



Mitchell E. Daniels, Jr.
Governor

Thomas W. Easterly
Commissioner

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

TO: Interested Parties / Applicant
DATE: March 29, 2006
RE: Vitamin, Inc / 091-20821-00104
FROM: Paul Dubenetzky
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, Room 1049, Indianapolis, IN 46204.

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

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

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

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

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

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

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

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

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

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



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PART 70 OPERATING PERMIT RENEWAL OFFICE OF AIR QUALITY

**Vitamins, Inc.
1700 East US 12
Michigan City, Indiana 46360**

(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.: T091-20821-00104	
Original signed by: Nisha Sizemore for Paul Dubenetzky, Assistant Commissioner Office of Air Quality	Issuance Date: March 29, 2006 Expiration Date: March 29, 2011

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SECTION A

SOURCE SUMMARY

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

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

The Permittee owns and operates a stationary wheat germ oil extraction and processing plant.

Responsible Official:	Manager of Operations
Source Address:	1700 East US 12, Michigan City, Indiana 46360
Mailing Address:	1700 East US 12, Michigan City, Indiana 46360
General Source Phone Number:	(219) 879-7356
SIC Code:	2076, 2041
County Location:	LaPorte
Source Location Status:	Nonattainment for ozone under the 8-hour standard Attainment for all other criteria pollutants
Source Status:	Part 70 Permit Program Major Source, under PSD and Emission Offset Rules Major Source, Section 112 of the Clean Air Act Not in 1 of 28 Source Categories

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

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

- (a) One (1) wheat germ oil extraction system with extractor, distiller and meal desolventizer toaster-dryer, identified as the Crown Extraction System, installed in 1957, with a maximum system throughput of 2,500 pounds wheat germ per hour, producing up to 200 pounds oil and 2,100 pounds defatted wheat germ per hour, utilizing three (3) condensers (primary condensers #1 and #2 are water-cooled; final condenser #3 is refrigerated) for hexane recovery and VOC emissions control, exhausting at one (1) common stack identified as S/V001; and
- (b) One (1) wheat germ oil extraction system with extractor, distiller and meal desolventizer toaster-dryer, identified as the French Extraction System, installed in November 2000, with a maximum system throughput of 3,500 pounds wheat germ per hour, producing up to 280 pounds oil and 2,975 pounds defatted wheat germ per hour, utilizing three (3) water-cooled condensers (#4, #5 and #6) for hexane recovery and an in-series mineral oil absorption system for VOC control, exhausting through one (1) stack identified as S/V007 (absorber stack). The extractor has one (1) exhaust stack, identified as S/V006, equipped with a cyclone (#2) for particulate control.
- (c) Two (2) 10,000 gallon virgin hexane storage tanks, identified as HT-1 and HT-2, both installed in 1986; and
- (d) One (1) tank, identified as Work Tank, installed in 2000, with a maximum tank capacity of 4,250 gallons, storing reclaimed hexane.

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

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

- (a) Natural gas-fired combustion facilities with heat input equal to or less than ten (10) million (MM) British thermal units (Btu) per hour:
 - (1) Boiler 1, rated at 6.695 MMBtu/hr, constructed in 1956; [326 IAC 6-2-3]
 - (2) Boiler 2, rated at 5.0 MMBtu/hr, constructed in 1980; [326 IAC 6-2-3]
- (b) The following activities with emissions equal to or less than insignificant thresholds:
 - (1) One (1) set of raw wheat germ storage silos with a nominal capacity of 20,000 cubic feet, with potential uncontrolled emissions of particulate matter with an aerodynamic diameter less than or equal to ten (10) micrometers (PM10) of less than five (5) pounds per hour or twenty-five (25) pounds per day, exhausting at stack S/V002; [326 IAC 6-3-2(e)]
 - (2) One (1) surge bin processing up to 2,975 pounds defatted wheat germ per hour, with potential uncontrolled emissions of particulate matter with an aerodynamic diameter less than or equal to ten (10) micrometers (PM10) of less than five (5) pounds per hour or twenty-five (25) pounds per day, controlled by a cyclone (#1) and exhausting at stack S/V005; [326 IAC 6-3-2(e)]
 - (3) One (1) milling and packaging system processing up to 2,975 pounds defatted wheat germ per hour, with potential uncontrolled emissions of particulate matter with an aerodynamic diameter less than or equal to ten (10) micrometers (PM10) of less than five (5) pounds per hour or twenty-five (25) pounds per day, controlled by a dust collector (#1) and exhausting at stack S/V003; [326 IAC 6-3-2(e)]
 - (4) One (1) set of defatted wheat germ storage silos with a nominal capacity of 18,000 cubic feet, with potential uncontrolled emissions of particulate matter with an aerodynamic diameter less than or equal to ten (10) micrometers (PM10) of less than five (5) pounds per hour or twenty-five (25) pounds per day, controlled by a dust collector (#2) and exhausting at stack SV/004. [326 IAC 6-3-2(e)]

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

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

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

SECTION B GENERAL CONDITIONS

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

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

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

- (a) This permit, T091-20821-00104, 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]

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

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

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

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

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

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

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

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

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

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

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

Indiana Department of Environmental Management
Compliance Branch, Office of Air Quality
100 North Senate Avenue
Indianapolis, Indiana 46204

and

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

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

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

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

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

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

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

Telephone Number: 1-800-451-6027 (ask for Office of Air Quality,
Compliance Section), or
Telephone Number: 317-233-5674 (ask for Compliance Section)
Facsimile Number: 317-233-5967

IDEM Northwest Regional Office:
Telephone No.: 1-888-209-8892
Facsimile No.: 219-757-0267

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

Indiana Department of Environmental Management
Compliance Branch, Office of Air Quality
100 North Senate Avenue
Indianapolis, Indiana 46204-2251

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

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

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

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

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

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

- (a) Pursuant to 326 IAC 2-7-15, the Permittee has been granted a permit shield. The permit shield provides that compliance with the conditions of this permit shall be deemed in 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 T091-20821-00104 and issued pursuant to permitting programs approved into the state implementation plan have been either:
- (1) incorporated as originally stated,
 - (2) revised under 326 IAC 2-7-10.5, or
 - (3) deleted under 326 IAC 2-7-10.5.
- (b) Provided that all terms and conditions are accurately reflected in this permit, all previous registrations and permits are superseded by this Part 70 operating permit.

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

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

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

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

Indiana Department of Environmental Management
Compliance Data Section, Office of Air Quality
100 North Senate Avenue
Indianapolis, Indiana 46204

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

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

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

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

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

- (3) That this permit must be revised or revoked to assure compliance with an applicable requirement. [326 IAC 2-7-9(a)(3)]
- (c) Proceedings by IDEM, OAQ, to reopen and revise this permit shall follow the same procedures as apply to initial permit issuance and shall affect only those parts of this permit for which cause to reopen exists. Such reopening and revision shall be made as expeditiously as practicable. [326 IAC 2-7-9(b)]
- (d) The reopening and revision of this permit, under 326 IAC 2-7-9(a), shall not be initiated before notice of such intent is provided to the Permittee by IDEM, OAQ, at least thirty (30) days in advance of the date this permit is to be reopened, except that IDEM, OAQ, may provide a shorter time period in the case of an emergency. [326 IAC 2-7-9(c)]

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

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

Request for renewal shall be submitted to:

Indiana Department of Environmental Management
Permits Branch, Office of Air Quality
100 North Senate Avenue
Indianapolis, Indiana 46204

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

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

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

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

Indiana Department of Environmental Management
Permits Branch, Office of Air Quality
100 North Senate Avenue
Indianapolis, Indiana 46204

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

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

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

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

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

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

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

(1) The changes are not modifications under any provision of Title I of the Clean Air Act;

(2) Any preconstruction approval required by 326 IAC 2-7-10.5 has been obtained;

(3) The changes do not result in emissions which exceed the limitations provided in this permit (whether expressed herein as a rate of emissions or in terms of total emissions);

(4) The Permittee notifies the:

Indiana Department of Environmental Management
Permits Branch, Office of Air Quality
100 North Senate Avenue
Indianapolis, Indiana 46204-2251

and

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

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

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

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

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

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

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

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

B.21 Source Modification Requirement [326 IAC 2-7-10.5] [326 IAC 2-2-2] [326 IAC 2-3-2]

- (a) A modification, construction, or reconstruction is governed by the requirements of 326 IAC 2 and 326 IAC 2-7-10.5.
- (b) Any modification at an existing major source is governed by the requirements of 326 IAC 2-2-2 and 326 IAC 2-3-2.

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

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

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

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

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

Indiana Department of Environmental Management
Permits Branch, Office of Air Quality
100 North Senate Avenue
Indianapolis, Indiana 46204

The application which shall be submitted by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).
- (c) The Permittee may implement administrative amendment changes addressed in the request for an administrative amendment immediately upon submittal of the request. [326 IAC 2-7-11(c)(3)]

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

- (a) The Permittee shall pay annual fees to IDEM, OAQ, within thirty (30) calendar days of receipt of a billing. Pursuant to 326 IAC 2-7-19(b), if the Permittee does not receive a bill from IDEM, OAQ, the applicable fee is due April 1 of each year.
- (b) Except as provided in 326 IAC 2-7-19(e), failure to pay may result in administrative enforcement action or revocation of this permit.

