to either paragraph (d)(1) or (d)(2) of this section. Method 6B of appendix A of this part shall be conducted pursuant to paragraph (d)(3) of this section.

(1) For affected facilities combusting coal or oil, coal or oil samples shall be collected daily in an as-fired condition at the inlet to the steam generating unit and analyzed for sulfur content and heat content according the Method 19 of appendix A of this part. Method 19 of appendix A of this part provides procedures for converting these measurements into the format to be used in calculating the average SO₂input rate.

(2) As an alternative fuel sampling procedure for affected facilities combusting oil, oil samples may be collected from the fuel tank for each steam generating unit immediately after the fuel tank is filled and before any oil is combusted. The owner or operator of the affected facility shall analyze the oil sample to determine the sulfur content of the oil. If a partially empty fuel tank is refilled, a new sample and analysis of the fuel in the tank would be required upon filling. Results of the fuel analysis taken after each new shipment of oil is received shall be used as the daily value when calculating the 30-day rolling average until the next shipment is received. If the fuel analysis shows that the sulfur content in the fuel tank is greater than 0.5 weight percent sulfur, the owner or operator shall ensure that the sulfur content of subsequent oil shipments is low enough to cause the 30-day rolling average sulfur content to be 0.5 weight percent sulfur or less.

(3) Method 6B of appendix A of this part may be used in lieu of CEMS to measure SO₂at the inlet or outlet of the SO₂control system. An initial stratification test is required to verify the adequacy of the Method 6B of appendix A of this part sampling location. The stratification test shall consist of three paired runs of a suitable SO₂and CO₂measurement train operated at the candidate location and a second similar train operated according to the procedures in §3.2 and the applicable procedures in section 7 of Performance Specification 2 of appendix B of this part. Method 6B of appendix A of this part, Method 6A of appendix A of this part, or a combination of Methods 6 and 3 of appendix A of this part or Methods 6C and 3A of appendix A of this part are suitable measurement techniques. If Method 6B of appendix A of this part is used for the second train, sampling time and timer operation may be adjusted for the stratification test as long as an adequate sample volume is collected; however, both sampling trains are to be operated similarly. For the location to be adequate for Method 6B of appendix A of this part 24-hour tests, the mean of the absolute difference between the three paired runs must be less than 10 percent (0.10).

(e) The monitoring requirements of paragraphs (a) and (d) of this section shall not apply to affected facilities subject to §60.42c(h) (1), (2), or (3) where the owner or operator of the affected facility seeks to demonstrate compliance with the SO₂standards based on fuel supplier certification, as described under §60.48c(f), as applicable.

(f) The owner or operator of an affected facility operating a CEMS pursuant to paragraph (a) of this section, or conducting as-fired fuel sampling pursuant to paragraph (d)(1) of this section, shall obtain emission data for at least

75 percent of the operating hours in at least 22 out of 30 successive steam generating unit operating days. If this minimum data requirement is not met with a single monitoring system, the owner or operator of the affected facility shall supplement the emission data with data collected with other monitoring systems as approved by the Administrator.

§ 60.47c Emission monitoring for particulate matter.

(a) Except as provided in paragraphs (c), (d), (e), (f), and (g) of this section, the owner or operator of an affected facility combusting coal, oil, or wood that is subject to the opacity standards under §60.43c shall install, calibrate, maintain, and operate a continuous opacity monitoring system (COMS) for measuring the opacity of the emissions discharged to the atmosphere and record the output of the system. The owner or operator of an affected facility subject to an opacity standard in §60.43c(c) and that is not required to install a COMS due to paragraphs (c), (d), (e), or (f) of this section that elects not to install a COMS shall conduct a performance test using Method 9 of appendix A–4 of this part and the procedures in §60.11 to demonstrate compliance with the applicable limit in §60.43c and shall comply with either paragraphs (a)(1), (a)(2), or (a)(3) of this section. If during the initial 60 minutes of observation all 6-minute averages are less than 10 percent and all individual 15-second observations are less than or equal to 20 percent, the observation period may be reduced from 3 hours to 60 minutes.

(1) Except as provided in paragraph (a)(2) and (a)(3) of this section, the owner or operator shall conduct subsequent Method 9 of appendix A–4 of this part performance tests using the procedures in paragraph (a) of this section according to the applicable schedule in paragraphs (a)(1)(i) through (a)(1)(iv) of this section, as determined by the most recent Method 9 of appendix A–4 of this part performance test results.

(i) If no visible emissions are observed, a subsequent Method 9 of appendix A–4 of this part performance test must be completed within 12 calendar months from the date that the most recent performance test was conducted;

(ii) If visible emissions are observed but the maximum 6-minute average opacity is less than or equal to 5 percent, a subsequent Method 9 of appendix A–4 of this part performance test must be completed within 6 calendar months from the date that the most recent performance test was conducted;

(iii) If the maximum 6-minute average opacity is greater than 5 percent but less than or equal to 10 percent, a subsequent Method 9 of appendix A–4 of this part performance test must be completed within 3 calendar months from the date that the most recent performance test was conducted; or

(iv) If the maximum 6-minute average opacity is greater than 10 percent, a subsequent Method 9 of appendix A–4 of this part performance test must be completed within 30 calendar days from the date that the most recent performance test was conducted.

(2) If the maximum 6-minute opacity is less than 10 percent during the most recent Method 9 of appendix A–4 of this part performance test, the owner or operator may, as an alternative to performing subsequent Method 9 of appendix A–4 of this part performance tests, elect to perform subsequent monitoring using Method 22 of appendix A–7 of this part according to the procedures specified in paragraphs (a)(2)(i) and (ii) of this section.

(i) The owner or operator shall conduct 10 minute observations (during normal operation) each operating day the affected facility fires fuel for which an opacity standard is applicable using Method 22 of appendix A–7 of this part and demonstrate that the sum of the occurrences of any visible emissions is not in excess of 5 percent of the observation period (*i.e.* , 30 seconds per 10 minute period). If the sum of the occurrence of any visible emissions is greater than 30 seconds during the initial 10 minute observation, immediately conduct a 30 minute observation. If the sum of the occurrence of visible emissions is greater than 5 percent of the observation period (*i.e.* , 90 seconds per 30 minute period) the owner or operator shall either document and adjust the operation of the facility and demonstrate within 24 hours that the sum of the occurrence of visible emissions is equal to or less than 5 percent during a 30 minute observation (*i.e.* , 90 seconds) or conduct a new Method 9 of appendix A–4 of this part performance test using the procedures in paragraph (a) of this section within 30 calendar days according to the requirements in §60.45c(a)(8).

(ii) If no visible emissions are observed for 30 operating days during which an opacity standard is applicable, observations can be reduced to once every 7 operating days during which an opacity standard is applicable. If any visible emissions are observed, daily observations shall be resumed.

(3) If the maximum 6-minute opacity is less than 10 percent during the most recent Method 9 of appendix A–4 of this part performance test, the owner or operator may, as an alternative to performing subsequent Method 9 of appendix A–4 performance tests, elect to perform subsequent monitoring using a digital opacity compliance system according to a site-specific monitoring plan approved by the Administrator. The observations shall be similar, but not necessarily identical, to the requirements in paragraph (a)(2) of this section. For reference purposes in preparing the monitoring plan, see OAQPS “Determination of Visible Emission Opacity from Stationary Sources Using Computer-Based Photographic Analysis Systems.” This document is available from the U.S. Environmental Protection Agency (U.S. EPA); Office of Air Quality and Planning Standards; Sector Policies and Programs Division; Measurement Policy Group (D243–02), Research Triangle Park, NC 27711. This document is also available on the Technology Transfer Network (TTN) under Emission Measurement Center Preliminary Methods.

(b) All COMS shall be operated in accordance with the applicable procedures under Performance Specification 1 of appendix B of this part. The span value of the opacity COMS shall be between 60 and 80 percent.