- (c) The Permittee may call the following telephone numbers: 1-800-451-6027 or 317-233-4230 (ask for OAQ, Billing, Licensing, and Training Section), to determine the appropriate permit fee.

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

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

SECTION C

SOURCE OPERATION CONDITIONS

Entire Source

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

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

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

C.2 Opacity [326 IAC 5-1]

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

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

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

The Permittee shall not open burn any material except as provided in 326 IAC 4-1-3, 326 IAC 4-1-4 or 326 IAC 4-1-6. The previous sentence notwithstanding, the Permittee may open burn in accordance with an open burning approval issued by the Commissioner under 326 IAC 4-1-4.1. 326 IAC 4-1-3 (a)(2)(A) and (B) are not federally enforceable.

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

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

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 Operation of Equipment [326 IAC 2-7-6(6)]

Except as otherwise provided by statute or rule, or in this permit, all air pollution control equipment listed in this permit and used to comply with an applicable requirement shall be operated at all times that the emission units vented to the control equipment are in operation.

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

The Permittee shall comply with the applicable provisions of 326 IAC 1-7 (Stack Height Provisions), for all exhaust stacks through which a potential (before controls) of twenty-five (25) tons per year or more of particulate matter or sulfur dioxide is emitted. 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.8 Asbestos Abatement Projects [326 IAC 14-10] [326 IAC 18] [40 CFR 61, Subpart M]

- (a) Notification requirements apply to each owner or operator. If the combined amount of regulated asbestos containing material (RACM) to be stripped, removed or disturbed is at least 260 linear feet on pipes or 160 square feet on other facility components, or at least thirty-five (35) cubic feet on all facility components, then the notification requirements of 326 IAC 14-10-3 are mandatory. All demolition projects require notification whether or not asbestos is present.
- (b) The Permittee shall ensure that a written notification is sent on a form provided by the Commissioner at least ten (10) working days before asbestos stripping or removal work or before demolition begins, per 326 IAC 14-10-3, and shall update such notice as necessary, including, but not limited to the following:
 - (1) When the amount of affected asbestos containing material increases or decreases by at least twenty percent (20%); or
 - (2) If there is a change in the following:
 - (A) Asbestos removal or demolition start date;
 - (B) Removal or demolition contractor; or
 - (C) Waste disposal site.
- (c) The Permittee shall ensure that the notice is postmarked or delivered according to the guidelines set forth in 326 IAC 14-10-3(2).
- (d) The notice to be submitted shall include the information enumerated in 326 IAC 14-10-3(3).

All required notifications shall be submitted to:

Indiana Department of Environmental Management
Asbestos Section, Office of Air Quality
100 North Senate Avenue
Indianapolis, Indiana 46204

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

- (e) **Procedures for Asbestos Emission Control**
The Permittee shall comply with the applicable emission control procedures in 326 IAC 14-10-4 and 40 CFR 61.145(c). Per 326 IAC 14-10-1, emission control requirements are applicable for any removal or disturbance of RACM greater than three (3) linear feet on pipes or three (3) square feet on any other facility components or a total of at least 0.75 cubic feet on all facility components.
- (f) **Demolition and renovation**
The Permittee shall thoroughly inspect the affected facility or part of the facility where the demolition or renovation will occur for the presence of asbestos pursuant to 40 CFR 61.145(a).

- (g) Indiana Accredited Asbestos Inspector
The Permittee shall comply with 326 IAC 14-10-1(a) that requires the owner or operator, prior to a renovation/demolition, to use an Indiana Accredited Asbestos Inspector to thoroughly inspect the affected portion of the facility for the presence of asbestos. The requirement to use an Indiana Accredited Asbestos inspector is not federally enforceable.

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

C.9 Performance Testing [326 IAC 3-6]

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

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

Indiana Department of Environmental Management
Compliance Data Section, Office of Air Quality
100 North Senate Avenue
Indianapolis, Indiana 46204

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

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

Compliance Requirements [326 IAC 2-1.1-11]

C.10 Compliance Requirements [326 IAC 2-1.1-11]

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

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

C.11 Compliance Monitoring [326 IAC 2-7-5(3)] [326 IAC 2-7-6(1)]

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

Indiana Department of Environmental Management
Compliance Branch, Office of Air Quality
100 North Senate Avenue
Indianapolis, Indiana 46204

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

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

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

C.12 Monitoring Methods [326 IAC 3] [40 CFR 60] [40 CFR 63]

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

C.13 Instrument Specifications [326 IAC 2-1.1-11] [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.14 Emergency Reduction Plans [326 IAC 1-5-2] [326 IAC 1-5-3]

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

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

Indiana Department of Environmental Management
Compliance Branch, Office of Air Quality
100 North Senate Avenue
Indianapolis, Indiana 46204

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

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

- (c) If the ERP is disapproved by IDEM, OAQ, the Permittee shall have an additional thirty (30) days to resolve the differences and submit an approvable ERP.
- (d) These ERPs shall state those actions that will be taken, when each episode level is declared, to reduce or eliminate emissions of the appropriate air pollutants.

- (e) Said ERPs shall also identify the sources of air pollutants, the approximate amount of reduction of the pollutants, and a brief description of the manner in which the reduction will be achieved.
- (f) Upon direct notification by IDEM, OAQ, that a specific air pollution episode level is in effect, the Permittee shall immediately put into effect the actions stipulated in the approved ERP for the appropriate episode level.
[326 IAC 1-5-3]

C.15 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.16 Response to Excursions or Exceedances [326 IAC 2-7-5] [326 IAC 2-7-6]

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

C.17 Actions Related to Noncompliance Demonstrated by a Stack Test [326 IAC 2-7-5] [326 IAC 2-7-6]

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

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

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

C.18 Emission Statement [326 IAC 2-7-5(3)(C)(iii)][326 IAC 2-7-5(7)][326 IAC 2-7-19(c)][326 IAC 2-6]

- (a) Pursuant to 326 IAC 2-6-3(a)(1), the Permittee shall submit by July 1 of each year 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
Indianapolis, Indiana 46204

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

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

C.19 General Record Keeping Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-6] [326 IAC 2-3]

- (a) Records of all required monitoring data, reports and support information required by this permit shall be retained for a period of at least five (5) years from the date of monitoring sample, measurement, report, or application. These records shall be physically present or electronically accessible at the source location for a minimum of three (3) years. The records may be stored elsewhere for the remaining two (2) years as long as they are available upon request. If the Commissioner makes a request for records to the Permittee, the Permittee shall furnish the records to the Commissioner within a reasonable time.
- (b) Unless otherwise specified in this permit, all record keeping requirements not already legally required shall be implemented within ninety (90) days of permit issuance.
- (c) If there is a reasonable possibility that a "project" (as defined in 326 IAC 2-2-1 (qq) and 326 IAC 2-3-1 (ll)) at an existing emissions unit, other than projects at a Clean Unit, which is not part of a "major modification" (as defined in 326 IAC 2-2-1 (ee) and 326 IAC 2-3-1 (z)) may result in significant emissions increase and the Permittee elects to utilize the "projected actual emissions" (as defined in 326 IAC 2-2-1 (rr) and 326 IAC 2-3-1 (mm)), the Permittee shall comply with following:
 - (1) Before beginning actual construction of the "project" (as defined in 326 IAC 2-2-1 (qq) and 326 IAC 2-3-1 (ll)) at an existing emissions unit, document and maintain the following records:
 - (A) A description of the project.
 - (B) Identification of any emissions unit whose emissions of a regulated new source review pollutant could be affected by the project.
 - (C) A description of the applicability test used to determine that the project is not a major modification for any regulated NSR pollutant, including:
 - (i) Baseline actual emissions;
 - (ii) Projected actual emissions;
 - (iii) Amount of emissions excluded under section 326 IAC 2-2-1(rr)(2)(A)(iii) and 326 IAC 2-3-1(mm)(2)(A)(3); and
 - (iv) An explanation for why the amount was excluded, and any netting calculations, if applicable.
 - (2) Monitor the emissions of any regulated NSR pollutant that could increase as a result of the project and that is emitted by any existing emissions unit identified in (1)(B) above; and
 - (3) Calculate and maintain a record of the annual emissions, in tons per year on a calendar year basis, for a period of five (5) years following resumption of regular operations after the change, or for a period of ten (10) years following resumption of regular operations after the change if the project increases the design capacity of or the potential to emit that regulated NSR pollutant at the emissions unit.