(c) Owners and operators of an affected facilities that burn only distillate oil that contains no more than 0.5 weight percent sulfur and/or liquid or gaseous fuels with potential sulfur dioxide emission rates of 26 ng/J (0.060 lb/MMBtu) heat input or less and that do not use a post-combustion technology to reduce SO₂ or PM emissions and that are subject to an opacity standard in §60.43c(c) are not required to operate a COMS if they follow the applicable procedures in §60.48c(f).

(d) Owners or operators complying with the PM emission limit by using a PM CEMS must calibrate, maintain, operate, and record the output of the system for PM emissions discharged to the atmosphere as specified in §60.45c(c). The CEMS specified in paragraph §60.45c(c) shall be operated and data recorded during all periods of operation of the affected facility except for CEMS breakdowns and repairs. Data is recorded during calibration checks, and zero and span adjustments.

(e) Owners and operators of an affected facility that is subject to an opacity standard in §60.43c(c) and that does not use post-combustion technology (except a wet scrubber) for reducing PM, SO₂, or carbon monoxide (CO) emissions, burns only gaseous fuels or fuel oils that contain less than or equal to 0.5 weight percent sulfur, and is operated such that emissions of CO discharged to the atmosphere from the affected facility are maintained at levels less than or equal to 0.15 lb/MMBtu on a boiler operating day average basis is not required to operate a COMS. Owners and operators of affected facilities electing to comply with this paragraph must demonstrate compliance according to the procedures specified in paragraphs (e)(1) through (4) of this section; or

(1) You must monitor CO emissions using a CEMS according to the procedures specified in paragraphs (e)(1)(i) through (iv) of this section.

(i) The CO CEMS must be installed, certified, maintained, and operated according to the provisions in §60.58b(i)(3) of subpart Eb of this part.

(ii) Each 1-hour CO emissions average is calculated using the data points generated by the CO CEMS expressed in parts per million by volume corrected to 3 percent oxygen (dry basis).

(iii) At a minimum, valid 1-hour CO emissions averages must be obtained for at least 90 percent of the operating hours on a 30-day rolling average basis. The 1-hour averages are calculated using the data points required in §60.13(h)(2).

(iv) Quarterly accuracy determinations and daily calibration drift tests for the CO CEMS must be performed in accordance with procedure 1 in appendix F of this part.

(2) You must calculate the 1-hour average CO emissions levels for each steam generating unit operating day by multiplying the average hourly CO output concentration measured by the CO CEMS times the corresponding average hourly flue gas flow rate and divided by the corresponding average hourly heat input to the affected source. The 24-hour average CO emission level is determined by calculating the arithmetic average of the hourly CO emission levels computed for each steam generating unit operating day.

(3) You must evaluate the preceding 24-hour average CO emission level each steam generating unit operating day excluding periods of affected source startup, shutdown, or malfunction. If the 24-hour average CO emission level is

greater than 0.15 lb/MMBtu, you must initiate investigation of the relevant equipment and control systems within 24 hours of the first discovery of the high emission incident and, take the appropriate corrective action as soon as practicable to adjust control settings or repair equipment to reduce the 24-hour average CO emission level to 0.15 lb/MMBtu or less.

(4) You must record the CO measurements and calculations performed according to paragraph (e) of this section and any corrective actions taken. The record of corrective action taken must include the date and time during which the 24-hour average CO emission level was greater than 0.15 lb/MMBtu, and the date, time, and description of the corrective action.

(f) Owners and operators of an affected facility that is subject to an opacity standard in §60.43c(c) and that uses a bag leak detection system to monitor the performance of a fabric filter (baghouse) according to the most recent requirements in section §60.48Da of this part is not required to operate a COMS.

(g) Owners and operators of an affected facility that is subject to an opacity standard in §60.43c(c) and that burns only gaseous fuels or fuel oils that contain less than or equal to 0.5 weight percent sulfur and operates according to a written site-specific monitoring plan approved by the permitting authority is not required to operate a COMS. This monitoring plan must include procedures and criteria for establishing and monitoring specific parameters for the affected facility indicative of compliance with the opacity standard.

[72 FR 32759, June 13, 2007, as amended at 74 FR 5091, Jan. 28, 2009]

§ 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.

(2) If applicable, a copy of any federally enforceable requirement that limits the annual capacity factor for any fuel or mixture of fuels under §60.42c, or §60.43c.

(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.

(4) Notification if an emerging technology will be used for controlling SO₂ emissions. The Administrator will examine the description of the control device and will determine whether the technology qualifies as an emerging technology. In making this determination, the Administrator may require the owner or operator of the affected facility to submit additional information concerning the control device. The affected facility is subject to the provisions of §60.42c(a) or (b)(1), unless and until this determination is made by the Administrator.

(b) The owner or operator of each affected facility subject to the SO₂ emission limits of §60.42c, or the PM or opacity limits of §60.43c, shall submit to the Administrator the performance test data from the initial and any subsequent performance tests and, if applicable, the performance evaluation of the CEMS and/or COMS using the applicable performance specifications in appendix B of this part.

(c) In addition to the applicable requirements in §60.7, the owner or operator of an affected facility subject to the opacity limits in §60.43c(c) shall submit excess emission reports for any excess emissions from the affected facility that occur during the reporting period and maintain records according to the requirements specified in paragraphs (c)(1) through (3) of this section, as applicable to the visible emissions monitoring method used.

(1) For each performance test conducted using Method 9 of appendix A-4 of this part, the owner or operator shall keep the records including the information specified in paragraphs (c)(1)(i) through (iii) of this section.

(i) Dates and time intervals of all opacity observation periods;

(ii) Name, affiliation, and copy of current visible emission reading certification for each visible emission observer participating in the performance test; and

(iii) Copies of all visible emission observer opacity field data sheets;

(2) For each performance test conducted using Method 22 of appendix A-4 of this part, the owner or operator shall keep the records including the information specified in paragraphs (c)(2)(i) through (iv) of this section.

(i) Dates and time intervals of all visible emissions observation periods;

(ii) Name and affiliation for each visible emission observer participating in the performance test;

(iii) Copies of all visible emission observer opacity field data sheets; and

(iv) Documentation of any adjustments made and the time the adjustments were completed to the affected facility operation by the owner or operator to demonstrate compliance with the applicable monitoring requirements.

(3) For each digital opacity compliance system, the owner or operator shall maintain records and submit reports according to the requirements specified in the site-specific monitoring plan approved by the Administrator

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

(e) The owner or operator of each affected facility subject to the SO₂ emission limits, fuel oil sulfur limits, or percent reduction requirements under §60.42c shall keep records and submit reports as required under paragraph (d) of this section, including the following information, as applicable.

(1) Calendar dates covered in the reporting period.

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

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

(4) Identification of any steam generating unit operating days for which SO₂ or diluent (O₂ or CO₂) data have not been obtained by an approved method for at least 75 percent of the operating hours; justification for not obtaining sufficient data; and a description of corrective actions taken.

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

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

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

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

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

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

(11) If fuel supplier certification is used to demonstrate compliance, records of fuel supplier certification as described under paragraph (f)(1), (2), (3), or (4) of this section, as applicable. In addition to records of fuel supplier certifications, the report shall include a certified statement signed by the owner or operator of the affected facility that the records of fuel supplier certifications submitted represent all of the fuel combusted during the reporting period.

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

(1) For distillate oil:

(i) The name of the oil supplier;

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

(iii) The sulfur content or maximum sulfur content of the oil.

(2) For residual oil:

(i) The name of the oil supplier;

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

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

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

(3) For coal:

(i) The name of the coal supplier;

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

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

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

(4) For other fuels:

(i) The name of the supplier of the fuel;

(ii) The potential sulfur emissions rate or maximum potential sulfur emissions rate of the fuel in ng/J heat input; and

(iii) The method used to determine the potential sulfur emissions rate of the fuel.

(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.

(h) The owner or operator of each affected facility subject to a federally enforceable requirement limiting the annual capacity factor for any fuel or mixture of fuels under §60.42c or §60.43c shall calculate the annual capacity factor individually for each fuel combusted. The annual capacity factor is determined on a 12-month rolling average basis with a new annual capacity factor calculated at the end of the 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.