C.20 General Reporting Requirements [326 IAC 2-7-5(3)(C)] [326 IAC 2-1.1-11] [326 IAC 2-2] [326 IAC 2-3]

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

Indiana Department of Environmental Management
Compliance Data Section, Office of Air Quality
100 North Senate Avenue
Indianapolis, Indiana 46204

- (c) Unless otherwise specified in this permit, any notice, report, or other submission required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ, on or before the date it is due.
- (d) Unless otherwise specified in this permit, all reports required in Section D of this permit shall be submitted within thirty (30) days of the end of the reporting period. All reports do require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).
- (e) Reporting periods are based on calendar years, unless otherwise specified in this permit. For the purpose of this permit "calendar year" means the twelve (12) month period from January 1 to December 31 inclusive.
- (f) If the Permittee is required to comply with the recordkeeping provisions of (c) in Section C- General Record Keeping Requirements for any "project" (as defined in 326 IAC 2-2-1 (qq) and 326 IAC 2-3-1 (ll)) at an existing emissions unit, and the project meets the following criteria, then the Permittee shall submit a report to IDEM, OAQ:
 - (1) The annual emissions, in tons per year, from the project identified in (c)(1) in Section C- General Record Keeping Requirements exceed the baseline actual emissions, as documented and maintained under Section C- General Record Keeping Requirements (c)(1)(C)(i), by a significant amount, as defined in 326 IAC 2-2-1 (xx) and 326 IAC 2-3-1 (qq), for that regulated NSR pollutant, and
 - (2) The emissions differ from the preconstruction projection as documented and maintained under Section C- General Record Keeping Requirements (c)(1)(C)(ii).
- (g) The report for a project at an existing emissions unit shall be submitted within sixty (60) days after the end of the year and contain the following:
 - (1) The name, address, and telephone number of the major stationary source.
 - (2) The annual emissions calculated in accordance with (c)(2) and (3) in Section C- General Record Keeping Requirements.
 - (3) The emissions calculated under the actual-to-projected actual test stated in 326 IAC 2-2-2(d)(3) and 326 IAC 2-3-2(c)(3).
 - (4) Any other information that the Permittee deems fit to include in this report,

Reports required in this part shall be submitted to:

Indiana Department of Environmental Management
Air Compliance Section, Office of Air Quality
100 North Senate Avenue
Indianapolis, Indiana 46204

- (h) The Permittee shall make the information required to be documented and maintained in accordance with (c) in Section C- General Record Keeping Requirements available for review upon a request for inspection by IDEM, OAQ. The general public may request this information from the IDEM, OAQ, under 326 IAC 17.1.

Stratospheric Ozone Protection

C.21 Compliance with 40 CFR 82 and 326 IAC 22-1

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

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

SECTION D.1 FACILITY OPERATION CONDITIONS

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

- (a) One (1) wheat germ oil extraction system with extractor, distiller and meal desolventizer toaster-dryer, identified as the Crown Extraction System, installed in 1957, with a maximum system throughput of 2,500 pounds wheat germ per hour, producing up to 200 pounds oil and 2,100 pounds defatted wheat germ per hour, utilizing three (3) condensers (primary condensers #1 and #2 are water-cooled; final condenser #3 is refrigerated) for hexane recovery and VOC emissions control, exhausting at one (1) common stack identified as S/V001;
- (b) One (1) wheat germ oil extraction system with extractor, distiller and meal desolventizer toaster-dryer, identified as the French Extraction System, installed in November 2000, with a maximum system throughput of 3,500 pounds wheat germ per hour, producing up to 280 pounds oil and 2,975 pounds defatted wheat germ per hour, utilizing three (3) water-cooled condensers (#4, #5 and #6) for hexane recovery and an in-series mineral oil absorption system for VOC control, exhausting through one (1) stack identified as S/V007 (absorber stack). The extractor has one (1) exhaust stack, identified as S/V006, equipped with a cyclone (#2) for particulate control;
- (c) Two (2) 10,000 gallon virgin hexane storage tanks, identified as HT-1 and HT-2, both installed in 1986; and
- (d) One (1) tank, identified as Work Tank, installed in 2000, with a maximum tank capacity of 4,250 gallons, storing reclaimed hexane.

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

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

D.1.1 New Facilities; General Reduction Requirements [326 IAC 8-1-6]

Pursuant to SSM No. 091-10824-00104, issued on August 12, 1999, and 326 IAC 8-1-6 (New Facilities; General Reduction Requirements), a mineral oil absorption system with a minimum control efficiency of 98% used in conjunction with the French Extractor, and the emission limits specified below, shall be considered the best available control technology (BACT) for the French wheat germ oil extraction and processing plant.

- (a) The VOC (hexane) input usage to the French extractor shall be limited to 9.6 gallons per ton of raw wheat germ based on a 12-month rolling average.
- (b) The Permittee shall install a meal desolventizer dryer and the oil distillation system to reduce residual solvent content in the oil produced.
- (c) This wheat germ oil extraction and processing plant shall also minimize VOC (hexane) losses to the atmosphere by training operators and supervisors of the plant.

D.1.2 Hazardous Air Pollutants (HAPs) [326 IAC 2-4.1-1]

Pursuant to SSM No. 091-10824-00104, issued on August 12, 1999, the hexane input (minus amount reclaimed and reused) to the French Extractor System shall be limited to less than 500 tons per twelve (12) consecutive month period with compliance determined at the end of each month. This limit in conjunction with condition D.1.1 limits the potential to emit hexane to less than 10 tons per year. Therefore, the maximum achievable control technology (MACT) requirement in 326 IAC 2-4.1-1 (New Source Toxics Control) does not apply. Any change or modification from the French Extractor that would increase hexane input (minus amount reclaimed and reused) to more than 500 tons per year, shall obtain approval from the Office of Air Quality before such change can occur.

D.1.3 Particulate [326 IAC 6-3-2]

Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), the permittee shall comply as follows:

- (a) The particulate emission rate from the Crown Extractor System shall not exceed 4.76 pounds per hour when operating at a process weight rate of 2,500 pounds per hour.
- (b) The particulate emission rate from the French extractor shall not exceed 5.97 pounds per hour when operating at a process weight rate of 3,500 pounds per hour.

The pounds per hour allowable particulate emission rates were calculated with the following equation:

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

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

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 and any control devices.

D.1.5 General Provisions Relating to HAPs [326 IAC 20-1][40 CFR Part 63, Subpart A] [Table 12 to 40 CFR Part 63, Subpart EEEE] [40 CFR 63.2398]

- (a) The provisions of 40 CFR Part 63, Subpart A- General Provisions, which are incorporated by reference as 326 IAC 20-1-1, apply to the affected source, except when otherwise specified by Table 12 to 40 CFR Part 63, Subpart EEEE. The Permittee must comply with these requirements on and after February 3, 2004.
- (b) Since the applicable requirements associated with the compliance options are not included and specifically identified in this permit, the permit shield authorized by the B section of this permit in the condition titled Permit Shield, and set out in 326 IAC 2-7-15 does not apply to paragraph (a) of this condition.

D.1.6 National Emission Standards for Hazardous Air Pollutants: Organic Liquids Distribution, Non-Gasoline - Emission Limitations [40 CFR Part 63, Subpart EEEE]

- (a) The provisions of 40 CFR Part 63, Subpart EEEE (National Emission Standards for Hazardous Air Pollutants: Organic Liquids Distribution, Non-Gasoline) apply to the affected source. A copy of this rule is available on the US EPA Air Toxics Website at <http://www.epa.gov/ttn/atw/orgliq/orgliqpg.html>.
- (b) Pursuant to 40 CFR 63.2342(b)(1), the Permittee must comply with the emission limitations, operating limits, and work practice standards for existing affected sources no later than February 5, 2007, except as provided in paragraph (b)(2) of 40 CFR 63.2342.
- (c) Since the applicable requirements associated with the compliance options are not included and specifically identified in this permit, the permit shield authorized by the B section of this permit in the condition titled Permit Shield, and set out in 326 IAC 2-7-15 does not apply to paragraph (a) of this condition.
- (d) Terminology used in this section are defined in the CAA, in 40 CFR Part 63, Section 63.2, and in 40 CFR 63.2406, and are applicable to the affected source.

D.1.7 Organic Liquid Distribution Operations – Affected Source [40 CFR 63.2338]

The following emissions units comprise the affected source that is subject to 40 CFR 63, Subpart EEEE:

- (a) Three (3) storage tanks identified as HT-1 and HT-2, both installed in 1986, and Work Tank installed in 2000, with respective maximum storage capacities of 10,000, 10,000, and 4,250 gallons, with tanks HT-1 and HT-2 storing virgin hexane and Work Tank storing reclaimed hexane.
- (b) Equipment leak components in organic liquids service that are associated with pipelines, except as listed in 40 CFR 63.2338(c)(2), and with storage tanks storing, loading, or unloading organic liquids.

Compliance Determination Requirements

D.1.8 Testing Requirements [326 IAC 2-7-6(1),(6)] [326 IAC 2-1.1-11]

Within one hundred and eighty (180) days after initial startup of the French Extractor System, the Permittee shall perform VOC testing at the mineral oil scrubber in order to demonstrate compliance with the control efficiency requirement of Condition D.1.1, utilizing methods as approved by the Commissioner. This test shall be repeated at least once every five (5) years from the date of this valid compliance demonstration. Testing shall be conducted in accordance with Section C- Performance Testing.

D.1.9 Particulate Control

Pursuant to SSM No. 091-10824-00104, issued on August 12, 1999, and in order to comply with condition D.1.3, the cyclone for particulate control shall be in operation and control emissions from the French extractor at all times that the extractor is in operation.

D.1.10 Volatile Organic Compounds (VOC)

- (a) Pursuant to SSM No. 091-10824-00104, issued on August 12, 1999, the mineral oil absorption system for VOC control shall be in operation at all times when the French Extraction System is in operation.
- (b) All condensers for VOC control shall be in operation at all times when the two (2) wheat germ oil extraction systems are in operation.

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

D.1.11 Visible Emissions Notations

- (a) Visible emission notations of the French extractor cyclone stack (S/V006) exhaust shall be performed once per day during normal daylight operations when exhausting to the atmosphere. A trained employee shall record whether emissions are normal or abnormal.
- (b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.
- (c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.
- (d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.
- (e) If abnormal emissions are observed, the Permittee shall take reasonable response steps

in accordance with Section C - Response to Excursions or Exceedances. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances, shall be considered a deviation from this permit.

D.1.12 New Facilities; General Reduction Requirements Monitoring [326 IAC 8-1-6] [40 CFR 64]

Pursuant to SSM No. 091-10824-00104, issued on August 12, 1999, the Permittee shall comply as follows:

- (a) The mineral oil absorption vent VOC (hexane) emission rate shall be determined daily by measuring the airflow rate and the concentration of the hexane in the air stream. This concentration will be determined by measuring the percent lower explosive limit (LEL). The percent LEL shall be maintained within a range established by the latest compliance stack test. Airflow can be determined by a gas analyzer or by a hand held unit and/or calculations when the gas analyzer proves unreliable.
- (b) The mineral oil temperature to the absorber shall be kept below 70°F or not more than 5°F higher than the ambient wet bulb temperature when the ambient wet bulb temperature is greater than 75°F. When the process is in operation, an electronic data management system (EDMS) shall record the instantaneous temperature on a frequency of not less than once per hour. An as alternate to installing an EDMS, manual readings shall be taken not less than once per hour.
- (c) The mineral oil to the mineral oil stripping column shall be kept at a minimum of 180°F for adequate stripping of the absorbed hexane from the oil. When the process is in operation, an electronic data management system (EDMS) shall record the instantaneous temperature on a frequency of not less than once per hour. An as alternate to installing an EDMS, manual readings shall be taken not less than once per hour.
- (d) The flow rate of the mineral oil absorber shall be monitored and recorded at least once every calendar day when in operation. The flow rate shall be maintained within a range determined by the latest compliance stack test.
- (e) The vent gases from the hexane storage tanks shall be directed to the absorber system.

The above satisfies the requirements of 40 CFR 64 for the mineral oil absorption system for the French Extractor.

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

D.1.13 Notification Requirements [40 CFR 63.2382]

- (a) The Permittee must submit each notification in Subpart SS of 40 CFR Part 63, Table 12 to 40 CFR Part 63, Subpart EEEE, and paragraphs (b) through (d) of 40 CFR 63.2382 that applies to the Permittee. The Permittee must submit these notifications according to the schedule in Table 12 to 40 CFR Part 63, Subpart EEEE and as specified in paragraphs (b) through (d) of 40 CFR 63.2382.
- (b) Initial Notification. The Permittee must submit the Initial Notification no later than June 2, 2004.
- (c) The Permittee must submit the Notification of Intent to conduct a performance test at least 60 calendar days before it is initially scheduled to begin as required in 40 CFR 63.7(b)(1).
- (d) Notification of Compliance Status. If the Permittee are required to conduct a performance test, design evaluation, or other initial compliance demonstration as specified in Table 5, 6, or 7 to 40 CFR Part 63, Subpart EEEE, the Permittee must submit a Notification of Compliance Status. The Notification of Compliance Status must include the information

required in 40 CFR Part 63, Section 63.999(b) and in paragraphs (d)(2)(i) through (viii) of 40 CFR 63.2382.

D.1.14 Requirement to Submit a Significant Permit Modification Application [326 IAC 2-7-12]
[326 IAC 2-7-5]

The Permittee shall submit an application for a significant permit modification to IDEM, OAQ to include information regarding which compliance option or options will be chosen in the Part 70 permit.

- (a) The significant permit modification application shall be consistent with 326 IAC 2-7-12, including information sufficient for IDEM, OAQ to incorporate into the Part 70 permit the applicable requirements of 40 CFR 63, Subpart EEEE, a description of the affected source and activities subject to the standard, and a description of how the Permittee will meet the applicable requirements of the standard.
- (b) The significant permit modification application shall be submitted no later than May 5, 2006.
- (c) The significant permit modification application shall be submitted to:

Indiana Department of Environmental Management
Permits Branch, Office of Air Quality
100 North Senate Avenue
Indianapolis, Indiana 46204

D.1.15 Record Keeping Requirements

- (a) To document compliance with Conditions D.1.1, D.1.2 and D.1.12, the Permittee shall maintain records in accordance with (1) through (6) below. Records maintained for (1) through (6) shall be taken monthly, daily and hourly as indicated and shall be complete and sufficient to establish compliance with the VOC and HAP emission limits established in Conditions D.1.1, D.1.2 and D.1.12. Records necessary to demonstrate compliance shall be available within 30 days of the end of each compliance period.
 - (1) The amount of VOC (hexane) used in gallons per month;
 - (2) The process weight rate in tons of wheat germ processed per month;
 - (3) A log of the dates of use;
 - (4) The hourly mineral oil temperature records for the absorber and stripping column; the daily mineral oil flow rate; and the temperatures and flow rate used to demonstrate compliance during the most recent compliant stack test;
 - (5) The weight of VOC emitted per ton of wheat germ processed from the oil extraction system for each compliance period based on the compliance monitoring conditions of D.1.12; and
 - (6) The weight of hexane emitted from the oil extraction system for each compliance period.
- (b) To document compliance with Condition D.1.11, the Permittee shall maintain records of daily visible emission notations of the cyclone stack exhaust.
- (c) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

D.1.16 Reporting Requirements

A quarterly summary of the information to document compliance with Conditions D.1.1(a) and D.1.2 shall be submitted to the address listed in Section C - General Reporting Requirements, of this permit, using the reporting forms located at the end of this permit, or their equivalent, within thirty (30) days after the end of the quarter being reported. The report submitted by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

SECTION D.2 FACILITY OPERATION CONDITIONS

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

The following insignificant activity which is specifically regulated, as defined in 326 IAC 2-7-1(21):

- (a) Natural gas-fired combustion facilities with heat input equal to or less than ten (10) million (MM) British thermal units (Btu) per hour:
 - (1) Boiler 1, rated at 6.695 MMBtu/hr, constructed in 1956; [326 IAC 6-2-3]
 - (2) Boiler 2, rated at 5.0 MMBtu/hr, constructed in 1980; [326 IAC 6-2-3]
- (b) The following activities with emissions equal to or less than insignificant thresholds:
 - (1) One (1) set of raw wheat germ storage silos with a nominal capacity of 20,000 cubic feet, with potential uncontrolled emissions of particulate matter with an aerodynamic diameter less than or equal to ten (10) micrometers (PM10) of less than five (5) pounds per hour or twenty-five (25) pounds per day, exhausting at stack S/V002; [326 IAC 6-3-2(e)]
 - (2) One (1) surge bin processing up to 2,975 pounds defatted wheat germ per hour, with potential uncontrolled emissions of particulate matter with an aerodynamic diameter less than or equal to ten (10) micrometers (PM10) of less than five (5) pounds per hour or twenty-five (25) pounds per day, controlled by a cyclone (#1) and exhausting at stack S/V005; [326 IAC 6-3-2(e)]
 - (3) One (1) milling and packaging system processing up to 2,975 pounds defatted wheat germ per hour, with potential uncontrolled emissions of particulate matter with an aerodynamic diameter less than or equal to ten (10) micrometers (PM10) of less than five (5) pounds per hour or twenty-five (25) pounds per day, controlled by a dust collector (#1) and exhausting at stack S/V003; [326 IAC 6-3-2(e)]
 - (4) One (1) set of defatted wheat germ storage silos with a nominal capacity of 18,000 cubic feet, with potential uncontrolled emissions of particulate matter with an aerodynamic diameter less than or equal to ten (10) micrometers (PM10) of less than five (5) pounds per hour or twenty-five (25) pounds per day, controlled by a dust collector (#2) and exhausting at stack SV/004. [326 IAC 6-3-2(e)]

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

Boilers Natural Gas-Fired Boilers Less Than 10 MMBtu/hr

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

D.2.1 Particulate [326 IAC 6-2-3]

- (a) Pursuant to 326 IAC 6-2-3(d) (Particulate Matter Emission Limitations for Sources of Indirect Heating), PM emissions from Boiler 1, as a 6.695 MMBtu per hour heat input indirect heating unit which began operation on or before June 8, 1972, shall be limited to 0.8 pounds per MMBtu heat input.
- (b) Pursuant to 326 IAC 6-2-3(e) (Particulate Matter Emission Limitations for Sources of Indirect Heating), PM emissions from Boiler 2, as a 5.0 MMBtu per hour heat input indirect heating unit which began operation after June 8, 1972, and before September 21, 1983, shall be limited to 0.6 pounds per MMBtu heat input.