[72 FR 32759, June 13, 2007, as amended at 74 FR 5091, Jan. 28, 2009]

Indiana Department of Environmental Management
Office of Air Quality

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

Source Background and Description
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Source Name:	Tyson Fresh Meats, Inc.
Source Location:	2125 S County Road 125 W, Logansport, IN 46947
County:	Cass
SIC Code:	2011
Permit Renewal No.:	T017-32407-00034
Permit Reviewer:	Diya Bhattacharjee

The Office of Air Quality (OAQ) has reviewed the operating permit renewal application Tyson Fresh Meats, Inc. relating to the operation of a stationary meat packaging & rendering plant. On October 10, 2012, Tyson Fresh Meats, Inc. submitted an application to the OAQ requesting to renew its operating permit. Tyson Fresh Meats, Inc. was issued its first Part 70 Operating Permit Renewal T017-21598-00034) on July 11, 2008.

Permitted Emission Units and Pollution Control Equipment

The source consists of the following permitted emission units:

- (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 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, constructed in 1998, exhausting to Stack C003.
 - (3) Three (3) Dupps high pressure pressors, constructed in 1998, with emissions controlled by a venturi/ packed bed scrubber, exhausting to Stack C003.
 - (4) Two (2) Sharples centrifuges, constructed in 1998, with emissions controlled by a venturi/packed bed scrubber, exhausting to Stack C003.
 - (5) Two (2) screw conveyors constructed in 1998, with emissions controlled by a venturi/packed bed scrubber, exhausting to Stack C003.
 - (6) One (1) precrusher metering bin constructed in 1998, with emissions controlled by a venturi/packed bed scrubber, exhausting to Stack C003.
 - (7) One (1) inedible crax bin constructed in 1998, with uncontrolled emissions exhausting inside the building.
 - (8) One (1) hammermill and a screen constructed in 1998 with uncontrolled emissions exhausting inside the building.
 - (9) Two (2) inedible crax silos, constructed in 1994 with uncontrolled emissions exhausting to the atmosphere.
 - (10) One (1) truck loadout, constructed in 1998 with uncontrolled emissions.

- (11) One (1) rail loadout, constructed in 1998 with uncontrolled emissions.
- (b) One (1) natural gas-fired boiler, identified as B001, using propane, distillate or No. 2 fuel oil 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.
- (c) One (1) natural gas-fired boiler, identified as 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.

Insignificant Activities

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]
- (e) 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).
- (f) 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).
- (g) 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).
- (h) A spinal vacuum pump.
- (i) A vacuum pump for steam sanitizing.
- (j) A gasoline fuel transfer and dispensing operation handling less than or equal to 1,300 gallons per day.
- (k) 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.

- (l) One (1) five hundred (500) gallon storage tank storing hydraulic oil.
- (m) Degreasing operations that do not exceed 145 gallons per 12 months, except if subject to 326 IAC 20-6.
- (n) The following equipment related to manufacturing activities not resulting in the emission of HAPs: brazing equipment, cutting torches, soldering equipment, welding equipment.
- (o) Operations using aqueous solutions containing less than 1% by weight of VOCs excluding HAPs.
- (p) Water based adhesives that are less than or equal to 5% by volume of VOCs excluding HAPs.
- (q) Forced and induced draft cooling tower system not regulated under a NESHAP.
- (r) Replacement or repair of electrostatic precipitators, bags in baghouses and filters in other air filtration equipment.
- (s) Heat exchanger cleaning and repair.
- (t) Paved and unpaved roads and parking lots with public access [326 IAC 6-4].
- (u) 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.
- (v) 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.
- (w) Blowdown for any of the following: sight glass; boiler; compressors; pumps; and cooling tower.
- (x) On-site fire and emergency response training approved by the department.

This stationary source also includes the following insignificant activities not specifically regulated:

- (a) Air make up units listed below (fired by natural gas or propane)

Location	ID	Heat input Rate (MMBtu/hr)
Cut Floor	MAU-C-1	9.00
Cut Floor	MAU-C-2	9.00
Edible Rendering	MAU-ER-1	2.40
Kill Floor	MAU-K-1	7.68
Kill Floor	MAU-K-2	7.68
Kill Floor	MAU-K-3	7.68
Kill Floor	MAU-K-4	7.92
Skinning	MAU-K-5	3.84
Stun & Bleed	MAU-K-6	8.16
Crowd Pen	MAU-K-7	0.46
Chits/ Casings	MAU-CH-1	3.00
Hides	MAU-H-1	3.84
Maintenance	MAU-M-1	3.48
Engine Room	MAU-E-1	2.40
Cafeteria	HVA-7	0.50
Classroom/Meeting	HVA-8	0.20
Support QC	HVA-9	0.07
Welfare Office Lab	HVA-11	0.23
New Womens Locker Room	HVA-23	0.19
New Mens Locker Room	HVA-24	0.40
Cafeteria	HVA-25	0.50
Inedible Rendering	MAU-IR-1	3.73
Inedible Rendering	MAU-IR-2	2.99
Womens Locker Room	HVA-15	0.50
Mens Locker Room	HVA-12	0.40
Mens Locker Room	HVA-13	0.95
Kitchen	HVA-16	0.70
USDA	HVA-3	0.16

- (b) Anaerobic Wastewater Lagoons

Existing Approvals

Since the issuance of the Part 70 Operating Permit (T017-21598-00034) on July 11, 2013, the source has constructed or has been operating under the following additional approvals:

- (a) Part 70 Operating Permit First Renewal. (T017-21598-00034) issued on July 11, 2013

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.

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 in the Part 70 Renewal 017-21598-00034 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.

Emission Calculations

See Appendix A of this document for detailed emission calculations.

County Attainment Status

The source is located in Cass County.

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

¹Unclassifiable or attainment effective October 18, 2000, for the 1-hour ozone standard which was revoked effective June 15, 2005.

Unclassifiable or attainment effective April 5, 2005, for PM_{2.5}.

- (a) Ozone Standards
Volatile organic compounds (VOC) and Nitrogen Oxides (NO_x) are regulated under the Clean Air Act (CAA) for the purposes of attaining and maintaining the National Ambient Air Quality Standards (NAAQS) for ozone. Therefore, VOC and NO_x emissions are considered when evaluating the rule applicability relating to ozone. Cass County has been designated as attainment or unclassifiable for ozone. Therefore, VOC and NO_x

emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.

- (b) Cass County has been classified as attainment for PM_{2.5}. On May 8, 2008, U.S. EPA promulgated the requirements for Prevention of Significant Deterioration (PSD) for PM_{2.5} emissions. These rules became effective on July 15, 2008. On May 4, 2011 the air pollution control board issued an emergency rule establishing the direct PM_{2.5} significant level at ten (10) tons per year. This rule became effective, June 28, 2011. Therefore, direct PM_{2.5}, SO₂, and NO_x emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2. See the State Rule Applicability – Entire Source section.
- (c) Other Criteria Pollutants
Cass County has been classified as attainment or unclassifiable in Indiana for CO, SO₂ and NO₂. Therefore, these emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.

Fugitive Emissions

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

Unrestricted Potential Emissions

This table reflects the unrestricted potential emissions of the source.

Unrestricted Potential Emissions	
Pollutant	Tons/year
PM	87.57
PM ₁₀	88.97
PM _{2.5}	85.81
SO _x	246.19
NO _x	128.96
VOC	20.06
CO	73.99
GHGs as CO ₂ e	146189.93
Single HAP	0.79, Hexane
Total HAP	0.94

HAPs	tons/year
Total	0.94

Appendix A of this TSD reflects the unrestricted potential emissions of the source.

- (a) Therefore it is a major source for Part 70 permit.

- (b) The potential to emit of NO_x and SO_x is >100 tons per year, potential to emit of GHGs is more than one hundred thousand (100,000) tons of CO₂ equivalent emissions (CO₂e) per year, the potential to emit any single HAP is <10 tons per year, and the potential to emit any combination of HAP is <25 tons per year.

Part 70 Permit Conditions

This source is subject to the requirements of 326 IAC 2-7, because the source met 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.