Process Weight Activities

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

D.2.2 Particulate [326 IAC 6-3-2]

Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), the particulate emission rate from the facilities listed below, as insignificant activities, shall be limited as specified when operating at the respective process weight rate:

Emission Unit/Activity	Process Weight Rate (lbs/hr)	Allowable Particulate Emission Rate (326 IAC 6-3-2) (lb/hr)
Raw wheat germ storage silos	22,500	20.75
Defatted wheat germ surge bin	2,975	5.35
Defatted wheat germ milling/packaging system	2,975	5.35
Defatted wheat germ storage silos	2,975	5.35
Meal loadout	2,975	5.35

The pounds per hour allowable particulate emission rates were calculated with the following equation:

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

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

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

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

**PART 70 OPERATING PERMIT
CERTIFICATION**

Source Name: Vitamins, Inc.
Source Address: 1700 E US Highway 12, Michigan City, IN 46360
Mailing Address: 1700 E US Highway 12, Michigan City, IN 46360
Part 70 Permit No.: 091-20821-00104

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

Please check what document is being certified:

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

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

Signature:

Printed Name:

Title/Position:

Phone:

Date:

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE BRANCH
100 North Senate Avenue
Indianapolis, Indiana 46204
Phone: 317-233-5674
Fax: 317-233-5967**

**PART 70 OPERATING PERMIT
EMERGENCY OCCURRENCE REPORT**

Source Name: Vitamins, Inc.
Source Address: 1700 E US Highway 12, Michigan City, IN 46360
Mailing Address: 1700 E US Highway 12, Michigan City, IN 46360
Part 70 Permit No.: 091-20821-00104

This form consists of 2 pages

Page 1 of 2

- | |
|--|
| <input type="checkbox"/> This is an emergency as defined in 326 IAC 2-7-1(12) |
| X The Permittee must notify the Office of Air Quality (OAQ), within four (4) business hours (1-800-451-6027 or 317-233-5674, ask for Compliance Section); and |
| X The Permittee must submit notice in writing or by facsimile within two (2) working days (Facsimile Number: 317-233-5967), and follow the other requirements of 326 IAC 2-7-16. |

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

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

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

Page 2 of 2

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

Form Completed by: _____

Title / Position: _____

Date: _____

Phone: _____

A certification is not required for this report.

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

Part 70 Quarterly Report

Source Name: Vitamins, Inc.
Source Address: 1700 E US Highway 12, Michigan City, IN 46360
Mailing Address: 1700 E US Highway 12, Michigan City, IN 46360
Part 70 Permit No.: T091-20821-00104
Facility: French Extractor
Parameter: VOC (hexane)
Limit: VOC (hexane) input usage limited to 9.6 gallons per ton of raw wheat germ processed, based on a 12-month rolling average

YEAR: _____

Month	VOC Usage this Month (gal/ton)	VOC Usage Previous 11 Months (gal/ton)	12 Month Average VOC Usage (gal/ton)
Month 1			
Month 2			
Month 3			

- No deviation occurred in this month.
 Deviation/s occurred in this month.
Deviation has been reported on: _____

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

Attach a signed certification to complete this report.

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

Part 70 Quarterly Report

Source Name: Vitamins, Inc.
Source Address: 1700 E US Highway 12, Michigan City, IN 46360
Mailing Address: 1700 E US Highway 12, Michigan City, IN 46360
Part 70 Permit No.: T091-20821-00104
Facility: French Extractor
Parameter: Single hazardous air pollutant (hexane)
Limit: Hexane input is limited to less than 500 tons per twelve (12) consecutive month period

YEAR: _____

Month	Hexane Input this Month (tons)	Hexane Input Previous 11 Months (tons)	12 Month Total Hexane Input (tons)
Month 1			
Month 2			
Month 3			

- No deviation occurred in this month.
 Deviation/s occurred in this month.
Deviation has been reported on: _____

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

Attach a signed certification to complete this report.

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

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

Source Name: Vitamins, Inc.
 Source Address: 1700 E US Highway 12, Michigan City, IN 46360
 Mailing Address: 1700 E US Highway 12, Michigan City, IN 46360
 Part 70 Permit No.: T091-20821-00104

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

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

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

Form Completed By: _____

Title/Position: _____

Date: _____

Phone: _____

Attach a signed certification to complete this report.

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

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

Source Background and Description

Source Name:	Vitamins, Inc.
Source Location:	1700 East US 12, Michigan City, Indiana 46360
County:	LaPorte
SIC Code:	2076, 2041
Operation Permit No.:	T091-7767-00104
Operation Permit Issuance Date:	November 17, 2000
Permit Renewal No.:	T091-20821-00104
Permit Reviewer:	Michael Hirtler/EVP

The Office of Air Quality (OAQ) has reviewed a Part 70 Operating Permit Renewal application from Vitamins, Inc. relating to the operation of a wheat germ oil extraction and processing plant.

Permitted Emission Units and Pollution Control Equipment

The source consists of the following permitted emission units and pollution control devices:

- (a) One (1) wheat germ oil extraction system with extractor, distiller and meal desolventizer toaster-dryer, identified as the Crown Extraction System, installed in 1957, with a maximum system throughput of 2,500 pounds wheat germ per hour, producing up to 200 pounds oil and 2,100 pounds defatted wheat germ per hour, utilizing three (3) condensers (primary condensers #1 and #2 are water-cooled; final condenser #3 is refrigerated) for hexane recovery and VOC emissions control, exhausting at one (1) common stack identified as S/V001;
- (b) One (1) wheat germ oil extraction system with extractor, distiller and meal desolventizer toaster-dryer, identified as the French Extraction System, installed in November 2000, with a maximum system throughput of 3,500 pounds wheat germ per hour, producing up to 280 pounds oil and 2,975 pounds defatted wheat germ per hour, utilizing three (3) water-cooled condensers (#4, #5 and #6) for hexane recovery and an in-series mineral oil absorption system for VOC control, exhausting through one (1) stack identified as S/V007 (absorber stack). The extractor has one (1) exhaust stack, identified as S/V006, equipped with a cyclone (#2) for particulate control;
- (c) Two (2) 10,000 gallon virgin hexane storage tanks, identified as HT-1 and HT-2, both installed in 1986; and
- (d) One (1) tank, identified as Work Tank, installed in 2000, with a maximum tank capacity of 4,250 gallons, storing reclaimed hexane.

Unpermitted Emission Units and Pollution Control Equipment

There are no unpermitted emission units operating at this source during this review process.

New Emission Units and Pollution Control Equipment Receiving Advanced Source Modification Approval

There are no new facilities proposed at this source during this review process.

Insignificant Activities

The source also consists of the following insignificant activities, as defined in 326 IAC 2-7-1(21):

- (a) Natural gas-fired combustion facilities with heat input equal to or less than ten (10) million (MM) British thermal units (Btu) per hour:
 - (1) Boiler 1, rated at 6.695 MMBtu/hr, constructed in 1956; [326 IAC 6-2-3]
 - (2) Boiler 2, rated at 5.0 MMBtu/hr, constructed in 1980; [326 IAC 6-2-3]
- (b) The following activities with emissions equal to or less than insignificant thresholds:
 - (1) One (1) set of raw wheat germ storage silos with a nominal capacity of 20,000 cubic feet, with potential uncontrolled emissions of particulate matter with an aerodynamic diameter less than or equal to ten (10) micrometers (PM10) of less than five (5) pounds per hour or twenty-five (25) pounds per day, exhausting at stack S/V002; [326 IAC 6-3-2(e)]
 - (2) One (1) surge bin processing up to 2,975 pounds defatted wheat germ per hour, with potential uncontrolled emissions of particulate matter with an aerodynamic diameter less than or equal to ten (10) micrometers (PM10) of less than five (5) pounds per hour or twenty-five (25) pounds per day, controlled by a cyclone (#1) and exhausting at stack S/V005; [326 IAC 6-3-2(e)]
 - (3) One (1) milling and packaging system processing up to 2,975 pounds defatted wheat germ per hour, with potential uncontrolled emissions of particulate matter with an aerodynamic diameter less than or equal to ten (10) micrometers (PM10) of less than five (5) pounds per hour or twenty-five (25) pounds per day, controlled by a dust collector (#1) and exhausting at stack S/V003; [326 IAC 6-3-2(e)]
 - (4) One (1) set of defatted wheat germ storage silos with a nominal capacity of 18,000 cubic feet, with potential uncontrolled emissions of particulate matter with an aerodynamic diameter less than or equal to ten (10) micrometers (PM10) of less than five (5) pounds per hour or twenty-five (25) pounds per day, controlled by a dust collector (#2) and exhausting at stack SV/004; [326 IAC 6-3-2(e)]
- (c) One (1) crude oil (wheat germ oil) storage tank farm, consisting of nine (9) storage tanks having capacities of ranging from 1,000 gallons to 10,000 gallons. These storage tanks are a trivial activity pursuant to 326 IAC 2-7-1(40)(J)(iii); and
- (d) One (1) refined oil (wheat germ oil) storage tank farm, consisting of five (5) storage tanks each having a capacity of 8,400 gallons. These storage tanks are a trivial activity pursuant to 326 IAC 2-7-1(40)(J)(iii).