Limited Potential to Emit After Issuance

The table below summarizes the potential to emit, reflecting all limits, of the emission units. Any new 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 of the Entire Source After Issuance of Renewal (tons/year)									
	PM	PM ₁₀	PM _{2.5}	SO ₂	NO _x	VOC	CO	GHGs	Total HAPs	Single HAP
Inedible Pork Rendering Facility										
Wet Cooker	4.58	4.58	4.58	0.37	0.18	13.45	0.18	0.00	0.00	0.00
Drainer Screw	0.14	0.14	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00
High Pressure Pressors	0.19	0.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Centrifuges	0.02	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hammermill with a Screen	40.97	40.97	40.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Inedible Crax Silo	0.52	0.52	0.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Boilers B001	8.32	8.32	8.32	<25	45.48	1.38	21.02	33765.32	0.47	0.79, Hexane
Boilers B002	8.32	8.32	8.32	<25	45.48	1.38	21.02	33765.32	0.47	0.79, Hexane
Blood Drying System	3.91	3.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Floatation System	1.16	1.16	1.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hair System	0.38	0.12	0.38	0.00	0.00	1.77	0.00	0.00	0.00	0.00
Air makeup units	0.72	2.87	2.87	0.23	37.81	2.08	31.76	45652.96	0.00	0.68, Hexane
Anaerobic Wastewater Lagoons	0.00	0.00	0.00	0.00	0.00	0.00	0.00	33006.33	0.00	0.00
Fugitive emissions										
Unpaved Roads	29.64	8.00	29.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total PTE of Entire Source	87.57	88.97	85.81	50.59	128.96	20.06	73.99	146189.93	0.94	0.79, Hexane
Title V Major Source Thresholds	NA	100	100	100	100	100	100	100,000 CO ₂ e	25	-
PSD Major Source Thresholds	250	250	250	250	250	250	250	100,000 CO ₂ e	NA	-

- (a) This existing stationary source is not major for PSD because the emissions of each regulated pollutant, excluding GHGs, are less than two hundred fifty (<250) tons per year, and the source has not undertaken a physical change or change in the method of operation on or after July 1, 2011 that resulted in an emissions increase of seventy-five thousand (75,000) tpy CO₂e or more, and it is not in one of the twenty-eight (28) listed source categories.

Federal Rule Applicability

The following federal rules are applicable to the source due to this modification:

NSPS (326 IAC 12 and 40 CFR 60, Subpart Dc):

- (a) 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), because it has capacity of more than 10 MMBtu/hr and less than 100 MMBtu/hr and was modified in 2006 which is incorporated by reference as 326 IAC 12.

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)
- (b) There are no other New Source Performance Standards (NSPS) (326 IAC 12 and 40 CFR Part 60) applicable to this proposed modification.

NESHAP (326 IAC 2and 40 CFR 63):

- (a) There are no new National Emission Standards for Hazardous Air Pollutants (NESHAPS) (326 IAC 14, 326 IAC 20 and 40 CFR Part 63) applicable to this Renewal.

CAM (40 CFR 64):

- (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.

State Rule Applicability - Entire Source

The following state rules are applicable to the source due to the Renewal:

326 IAC 2-2 (PSD)

PSD applicability is discussed under the Permit Level Determination - PSD section.

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 2013 and every 3 years after. Therefore, the next emission statement for this source must be submitted by July 1, 2016. The emission statement shall contain, at a minimum, the information specified in 326 IAC 2-6-4.

326 IAC 5-1 (Opacity Limitations)

This source is subject to the opacity limitations specified in 326 IAC 5-1-2.

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):

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

where:

Pt = 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.

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

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

$$16.64 \text{ ton/yr} \times (2000 \text{ lbs/ton} / 8760 \text{ hrs/yr}) = 3.79 \text{ lb/hr}$$

$$(3.79 \text{ lb/hr} / 50 \text{ mmBtu/hr}) = 0.075 \text{ lb PM per mmBtu}$$

The worst-case particulate emissions from each boiler are 0.075 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 as determined by the following equation.

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

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

The particulate emissions from these facilities are as follows:

Process	Process Weight (tons/hour)	Emission Rate (lbs/hour)
Wet Cooker	1.047	4.23
Drainer Screw	0.643	3.05
Pressor (1)	0.857	3.69
Pressor (2)	0.857	3.69
Pressor (3)	0.857	3.69
Screw Conveyors	0.216	0.53
Precrusher Metering Bin	6.98	15.07
Hammermill with a Screen	6.98	15.07

- (b)

Process	Unlimited Emission (lbs/hour)
Centrifuge (1)	0.086
Centrifuge (2)	0.086
Inedible Crax Bin	0.12
Inedible Crax Silo	0.12
Blood drying system	0.04
Flotation system	0.26
Hair system	0.086

These emissions are less than 0.551 lb/hr, therefore pursuant to 326 IAC 6-3-2 they are exempt from the 6-3-2 rule

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 the condenser and venturi/packed bed scrubber as BACT.

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.

Recommendation

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

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

An application for the purposes of this review was received on October 10, 2012.

Conclusion

The operation of this stationary meat packaging & rendering plant shall be subject to the conditions of the attached Part 70 Operating Permit Renewal No. 017-32407-00034.

IDEM Contact

- (a) Questions regarding this proposed permit can be directed to Diya Bhattacharjee at the Indiana Department Environmental Management, Office of Air Quality, Permits Branch, 100 North Senate Avenue, MC 61-53 IGCN 1003, Indianapolis, Indiana 46204-2251 or by telephone at (317) 234-5372 or toll free at 1-800-451-6027 extension 5372.
- (b) A copy of the findings is available on the Internet at: <http://www.in.gov/ai/appfiles/idem-caats/>
- (c) For additional information about air permits and how the public and interested parties can participate, refer to the IDEM's Guide for Citizen Participation and Permit Guide on the Internet at: www.idem.in.gov

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

**Addendum to the Technical Support Document (ATSD) for a
Part 70 Permit Renewal**

Source Background and Description
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Source Name:	Tyson Fresh Meats, Inc.
Source Location:	2125 S County Road 125 W, Logansport, IN 46947
County:	Cass
SIC Code:	2011
Operation Permit No.:	T017-32407-00034
Permit Reviewer:	Diya Bhattacharjee

On April 22, 2013, the Office of Air Quality (OAQ) had a notice published in Pharos Tribune, Logansport, Indiana, stating that Tyson Fresh Meats, Inc. had applied for a Part 70 Permit Renewal to renew the existing permit. The notice also stated that the OAQ proposed to issue a Part 70 Permit Renewal for this operation and provided information on how the public could review the proposed permit and other documentation. Finally, the notice informed interested parties that there was a period of thirty (30) days to provide comments on whether or not this permit should be issued as proposed.

Additional Changes

IDEM, OAQ is correcting the typographical error in calculations. It does not affect the permit conditions or any rule applicability. The changes are shown below with deleted language as ~~strikeouts~~ and new language **bolded**.

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Unrestricted Potential Emissions

This table reflects the unrestricted potential emissions of the source.

Unrestricted Potential Emissions	
Pollutant	Tons/year
PM	87.57
PM ₁₀	88.97
PM _{2.5}	85.81
SO _x	0.59 246.19
NO _x	128.96
VOC	20.06
CO	73.99
GHGs as CO ₂ e	146189.93
Single HAP	0.79, Hexane
Total HAP	0.94

HAPs	tons/year
Total	0.94

Appendix A of this TSD reflects the unrestricted potential emissions of the source.

- (a) Therefore it is a major source for Part 70 permit.
- (b) The potential to emit of NOx **and SOx is** >100 tons per year, potential to emit of GHGs is more than one hundred thousand (100,000) tons of CO₂ equivalent emissions (CO₂e) per year, the potential to emit any single HAP is <10 tons per year, and the potential to emit any combination of HAP is <25 tons per year.

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Limited Potential to Emit After Issuance

The table below summarizes the potential to emit, reflecting all limits, of the emission units. Any new 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.

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Process	Limited Potential Emissions (tons/year)									
	PM	PM ₁₀	PM _{2.5}	SO _x	NO _x	VOC	CO	GHGs as CO ₂ e	Total HAPs	Single HAP
Wet Cooker	4.58	4.58	4.58	0.37	0.18	13.45	0.18	0.00	0.00	0.00
Drainer Screw	2.82	2.82	2.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00
High Pressure Pressors	11.26	11.26	11.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Centrifuges	0.75	0.75	0.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Precrusher Metering Bin	0.52	0.52	0.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Screw Conveyors	2.82	2.82	2.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Inedible Crax Bin	0.52	0.52	0.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hammermill with Screen	40.97	40.97	40.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Two (2) Inedible Crax Silos	0.52	0.52	0.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Boiler B001	8.32	8.32	8.32	<25	45.48	1.38	21.02	33765.32	0.47	0.79, Hexane
Boiler B002	8.32	8.32	8.32	<25	45.48	1.38	21.02	33765.32	0.47	0.79, Hexane
Blood Drying System	3.91	3.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Floatation System	1.16	1.16	1.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hair System	0.38	0.12	0.38	0.00	0.00	1.77	0.00	0.00	0.00	0.00
Air makeup units	0.72	2.87	2.87	0.23	37.81	2.08	31.76	45652.96	0.00	0.68, Hexane
Anaerobic Wastewater Lagoons	0.00	0.00	0.00	0.00	0.00	0.00	0.00	33006.33	0.00	0.00
Fugitive Emissions*										
Unpaved Roads	29.64	8.00	29.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Limited Emissions	87.57	88.97	85.81	0.59 50.59	128.96	20.06	73.99	146189.93	0.94	0.79, Hexane

Controlled Potential Emissions (tons/year)										
Process	PM	PM-10	PM-2.5	SOx	NOx	VOC	CO	GHGs as CO2 e	Total HAPs	Single HAP
Wet Cooker	0.23	0.23	0.23	0.37	0.18	13.45	0.18	0.00	0.00	0.00
Drainer Screw	0.14	0.14	0.14	0.00	0.00	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	0.00	0.00	0.00
Centrifuges	0.04	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Inedible Crax Bin	0.52	0.52	0.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Precrusher Metering Bin	0.00	0.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Screw Conveyors	2.82	2.82	2.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hammermill with Screen	40.97	40.97	40.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Two (2) Inedible Crax Silos	0.52	0.52	0.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Boiler B001	8.32	8.32	8.32	<25	45.48	1.38	21.02	33765.32	0.47	0.79, Hexane
Boiler B002	8.32	8.32	8.32	<25	45.48	1.38	21.02	33765.32	0.47	0.79, Hexane
Blood Drying System	0.20	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Floatation System	1.16	1.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hair System	0.38	0.12	0.00	0.00	0.00	1.77	0.00	0.00	0.00	0.00
Air Makeup units	0.72	2.87	2.87	0.23	37.81	2.08	31.76	45652.96	0.00	0.68, Hexane
Anaerobic Wastewater Lagoons	0.00	0.00	0.00	0.00	0.00	0.00	0.00	33006.33	0.00	0.00
Fugitive Emissions*										
Unpaved Roads	29.64	8.00	29.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total controlled emissions	64.89	67.28	64.71	0.59 50.59	128.96	20.06	73.99	146189.93	0.94	0.79, Hexane

* 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.

IDEM Contact

- (a) Questions regarding this proposed Part 70 Permit Renewal can be directed to Diya Bhattacharjee at the Indiana Department Environmental Management, Office of Air Quality, Permits Branch, 100 North Senate Avenue, MC 61-53 IGCN 1003, Indianapolis, Indiana 46204-2251 or by telephone at (317)234-5372 or toll free at 1-800-451-6027 extension 5372.
- (b) A copy of the permit is available on the Internet at: <http://www.in.gov/ai/appfiles/idem-caats/>
- (c) For additional information about air permits and how the public and interested parties can participate, refer to the IDEM's Guide for Citizen Participation and Permit Guide on the Internet at: www.idem.in.gov

Appendix A: Potential Emission Calculations
Emission Summary (Uncontrolled Limited and Controlled)
Company Name: Tyson Fresh Meats, Inc.
Address City IN Zip: 2125 South County Road 125 West, Logansport, Indiana 46947
Permit Number: T 017-32407-00034
Reviewer: Diya Bhattacharjee

Process	Uncontrolled Potential Emissions (tons/year)									
	PM	PM ₁₀	PM2.5	SOx	NOx	VOC	CO	GHGs as CO2 e	Total HAPs	Single HAP
Wet Cooker	4.58	4.58	4.58	0.37	0.18	13.45	0.18	0.00	0.00	0.00
Drainer Screw	2.82	2.82	2.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00
High Pressure Pressors	11.26	11.26	11.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Centrifuges	0.75	0.75	0.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Precrusher Metering Bin	0.52	0.52	0.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Screw Conveyors	2.82	2.82	2.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Inedible Crax Bin	0.52	0.52	0.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hammermill with Screen	40.97	40.97	40.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Two (2) Inedible Crax Silos	0.52	0.52	0.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Boiler B001	8.32	8.32	8.32	122.80	45.48	1.38	21.02	33765.32	0.47	0.79, Hexane
Boiler B002	8.32	8.32	8.32	122.80	45.48	1.38	21.02	33765.32	0.47	0.79, Hexane
Blood Drying System	3.91	3.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Floatation System	1.16	1.16	1.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hair System	0.38	0.12	0.38	0.00	0.00	1.77	0.00	0.00	0.00	0.00
Air makeup units	0.72	2.87	2.87	0.23	37.81	2.08	31.76	45652.96	0.00	0.68, Hexane
Anaerobic Wastewater Lagoons	0.00	0.00	0.00	0.00	0.00	0.00	0.00	33006.33	0.00	0.00
Fugitive Emissions*										
Unpaved Roads	29.64	8.00	29.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Uncontrolled Emissions	87.57	88.97	85.81	246.19	128.96	20.06	73.99	146189.93	0.94	0.79, Hexane

Process	Limited Potential Emissions (tons/year)									
	PM	PM ₁₀	PM2.5	SOx	NOx	VOC	CO	GHGs as CO2 e	Total HAPs	Single HAP
Wet Cooker	4.58	4.58	4.58	0.37	0.18	13.45	0.18	0.00	0.00	0.00
Drainer Screw	2.82	2.82	2.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00
High Pressure Pressors	11.26	11.26	11.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Centrifuges	0.75	0.75	0.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Precrusher Metering Bin	0.52	0.52	0.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Screw Conveyors	2.82	2.82	2.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Inedible Crax Bin	0.52	0.52	0.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hammermill with Screen	40.97	40.97	40.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Two (2) Inedible Crax Silos	0.52	0.52	0.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Boiler B001	8.32	8.32	8.32	<25	45.48	1.38	21.02	33765.32	0.47	0.79, Hexane
Boiler B002	8.32	8.32	8.32	<25	45.48	1.38	21.02	33765.32	0.47	0.79, Hexane
Blood Drying System	3.91	3.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Floatation System	1.16	1.16	1.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hair System	0.38	0.12	0.38	0.00	0.00	1.77	0.00	0.00	0.00	0.00
Air makeup units	0.72	2.87	2.87	0.23	37.81	2.08	31.76	45652.96	0.00	0.68, Hexane
Anaerobic Wastewater Lagoons	0.00	0.00	0.00	0.00	0.00	0.00	0.00	33006.33	0.00	0.00
Fugitive Emissions*										
Unpaved Roads	29.64	8.00	29.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Limited Emissions	87.57	88.97	85.81	50.59	128.96	20.06	73.99	146189.93	0.94	0.79, Hexane