Existing Approvals

The source has constructed or has been operating under the following previous approvals:

- (a) Part 70 No. T091-7767-00104, issued on November 17, 2000; and

- (b) First Administrative Amendment No. 091-19383-00104, issued on October 29, 2004.

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

The following terms and conditions from original Part 70 No. T091-7767-00104, issued on November 17, 2000, have been revised in this Part 70 permit:

- (a) Condition C.16, Compliance Monitoring Plan - Failure to Take Response Steps

Reason revised: IDEM has reconsidered this requirement. The Permittee will still be required to take reasonable response steps when a compliance monitoring parameter is determined to be out of range or abnormal. Replacing this requirement with a requirement to take reasonable response steps will ensure that the control equipment is returned to proper operation as soon as practicable, while still allowing the Permittee the flexibility to respond to situations that were not anticipated. The Section D conditions that refer to this condition have been revised to reflect the new condition title, as reflected in the permit.

- (b) Conditions D.1.9, Cyclone Inspections and D.1.10, Cyclone Failure Detection

Reason deleted: IDEM has determined that it is the Permittee's responsibility to include routine control device inspection requirements in the applicable preventive maintenance plan. Since the Permittee is in the best position to determine the appropriate frequency of control device inspections and the details regarding which components of the control device should be inspected, the conditions requiring control device inspections have been removed from the permit. In addition, the requirement to keep records of the inspections has been removed.

- (c) Condition D.1.3, Particulate Matter (PM)

Reason revised: This condition is revised to include reference to the Crown Extraction system. The Crown and French Extraction systems are processes listed in the existing permit that are subject to the requirements contained in Section D.1, including the particulate emission limitations pursuant to 326 IAC 6-3-2. However, the Crown system was inadvertently omitted from this condition and only the French Extraction system was referenced in D.1.3. The condition is revised in this renewal permit to include both processes. The corresponding allowable particulate emission rates for both processes are discussed under the State Rule Applicability section of this document.

- (d) Condition D.1.11(b), New Facilities; General Reduction Requirements Monitoring

Reason revised: Condition D.1.11(b) was a condition of SSM No. 091-10824-00104, issued on August 12, 1999. It has been determined during this review that this condition was mistakenly copied from another permit for a similar source that utilized a cooler and a dryer cyclone. The French Extraction system at this source does not use a desolventizer cooler, nor does the system's desolventizer toaster-dryer have a dedicated exhaust stack with cyclone. Instead, emissions from the system are piped directly to two (2) condensers (in series) and then to the mineral oil scrubber. This condition is irrelevant and is not included in the renewal permit.

D.1.11 New Facilities; General Reduction Requirements Monitoring [326 IAC 8-1-6]

- (b) ~~The hexane emission rate from the dryer cyclone and cooler cyclone shall be determined by laboratory test if the lower meal temperature of the desolventizer is below 215°F. If the meal temperature of the desolventizer is above 215°F, the hexane emission rate will~~

~~be based on the compliance test results. When the process is in operation, an electronic data management system (EDMS) shall record the instantaneous temperature on a frequency of not less than once per hour. An alternate to installing an EDMS, manual readings shall be taken not less than once per hour.~~

(e) Condition D.1.5, Testing Requirements

Reason revised: SSM No. 091-10824-00104, issued on August 12, 1999, specified that an initial performance test of the French Extractor system's VOC control equipment (i.e., the mineral oil scrubber) was to be conducted within 30 to 36 months of SSM issuance. Thereafter, the SSM required repeat testing of this system at least once every five years. This notwithstanding, the initial Part 70 permit, which was issued about one year after the SSM, contained a modified test condition that eliminated both the date by which the Permittee was required to perform the initial test and the requirement for repeat testing. Review of the initial Part 70 permit file has provided no basis for these changes, and no test has been performed to date on the scrubber. During the most recent inspection of this plant (June 2005), IDEM confirmed that the French Extractor system and related mineral oil scrubber have not operated since their November 2000 installation, except for trial runs during 2001, as the plant continues to meet production obligations through the operation of the Crown Extraction System. As such, IDEM has decided that the test condition in this permit renewal shall require the Permittee to notify IDEM prior to commencing operation of the French Extractor and to conduct performance testing of the control device within 180 days after initial startup.

Enforcement Issue

There are no enforcement actions pending.

Recommendation

The staff recommends to the Commissioner that the Part 70 permit 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 administratively complete Part 70 permit renewal application for the purposes of this review was received on February 18, 2005. Additional information was received on May 25, 2005, June 8, 2005, July 14, 2005, and December 13, 2005.

There was no notice of completeness letter mailed to the Permittee.

Emission Calculations

See Appendix A of this document for detailed emission calculations (six (6) pages).

Potential to Emit of the Source

Pursuant to 326 IAC 2-1.1-1(16), Potential to Emit is defined as "the maximum capacity of a stationary source to emit any air pollutant under its physical and operational design. Any physical or operational limitation on the capacity of a source to emit an air pollutant, including air pollution control equipment and restrictions on hours of operation or type or amount of material combusted, stored, or processed shall be treated as part of its design if the limitation is enforceable by the U. S. EPA."

The source was issued a Part 70 Operating Permit on November 17, 2000. The table below summarizes the potential to emit, reflecting all limits, of the emission units. Any control equipment is considered enforceable only after issuance of the original Part 70 operating Permit and only to the extent that the effect of the control equipment is made practically enforceable in the permit.

Process/emission unit	Potential to Emit (tons/year)						
	PM	PM-10	SO ₂	VOC	CO	NO _x	HAPs
Crown Wheat Germ Oil Extraction System	20.85	20.85	0.0	1323	0.0	0.0	1323 (hexane)
French Wheat Germ Oil Extraction System	26.13	26.13	0.0	<10 ⁽¹⁾	0.0	0.0	<10 (hexane) ⁽¹⁾
Natural Gas Fired Boilers B1 and B2	0.10	0.39	0.03	0.28	4.30	5.12	0.1
Insignificant activities ⁽²⁾	5.88	2.99	0.0	0.0	0.0	0.0	0.0
Total Potential to Emit	52.96	50.36	0.03	<1333.3	4.30	5.12	>10 (single) >25 (total)

1. Per Condition D.1.2, single HAP (hexane) PTE is limited to less than 10 tons per year. This limit is consistent with D.1.1 which limits VOC (as hexane) to 9.6 lb/ton wheat germ processed, where the maximum production rate of 42 tons per day equates 8.2 tons VOC per year after enforceable scrubber control operating requirements.
 2. Includes wheat germ (raw and processed) storage and handling.

- (a) The potential to emit (as defined in 326 IAC 2-7-1(29)) of volatile organic compounds (VOC) are equal to or greater than 100 tons per year. Therefore, the source is subject to the provisions of 326 IAC 2-7.
- (b) The potential to emit (as defined in 326 IAC 2-7-1(29)) of any single HAP is equal to or greater than ten (10) tons per year and the potential to emit (as defined in 326 IAC 2-7-1(29)) of the combination of HAPs is equal to or greater than twenty-five (25) tons per year. Therefore, the source is subject to the provisions of 326 IAC 2-7.
- (c) **Fugitive Emissions**
 Since this type of operation is not one of the twenty-eight (28) listed source categories under 326 IAC 2-2 and since there are no applicable New Source Performance Standards that were in effect on August 7, 1980, the fugitive particulate matter (PM) and volatile organic compound (VOC) emissions are not counted toward determination of PSD and Emission Offset applicability.

Actual Emissions

The following table shows the actual emissions from the source. This information reflects the 2002 OAQ emission data, except for the HAP emissions which reflects 2002 toxic release inventory information reported by the permittee.

Pollutant	Status
PM	not reported
PM-10	not reported
SO ₂	not reported
VOC	103
CO	not reported
NO _x	not reported
HAP (hexane)	103

County Attainment Status

The source is located in LaPorte County.