Controlled Potential Emissions (tons/year)										
Process	PM	PM-10	PM-2.5	SOx	NOx	VOC	CO	GHGs as CO2 e	Total HAPs	Single HAP
Wet Cooker	0.23	0.23	0.23	0.37	0.18	13.45	0.18	0.00	0.00	0.00
Drainer Screw	0.14	0.14	0.14	0.00	0.00	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	0.00	0.00	0.00
Centrifuges	0.04	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Inedible Crax Bin	0.52	0.52	0.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Precrusher Metering Bin	0.00	0.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Screw Conveyors	2.82	2.82	2.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hammermill with Screen	40.97	40.97	40.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Two (2) Inedible Crax Silos	0.52	0.52	0.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Boiler B001	8.32	8.32	8.32	<25	45.48	1.38	21.02	33765.32	0.47	0.79, Hexane
Boiler B002	8.32	8.32	8.32	<25	45.48	1.38	21.02	33765.32	0.47	0.79, Hexane
Blood Drying System	0.20	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Floatation System	1.16	1.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hair System	0.38	0.12	0.00	0.00	0.00	1.77	0.00	0.00	0.00	0.00
Air Makeup units	0.72	2.87	2.87	0.23	37.81	2.08	31.76	45652.96	0.00	0.68, Hexane
Anaerobic Wastewater Lagoon	0.00	0.00	0.00	0.00	0.00	0.00	0.00	33006.33	0.00	0.00
Fugitive Emissions*										
Unpaved Roads	29.64	8.00	29.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total controlled emissions	64.89	67.28	64.71	50.59	128.96	20.06	73.99	146189.93	0.94	0.79, Hexane

* Fugitive emissions are not counted toward total soure 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 017-32407-00034
Reviewer: Diya Bhattacharjee

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

Inedible Pork Rendering Facility (Uncontrolled)

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 with Screen Controls: Building

Pollutant	Material Throughput (tons/hr)	Emission Factor (lbs/ton)	Uncontrolled	Uncontrolled
			Emission Rate (lbs/hr)	Emission Rate (tons/yr)
PM	6.98	1.340	9.353	40.967
PM-10	6.98	1.340	9.353	40.967

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%. $(0.067 \text{ lbs/ton}) / (1 - 0.95) = 1.34 \text{ lbs/ton before control}$.

Since the factor is for animal feed mills, fat content is already included in the factor. Hence, no reduction is applied.

Inedible Crax Bin 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. 50.000

Two (2) 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).

Precrusher Metering Bin Controls: Venturi /packed bed 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	0.017	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 p

Since the factor is for animal feed mills, fat content is already included in the factor. Hence, no reduction is applied.

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 017-32407-00034
Reviewer: Diya Bhattacharjee

Process Inedible Pork Rendering Facility (Uncontrolled)	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)
Screw Conveyor	95.0%	0.1000	750	0.643	2.82	0.032	0.141
Screw Conveyor	95.0%	0.1000	750	0.643	2.82	0.032	0.141
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 (2)	95.0%	0.0100	1000	0.086	0.375	0.004	0.019

Appendix A: Emissions Calculations
Natural Gas Fired Boilers B001 and B002
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 017-32407-00034
Reviewer: Diya Bhattacharjee

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					
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 Fired Boilers B001 and B002
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 017-32407-00034

Heat Input Capacity for both Boilers 876.00 MMCF/yr

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

50.075

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: Emissions Calculations
Natural Gas Fired Boilers B001 and B002
MM BTU/HR <100
Greenhouse Gas Emissions

Company Name: Tyson Fresh Meats, Inc.
Address City IN Zip: 2125 South County Road 125 West, Logansport, Indiana 46947
Permit Number: T 017-32407-00034
Reviewer: Diya Bhattacharjee

Heat Input Capacity for both Boilers 876.00 MMCF/yr

	Greenhouse Gas		
Emission Factor in lb/MMcf	CO2 120,000	CH4 2.3	N2O 2.2
Potential Emission in tons/yr	52,560	1.0	1.0
Summed Potential Emissions in tons/yr	52,562		
CO2e Total in tons/yr	52,880		

Methodology

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

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Appendix A: Emission Calculations
LPG-Propane - Industrial Boilers B001 and B002

Company Name: Tyson Fresh Meats, Inc.
Address City IN Zip: 2125 South County Road 125 West, Logansport, Indiana 46947
Permit Number: T 017-32407-00034
Reviewer: Diya Bhattacharjee

B001

Heat Input Capacity Potential Throughput
MMBtu/hr kgals/year S = Sulfur Content = 15.00 gr/ccf

50.00 4786.89

	Pollutant					
	PM*	PM10*	SO2 (0.10S)	NOx	VOC **TOC value	CO
Emission Factor in lb/kgal	0.60	0.60	1.5	19.00	0.50	3.20
Potential Emission in tons/yr	1.44	1.44	3.59	45.48	1.20	7.66

B002

Heat Input Capacity Potential Throughput
MMBtu/hr kgals/year S = Sulfur Content = 15.00 gr/ccf

50.00 4786.89

	Pollutant					
	PM* 0.6	PM10* 0.6	SO2 1.500 (0.10S)	NOx 19.0	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)
The source has requested that the sulfur content of propane be set at 15 grains/100 cubic feet as obtained from Engineering Data Book, Vol I, Section 2, page 2, Gas Processors Suppliers Association, Revised Tenth Edition 1994
Potential Throughput (kgals/year) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1kgal per 1000 gallon x 1 gal per 0.091
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-C
Emission (tons/yr) = Throughput (kgals/yr) x Emission Factor (lb/kgal) / 2,000 lb/ton

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 017-32407-00034
Reviewer: Diya Bhattacharjee

B001

Heat Input Capacity
MMBtu/hr

50.00

	Pollutant					
Emission Factor in lbs/MMBtu	PM	PM10	SO2	NOx	VOC	CO
	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					
Emission Factor in lbs/MMBtu	PM	PM10	SO2	NOx	VOC	CO
	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", Ma

Appendix A: Emissions Calculations
Wet Cooker combustion
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 017-32407-00034
Reviewer: Diya Bhattacharjee

Heat Input Capacity
MMBtu/hr

Potential Throughput
MMCF/yr

114.26

1001

	Pollutant						
Emission Factor in lb/MMCF	PM*	PM10*	direct PM2.5*	SO2	NOx	VOC	CO
	1.9	7.6	7.6	0.6	0.0	5.5	84.0
Potential Emission in tons/yr	1.0	3.8	3.8	0.3	0.0	2.8	42.0

*PM emission factor is filterable PM only. PM10 emission factor is condensable and filterable PM10 combined.
PM2.5 emission factor is condensable and filterable PM2.5 combined.
**Emission Factors for NOx: Uncontrolled = 280 (pre-NSPS) or 190 (post-NSPS), Low NOx Burner = 140, Flue gas

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 from AP 42, Chapter 1.4, Tables 1.4-1, 1.4-2, and 1.4-3, SCC #1-01-006-01, 1-01-00 (AP-42 Supplement D 3/98)
Emission (tons/yr) = Throughput (MMCF/yr) x Emission Factor (lb/MMCF)/2,000 lb/ton

Appendix A: Emissions Calculations
Natural Gas Fired Boiler
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 017-32407-00034
Reviewer: Diya Bhattacharjee

	HAPs - Organics				
Emission Factor in lb/MMcf	Benzene 2.1E-03	Dichlorobenzen 1.2E-03	Formaldehyde 7.5E-02	Hexane 1.8E+00	Toluene 3.4E-03
Potential Emission in tons/yr	1.05E-03	6.01E-04	50 3.75E-02	9.01E-01	1.70E-03

	HAPs - Metals					
Emission Factor in lb/MMcf	Lead 5.0E-04	Cadmium 1.1E-03	Chromium 1.4E-03	Manganese 3.8E-04	Nickel 2.1E-03	Total
Potential Emission in tons/yr	2.50E-04	5.51E-04	7.01E-04	1.90E-04	1.05E-03	0.944

Methodology is the same as page 1.
The five highest organic and metal HAPs emission factors are provided above.
Additional HAPs emission factors are available in AP-42, Chapter 1.4.
See Page 3 for Greenhouse Gas calculations.

Appendix A: Emissions Calculations
#2 Fuel oil Boiler B001

Company Name: Tyson Fresh Meats, Inc.
Address City IN Zip: 2125 South County Road 125 West, Logansport, Indiana 46947
Permit Number: T 017-32407-00034
Reviewer: Diya Bhattacharjee

Heat Input Capacity MMBtu/hr	Potential Throughput kgals/year	S = Weight % Sulfur 0.5
50	3128.57143	

	Pollutant						
Emission Factor in lb/kgal	PM* 2.0	PM10 2.3	direct PM2.5 1.6	SO2 78.5 (157S)	NOx 24.0	VOC 0.20	CO 5.0
Potential Emission in tons/yr	3.1	3.6	2.4	122.8	37.5	0.3	7.8

Methodology

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

Potential Throughput (kgals/year) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1kgal per 1000 gallon x 1
Emission Factors are from AP 42, Tables 1.3-1, 1.3-2, and 1.3-3 (SCC 1-02-005-01/02/03) Supplement E 9/98

*PM emission factor is filterable PM only. Condensable PM emission factor is 1.3 lb/kgal.

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

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Appendix A: Emissions Calculations**#2 Fuel oil Boiler B001****HAPs Emissions****Company Name:** Tyson Fresh Meats, Inc.**Address City IN Zip:** 2125 South County Road 125 West, Logansport, Indiana 46947**Permit Number:** T 017-32407-00034

	HAPs - Metals				
Emission Factor in lb/mmBtu	Arsenic 4.0E-06	Beryllium 3.0E-06	Cadmium 3.0E-06	Chromium 3.0E-06	Lead 9.0E-06
Potential Emission in tons/yr	8.76E-04	6.57E-04	6.57E-04	6.57E-04	1.97E-03

	HAPs - Metals (continued)				Total HAPs
Emission Factor in lb/mmBtu	3.0E-06	6.0E-06	5.0E+01	1.5E-05	
Potential Emission in tons/yr	6.57E-04	1.31E-03	1.10E+04	3.29E-03	

Methodology

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

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

See Page 3 for Greenhouse Gas calculations.

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#2 Fuel oil Boiler B001**Greenhouse Gas Emissions****Company Name:** Tyson Fresh Meats, Inc.**Address City IN Zip:** 2125 South County Road 125 West, Logansport, Indiana 46947**Permit Number:** T 017-32407-00034**Reviewer:** Diya Bhattacharjee

	Greenhouse Gas		
Emission Factor in lb/kgal	CO2 21,500	CH4 0.216	N2O 0.26
Potential Emission in tons/yr	33,632	0.3	0.4
Summed Potential Emissions in tons/yr	33,633		
CO2e Total in tons/yr	33,765		

Methodology

The CO2 Emission Factor for #2 Fuel Oil is 22300.

Emission Factors are from AP 42, Tables 1.3-3, 1.3-8, and 1.3-12 (SCC 1-03-005-01/02/03) Supplement E 9/99 (see erata
Global Warming Potentials (GWP) from Table A-1 of 40 CFR Part 98 Subpart A.

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

CO2e (tons/yr) = CO2 Potential Emission ton/yr x CO2 GWP (1) + CH4 Potential Emission ton
x CH4 GWP (21) + N2O Potential Emission ton/yr x N2O GWP (310).

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Appendix A: Emissions Calculations
#2 Fuel oil Boiler B002

Company Name: Tyson Fresh Meats, Inc.
Address City IN Zip: 2125 South County Road 125 West, Logansport, Indiana 46947
Permit Number: T 017-32407-00034
Reviewer: Diya Bhattacharjee

Heat Input Capacity MMBtu/hr	Potential Throughput kgals/year	S = Weight % Sulfur 0.5
50	3128.57143	

	Pollutant						
Emission Factor in lb/kgal	PM*	PM10	direct PM2.5	SO2	NOx	VOC	CO
	2.0	2.3	1.6	78.5 (157S)	24.0	0.20	5.0
Potential Emission in tons/yr	3.1	3.6	2.4	122.8	37.5	0.3	7.8

Methodology

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

Potential Throughput (kgals/year) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1kgal per 1000 gallon
Emission Factors are from AP 42, Tables 1.3-1, 1.3-2, and 1.3-3 (SCC 1-02-005-01/02/03) Supplement E 9/98
*PM emission factor is filterable PM only. Condensable PM emission factor is 1.3 lb/kgal.

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

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Appendix A: Emissions Calculations
#2 Fuel oil Boiler B002
HAPs Emissions

Company Name: Tyson Fresh Meats, Inc.
Address City IN Zip: 2125 South County Road 125 West, Logansport, Indiana 46947
Permit Number: T 017-32407-00034

	HAPs - Metals				
Emission Factor in lb/mmBtu	Arsenic 4.0E-06	Beryllium 3.0E-06	Cadmium 3.0E-06	Chromium 3.0E-06	Lead 9.0E-06
Potential Emission in tons/yr	8.76E-04	6.57E-04	6.57E-04	6.57E-04	1.97E-03

	HAPs - Metals (continued)			
Emission Factor in lb/mmBtu	3.0E-06	6.0E-06	5.0E+01	1.5E-05
Potential Emission in tons/yr	6.57E-04	1.31E-03	1.10E+04	3.29E-03

Methodology

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

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

See Page 3 for Greenhouse Gas calculations.

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#2 Fuel oil Boiler B002
Greenhouse Gas Emissions

Company Name: Tyson Fresh Meats, Inc.
Address City IN Zip: 2125 South County Road 125 West, Logansport, Indiana 46947
Permit Number: T 017-32407-00034
Reviewer: Diya Bhattacharjee

	Greenhouse Gas		
Emission Factor in lb/kgal	CO2 21,500	CH4 0.216	N2O 0.26
Potential Emission in tons/yr	33,632	0.3	0.4
Summed Potential Emissions in tons/yr	33,633		
CO2e Total in tons/yr	33,765		

Methodology

The CO2 Emission Factor for #2 Fuel Oil is 22300.

Emission Factors are from AP 42, Tables 1.3-3, 1.3-8, and 1.3-12 (SCC 1-03-005-01/02/03) Supplement E 9/99 (see erata
Global Warming Potentials (GWP) from Table A-1 of 40 CFR Part 98 Subpart A.

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

CO2e (tons/yr) = CO2 Potential Emission ton/yr x CO2 GWP (1) + CH4 Potential Emission ton/yr x CH4 GWP (21)
+ N2O Potential Emission ton/yr x N2O GWP (310).

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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 017-32407-00034
Reviewer: Diya Bhattacharjee

** 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: $E_f = k \cdot [(s/12)^{0.7}] \cdot [(W/3)^b]$
7.41 lb/mile
K= 4.9
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:

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

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

PM-10

Method 1a: $E_f = k \cdot [(s/12)^{0.9}] \cdot [(W/3)^b]$
= 2.00 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)

$$E = \frac{2.00 \text{ lb/mi} \times 12167 \text{ mi/yr}}{2000 \text{ lb/ton}} = 12.17 \text{ tons/yr}$$
$$E_{ext} = E \cdot [(365-p)/365] = 8.00 \text{ tons/yr}$$

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

Appendix A: Emissions Calculations

Air-makeup units

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 017-32407-00034

Reviewer: Diya Bhattacharjee

Heat Input Capacity	HHV	Potential Throughput
MMBtu/hr	mmBtu	MMCF/yr
	mmscf	
88.1	1020	756.3

	Pollutant						
Emission Factor in lb/MMCF	PM*	PM10*	direct PM2.5*	SO2	NOx	VOC	CO
	1.9	7.6	7.6	0.6	100	5.5	84
Potential Emission in tons/yr	0.7	2.9	2.9	0.2	37.8	2.1	31.8

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

PM2.5 emission factor is filterable and condensable PM2.5 combined.

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

Methodology

All emission factors are based on normal firing.