Pollutant	Status
PM2.5	Attainment
PM-10	Attainment
SO ₂	Attainment
NO ₂	Attainment
1-hour Ozone	Attainment
8-hour Ozone	Nonattainment
CO	Attainment
Lead	Attainment

- (a) 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 the ozone standards. LaPorte County has been designated as nonattainment for the 8-hour ozone standard. Therefore, VOC and NO_x emissions were reviewed pursuant to the requirements for Emission Offset, 326 IAC 2-3. See the State Rule Applicability for the source section.
- (b) LaPorte County has been classified as unclassifiable or attainment for PM2.5. U.S.EPA has not yet established the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2 for PM2.5 emissions. Therefore, until the U.S.EPA adopts specific provisions for PSD review for PM2.5 emissions, it has directed states to regulate PM10 emissions as surrogate for PM2.5 emissions. See the State Rule Applicability for the source section.
- (c) LaPorte County has been classified as attainment or unclassifiable in Indiana for all other criteria pollutants. Therefore, these emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2. See the State Rule Applicability for the source section.

Part 70 Permit Conditions

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

- (a) Emission limitations and standards, including those operational requirements and limitations that assure compliance with all applicable requirements at the time of issuance of Part 70 permits.

- (b) Monitoring and related record keeping requirements which assure that all reasonable information is provided to evaluate continuous compliance with the applicable requirements.

Federal Rule Applicability

- (a) The requirements of 40 CFR Part 64, Compliance Assurance Monitoring, apply to a pollutant-specific emissions unit (PSEU), as defined in 40 CFR 64.1, at a major source that is required to obtain a Part 70 or 71 permit if the PSEU meets the following criteria:
 - (1) the unit is subject to an emission limitation or standard for an applicable regulated air pollutant,
 - (2) the unit uses a control device as defined in 40 CFR 64.1 to comply with that emission limitation or standard, and
 - (3) the unit has a potential to emit (PTE) before controls equal to or greater than 100 percent of the amount (tons per year) of the pollutant required for a source to classified as a Part 70 major source.

The Crown Wheat Germ Extractor has the PTE at greater than 100% of the major source threshold for VOC and HAP (hexane). However, there are no emission limitations applicable to this unit that was installed in 1957 and CAM does not apply.

The French Wheat Germ Extractor has the PTE at greater than 100% of the major source threshold for VOC and HAP (hexane), and this system has applicable emission limitations and uses a control device to achieve compliance. Although this source is subject to 40 CFR 63, Subpart EEEE (Organic Liquids Distribution), as discussed below, the requirements of Subpart EEEE do not directly limit or restrict emissions from the extractor. Therefore, 40 CFR 64.2(b)(1)(i) for a Section 112 emission limitation issued after November 15, 1990 does not exempt the extraction unit from the requirements of Part 64. The permittee has submitted a CAM plan as part of the permit renewal application, and monitoring of this pollutant-specific emission unit will be conducted pursuant to 40 CFR 64. The specific monitoring requirements for the associated extractor are listed under the "Compliance Requirement" section.

There are no other emission units at this source that meet the above stated rule applicability criteria. Therefore, the requirements of 40 CFR Part 64, Compliance Assurance Monitoring, are not included in this permit for any other emission units.

- (b) New Source Performance Standards, 326 IAC 12, (40 CFR Part 60):
 - (1) The two (2) natural gas fired boilers, B1 and B2, respectively installed in 1956 and 1980, with maximum heat input rates of 6.695 and 5.0 MMBtu/hr, are not subject to the requirements of the New Source Performance Standard, 326 IAC 12, (40 CFR 60.40, Subpart Dc), because the boilers' maximum heat input rates are less than the rule applicability threshold of 10 MMBtu/hr.
 - (2) This source is not subject to the requirements of the New Source Performance Standard, 326 IAC 12, (40 CFR 60.300, Subpart DD), since wheat germ is a consumer product and is not a specifically listed grain.
 - (3) The two (2) 10,000 gallon hexane storage tanks and the one (1) 4,250 gallon hexane storage tank, respectively identified as HT-1, HT-2 and Work Tank, are not subject to the requirements of 326 IAC 12, (40 CFR Parts 60.110, 110a - 115a or 110b - 117b, as Subparts K, Ka, and Kb, respectively), since the tanks have

storage capacities below the minimum applicability threshold for the three rules, i.e., 40 cubic meters (10,568 gallons).

There are no New Source Performance Standards (NSPS) (326 IAC 12 and 40 CFR Part 60) included in this review.

- (c) There are no National Emission Standards for Hazardous Air Pollutants (NESHAP)(326 IAC 14 and 40 CFR Part 61) included in this review.
- (d) The requirements of the *National Emission Standards for Hazardous Air Pollutants: Organic Liquids Distribution (Non-Gasoline)*, 40 CFR 63 Subpart EEEE, are applicable to this existing major source of HAPs. The affected source is an organic liquid distribution (OLD) operation. Pursuant to 40 CFR 63.2338, the following emissions units comprise the affected source that is subject to 40 CFR 63, Subpart EEEE:
- (1) All storage tanks storing organic liquids.
 - (2) All transfer racks at which organic liquids are loaded into or unloaded out of transport vehicles and/or containers.
 - (3) All equipment leak components in organic liquids service that are associated with pipelines, except as provided in §63.2338(c)(2), and with storage tanks and transfer racks storing, loading, or unloading organic liquids.
 - (4) All transport vehicles while they are loading or unloading organic liquids at transfer racks.

The emission limitations, operating limits, and work practice standards of §63.2346(a) are applicable to this source only to the extent specified below, based on the criteria specified at §63.2346(a) and Table 2 of Subpart EEEE:

- (1) *All storage tanks storing organic liquids:* The three (3) storage tanks identified as HT-1, HT-2, and Work Tank, with respective maximum storage capacities of 10,000, 10,000, and 4,250 gallons, with tanks HT-1 and HT-2 storing virgin hexane and Work Tank storing reclaimed hexane, are not subject to §63.2346(a) since the stored organic liquid (hexane) has an annual average true vapor pressure of less than 4.0 psia; and the Work Tank is below the 5,000 gallon threshold for §63.2346(a) to apply. Wheat germ oil produced at this plant is not considered as an organic liquid and, therefore, the wheat germ oil storage tanks are not subject to Subpart EEEE.
- (2) *All transfer racks at which organic liquids are loaded into or unloaded out of transport vehicles and/or containers:* This source purchases about 50,000 gallons of virgin hexane annually to replenish hexane loss from product retention and vaporization loss to the atmosphere. The only means of organic liquid (i.e., hexane) loading/unloading at this source is via pumps mounted on the transport vehicles. The pumps are considered part of the transport vehicles and are not transfer racks. Therefore, this category of affect source under Subpart EEEE is not included in this permit.
- (3) *All equipment leak components in organic liquids service:* Equipment components at this source are not subject to §63.2346(c) since there is no affected equipment that meets the applicability criteria of §63.2346(a), as discussed in paragraph (1) above, or §63.2346(b), as discussed in paragraph (2) above.

- (4) *All transport vehicles while they are loading or unloading organic liquids at transfer racks:* As indicated in paragraph (2) above, the source does not have transfer racks so this provision of Subpart EEEE is not included in this permit.
- (5) Although the storage tanks and equipment leak components discussed in paragraphs (1) and (3) above are not subject to the respective limitations of §63.2346(a) and §63.2346(c), these emission units are still Subpart EEEE affected sources and are subject to §63.2346(h) which requires these emission units to comply only with the reporting requirements of §63.2386(d).

As an existing affected source having no floating roof storage tanks, the permittee shall comply with the applicable requirements of Subpart EEEE according to the schedule as follows:

- (1) Pursuant to 40 CFR 63.2342(b)(1), the Permittee must comply with the emission limitations, operating limits, and work practice standards for existing affected sources no later than February 5, 2007.

Since the compliance date for this applicable rule is not until February 5, 2007, the specific details of the rule and how the Permittee will demonstrate compliance are not provided in the permit. The Permittee shall submit an application for a significant permit modification nine months prior to the compliance date for the MACT that will specify the option or options for the emission limitations and standards and methods for determining compliance chosen by the Permittee. At that time, IDEM, OAQ will include the specific details of the rule and how the Permittee will demonstrate compliance. In addition, pursuant to 40 CFR 63, Subpart EEEE, the Permittee shall submit:

- (1) The Permittee must submit each notification in Subpart SS of 40 CFR Part 63, Table 12 to 40 CFR Part 63, Subpart EEEE, and paragraphs (b) through (d) of 40 CFR 63.2382 that applies to the Permittee. The Permittee must submit these notifications according to the schedule in Table 12 to 40 CFR Part 63, Subpart EEEE and as specified in paragraphs (b) through (d) of 40 CFR 63.2382.
- (2) Initial Notification. The Permittee must submit the Initial Notification no later than June 2, 2004.
- (3) The Permittee must submit the Notification of Intent to conduct a performance test at least 60 calendar days before it is initially scheduled to begin as required in 40 CFR 63.7(b)(1).
- (4) Notification of Compliance Status. If the Permittee are required to conduct a performance test, design evaluation, or other initial compliance demonstration as specified in Table 5, 6, or 7 to 40 CFR Part 63, Subpart EEEE, the Permittee must submit a Notification of Compliance Status. The Notification of Compliance Status must include the information required in 40 CFR Part 63, Section 63.999(b) and in 40 CFR 63.2382, paragraphs (d)(2)(i) through (viii).
- (e) The requirements of the *National Emission Standards for Hazardous Air Pollutants: Solvent Extraction for Vegetable Oil Production*, 40 CFR 63 Subpart GGGG, are not included in this permit because wheat germ is not one of the eight listed oil seeds subject to this rule.