MMBtu = 1,000,000 Btu

MMCF = 1,000,000 Cubic Feet of Gas

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

Potential Throughput (MMCF) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1 MMCF/1,020 M

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

See page 2 for HAPs emissions calculations.

updated 7/11

Appendix A: Emissions Calculations
Air Makeup units
Natural Gas Combustion Only
MM BTU/HR <100
HAPs Emissions
Address City IN Zip: 2125 South County Road 125 West, Logansport, Indiana 46947
Permit Number: T 017-32407-00034
Reviewer: Diya Bhattacharjee

	HAPs - Organics					Total HAPs- Organics
	Benzene	Dichloroben zene	Formaldeh de	Hexane	Toluene	
Emission Factor in lb/MMcf	2.1E-03	1.2E-03	7.5E-02	1.8E+00	3.4E-03	7.115E-01
Potential Emission in tons/yr	7.941E-04	4.538E-04	2.836E-02 50.075	6.807E-01	1.286E-03	

	HAPs - Metals					Total HAPs - Metals
	Lead	Cadmium	Chromium	Manganese	Nickel	
Emission Factor in lb/MMcf	5.0E-04	1.1E-03	1.4E-03	3.8E-04	2.1E-03	2.072E-03
Potential Emission in tons/yr	1.891E-04	4.160E-04	5.294E-04	1.437E-04	7.941E-04	Total HAPs 7.136E-01

Methodology is the same as page 1.

The five highest organic and metal HAPs emission factors are provided above.
See Page 3 for Greenhouse Gas calculations.

updated 7/11

Appendix A: Emissions Calculations
Air Makeup units
Natural Gas Combustion Only
MM BTU/HR <100
Greenhouse Gas Emissions
Company Name: Tyson Fresh Meats, Inc.
Address City IN Zip: 2125 South County Road 125 West, Logansport, Indiana 46947
Permit Number: T 017-32407-00034
Reviewer: Diya Bhattacharjee

	Greenhouse Gas		
	CO2	CH4	N2O
Emission Factor in lb/MMcf	120,000	2.3	2.2
Potential Emission in tons/yr	45,377	0.9	0.8
Summed Potential Emissions in tons/yr	45,379		
CO2e Total in tons/yr	45,653		

Methodology

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

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Appendix A: Emission Calculations
LPG-Propane - Greater than 100 MMBtu/hr
Wet Cooker

Company Name: Tyson Fresh Meats, Inc.
Address City IN Zip: 2125 South County Road 125 West, Logansport, Indiana 46947
Permit Number: T 017-32407-00034
Reviewer: Diya Bhattacharjee

Heat Input Capacity Potential Throughput
MMBtu/hr kgals/year S = Sulfur Content = 15.00 gr/ccf

114.26 10938.99

Emission factor in lb/kgal	Pollutant					
	PM*	PM10*/PM2.5	SO2	NOx	VOC	CO
	0.4	0.4	1.5 (0.10S)	14	0.5 **TOC value	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
The source has requested that the sulfur content of propane be set at 15 grains/100 cubic feet as obtained frc Engineering Data Book, page 2, Gas Processors Suppliers Association, Revised Tenth Edition 1994
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: Emissions 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 017-32407-00034
Reviewer: Diya Bhattacharjee

Uncontrolled emissions (tons/year)									
Process/ emission unit	PM	PM10	SOx	NOx	VOC	CO	GHGs as CO2 e	Total HAPs	Single HAP
Blood Drying system	3.91	3.42	0	0	0	0	0	0	0
Floatation System	1.16	1.16	0	0	0	0	0	0	0
Hair System	0.38	0.12	0	0	1.77	0	0	0	0

Controlled emissions (tons/year)									
Process/ emission unit	PM	PM10	SOx	NOx	VOC	CO	GHGs as CO2 e	Total HAPs	Single HAP
Blood Drying system	0.1955	0.171	0	0	0	0	0	0	0
Hair System	0.38	0.12	0	0	1.77	0	0	0	0

Baghouse has a 95% efficiency for the removal of particulate matter in the blood drying system

Truck and Rail load out
There are negligible PM/ PM 10 / PM 2.5 emissions from truck and rail road out

Appendix A: Potential Emission Calculations
Greenhouse Gas Emissions from Anaerobic Wastewater Lagoons
Company Name: Tyson Fresh Meats, Inc.
Address City IN Zip: 2125 South County Road 125 West, Logansport, Indiana 46947
Permit Number: T 017-32407-00034
Reviewer: Diya Bhattacharjee

Potential emissions (tons/yr)	1571.73
CO2 e total (tons/yr)	33006.33



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

We Protect Hoosiers and Our Environment.

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Michael R. Pence
Governor

Thomas W. Easterly
Commissioner

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

TO: Eric Ikenberry
Tyson Fresh Meats, Inc.
800 Stevens Port Drive
Dakota Dunes, SD 57049

DATE: June 17, 2013

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

SUBJECT: Final Decision
Renewal of a Part 70 Operating Permit
017-32407-00034

Enclosed is the final decision and supporting materials for the air permit application referenced above. Please note that this packet contains the original, signed, permit documents.

The final decision is being sent to you because our records indicate that you are the contact person for this application. However, if you are not the appropriate person within your company to receive this document, please forward it to the correct person.

A copy of the final decision and supporting materials has also been sent via standard mail to:
Wayne Kies, Plant Manager
OAQ Permits Branch Interested Parties List

If you have technical questions regarding the enclosed documents, please contact the Office of Air Quality, Permits Branch at (317) 233-0178, or toll-free at 1-800-451-6027 (ext. 3-0178), and ask to speak to the permit reviewer who prepared the permit. If you think you have received this document in error, please contact Joanne Smiddie-Brush of my staff at 1-800-451-6027 (ext 3-0185), or via e-mail at jbrush@idem.IN.gov.

Final Applicant Cover letter.dot 6/13/2013



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

We Protect Hoosiers and Our Environment.

100 N. Senate Avenue • Indianapolis, IN 46204

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

Michael R. Pence
Governor

Thomas W. Easterly
Commissioner

June 17, 2013

TO: Logansport Cass County Library

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

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

Applicant Name: Tyson Fresh Meats, Inc.
Permit Number: 017-32407-00034

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

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

Enclosures
Final Library.dot 6/13/2013

Mail Code 61-53

IDEM Staff	VHAUN 6/17/2013 Tyson Fresh Meats, Inc 017-32407-00034 FINAL		AFFIX STAMP HERE IF USED AS CERTIFICATE OF MAILING
Name and address of Sender	 Indiana Department of Environmental Management Office of Air Quality – Permits Branch 100 N. Senate Indianapolis, IN 46204	Type of Mail: CERTIFICATE OF MAILING ONLY	

Line	Article Number	Name, Address, Street and Post Office Address	Postage	Handing Charges	Act. Value (If Registered)	Insured Value	Due Send if COD	R.R. Fee	S.D. Fee	S.H. Fee	Rest. Del. Fee
											Remarks
1		Eric Ikenberry Tyson Fresh Meats, Inc 800 Stevens Port Dr Dakota Dunes SD 57049 (Source CAATS) Confirmed Delivery									
2		Wayne Kies Plant Mgr Tyson Fresh Meats, Inc 2125 S CR 125 W Logansport IN 46947 (RO CAATS)									
3		Mr. Harry D. DuVall P.O. Box 147 Idaville IN 47950 (Affected Party)									
4		Cass County Board of Commissioner 200 Court Park Logansport IN 46947 (Local Official)									
5		Mr. Gary Scagnoli Zoning Administrator 601 Broadway Logansport IN 46947 (Affected Party)									
6		Cass County Health Department 512 High Street Logansport IN 46947-2766 (Health Department)									
7		Logansport Cass Co Public Library 616 E Broadway Logansport IN 46947-3187 (Library)									
8		Logansport City Council and Mayors Office 601 Broadway Logansport IN 46947 (Local Official)									
9		Building Commissioner 601 Broadway Logansport IN 46947 (Affected Party)									
10		Mr. Robert Kelley 2555 S 30th Street Lafayette IN 44909 (Affected Party)									
11		Mr. Tim Thomas c/o Boilermakers Local 374 6333 Kennedy Ave. Hammond IN 46333 (Affected Party)									
12		Kurt Brandstatter Central Paving, Inc. P.O. Box 357 Logansport IN 46947 (Affected Party)									
13											
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