- (f) The natural gas fired Boiler 1, rated at 6.695 MMBtu/hr, and natural gas fired Boiler 2, rated at 5.0 MMBtu/hr, are not subject to the requirements of the *National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers and Process Heaters*, 40 CFR 63, Subpart DDDDD. Boiler Nos. 1 and 2 are part of the affected source for the small gaseous fuel subcategory, as defined by 40 CFR 63.7575, because they have a rated capacity of less than or equal to 10 million British thermal units per hour heat input. However, pursuant to 40 CFR 63.7506(c), there are no applicable requirements from 40 CFR 63, Subpart DDDDD and 40 CFR 63, Subpart A for the affected sources for the small gaseous fuel subcategory.

State Rule Applicability – Entire Source

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

This source was constructed in 1957. The source is not in one of the 28 listed source categories, and the uncontrolled potential to emit of VOC for the source is greater than 250 tons per year (tpy). This source is a major stationary source under the PSD permit review rules. This notwithstanding, this major source was constructed prior to the PSD rule applicability date of August 7, 1977 and the requirements of 326 IAC 2-2, including a determination of Best Available Control Technology (BACT) requirements, were not applicable.

Significant Source Modification (SSM) No. 091-10824-00104 was issued to the Permittee for the French Extraction system on August 12, 1999. The modification approval restricted VOC emissions to less than 10 tpy (organic HAP limitation for hexane), which is below the 40 tpy major modification threshold for PSD rule applicability. The modification approval occurred when LaPorte County was an attainment area for the 1-hour ozone standard. As discussed below, LaPorte County was re-designated to an ozone nonattainment area for the 8-hour ozone standard effective June 15, 2004. Therefore, this source is now a major stationary source in a nonattainment area because VOC emissions exceed 100 tpy. Since this plant is a major source in a nonattainment area, any future projects shall be reviewed pursuant to the requirements of 326 IAC 2-2 and 326 IAC 2-3. No modifications have occurred at this source since SSM No. 091-10824-00104 was issued on August 12, 1999.

326 IAC 2-3 (Emission Offset)

This existing source is located in LaPorte County which was redesignated on June 15, 2004 as a basic nonattainment area for the 8 hour ozone standard. Upon this redesignation, the source became a major source because it has a potential to emit of VOC at greater than the nonattainment 326 IAC 2-3 rule applicability threshold of 100 tons per year. As such, any modification made to this source after June 15, 2004 shall be reviewed pursuant to the requirements of Emission Offset for emissions of the ozone precursor pollutants, VOC and NOx. No modifications have occurred at this source since June 15, 2004.

326 IAC 2-6 (Emission Reporting)

Since this source is required to have an operating permit under 326 IAC 2-7, Part 70 Permit Program, this source is subject to 326 IAC 2-6 (Emission Reporting). The source also has potential to emit greater than or equal to 250 tons per year of volatile organic compounds; therefore, an emission statement covering the previous calendar year must be submitted by July 1 annually. The emission statement shall contain, at a minimum, the information specified in 326 IAC 2-6-4.

326 IAC 5-1 (Opacity Limitations)

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

- (a) Opacity shall not exceed an average of forty percent (40%) in any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.

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

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

The operation of both the Crown and the French Extraction systems will emit greater than 10 tons per year of a single HAP or 25 tons per year of a combination of HAPs. The Crown Extraction system was installed in 1957, prior to July 27, 1997 and, therefore, the requirements of 326 IAC 2-4.1 do not apply to this facility.

The French Extraction system was approved for installation as SSM No. 091-10824-00104 on August 12, 1999. Pursuant to this approval, the amount of hexane input to the system is limited such that, when combined with the enforceable operating requirements for the related mineral oil scrubber, hexane emissions are limited to less than 10 tons per year. Therefore, pursuant to SSM No. 10824, the requirements of 326 IAC 2-4.1 do not apply to the French Extraction system.

State Rule Applicability – Individual Facilities

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

- (a) Pursuant to 326 IAC 6-2-3 (Particulate Matter Emission Limitations for Sources of Indirect Heating), PM emissions from Boiler B1, as an indirect heating unit which began operation on or before June 8, 1972, shall be limited to 0.8 pounds per MMBtu heat input determined as the **lesser** of the value *Pt* computed with the following formula,

$$Pt = (C*a*h)/(76.5*Q^{0.75}*N^{0.25})$$

where: *Pt* = maximum allowable particulate matter (PM) emitted per MMBtu heat input
C = maximum ground level concentration (50 µg/m³, for a period not to exceed 60 min.)
Q = total source maximum indirect heat input (6.695 MMBtu/hr for Boiler B1)
N = number of stacks in the fuel burning operation (i.e., 1)
a = plume rise factor (0.67, for *Q* < 1,000)
h = average stack height in feet (20 feet)

or eight-tenths (0.8) pounds per MMBtu, for a facility which was existing and in operation on or before June 8, 1972.

Pt for this indirect heating facility is computed as follows:

$$Pt = (50*0.67*20)/(76.5*6.695^{0.75}*1^{0.25}) = 2.10 \text{ lbs PM/MMBtu}$$

Therefore, PM emissions from Boiler B1, constructed in 1956 and rated at 6.695 MMBtu per hour heat input, shall be limited to 0.8 pounds per MMBtu heat input. Based on the emission calculations (page 2 of 6, Appendix A), Boiler B1 has potential PM emissions of 0.0019 lb/MMBtu and will comply with this emission limit.

- (b) Pursuant to 326 IAC 6-2-3 (Particulate Matter Emission Limitations for Sources of Indirect Heating), PM emissions from Boiler B2, as an indirect heating unit which began operation after June 8, 1972, and before September 21, 1983, shall be limited to 0.6 pounds per MMBtu heat input determined as the **lesser** of the value *Pt* computed with the following formula,

$$Pt = (C*a*h)/(76.5*Q^{0.75}*N^{0.25})$$

where: *Pt* = maximum allowable particulate matter (PM) emitted per MMBtu heat input
C = maximum ground level concentration (50 µg/m³, for a period not to exceed 60 min.)
Q = total source maximum indirect heat input (Boiler B1 + Boiler B2 = 6.696 MMBtu/hr + 5.0 MMBtu/hr = 11.695 MMBtu/hr)
N = number of stacks in the fuel burning operation (i.e., 2)
a = plume rise factor (0.67, for *Q* < 1,000)
h = average stack height in feet (20 feet)

or six-tenths (0.6) pounds per MMBtu, for a facility with heat input less than 250 MMBtu/hr and which began operation after June 8, 1972.

Pt for this indirect heating facility is computed as follows:

$$Pt = (50*0.67*20)/(76.5*11.695^{0.75}*2^{0.25}) = 1.16 \text{ lbs PM/MMBtu}$$

Therefore, PM emissions from Boiler B2, constructed in 1980 and rated at 5.0 MMBtu per hour heat input, shall be limited to 0.6 lb/MMBtu heat input. Based on the emission calculations (page 2 of 6, Appendix A), Boiler B2 has potential PM emissions of 0.0019 lb/MMBtu and will comply with this emission limit.

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 French extractor shall not exceed 5.97 pounds per hour when operating at a process weight rate of 3,500 pounds per hour.
- (b) Pursuant to 326 IAC 6-3-2, the particulate emission rate from the Crown Extractor System shall not exceed 4.76 pounds per hour when operating at a process weight rate of 2,500 pounds per hour.
- (c) Pursuant to 326 IAC 6-3-2, the particulate emission rate from the facilities listed below, as insignificant activities, shall be limited as specified when operating at the respective process weight rate:

Emission Unit/Activity	Process Weight Rate (lbs/hr)	Uncontrolled Particulate* Emissions (lb/hr)	Allowable Particulate Emission Rate (326 IAC 6-3-2) (lb/hr)
Raw wheat germ storage silos	22,500	0.68	20.75
Defatted wheat germ surge bin	2,975	0.09	5.35
Defatted wheat germ milling/packaging system	2,975	0.09	5.35
Defatted wheat germ storage silos	2,975	0.08	5.35
Meal loadout	2,975	0.40	5.35

*Based on AP-42 emission factors - see Appendix A, page 6 of 6.

The pounds per hour allowable particulate emission rates were calculated with the following equation:

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

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

Based on the calculations made, these facilities are in compliance with these requirements based on the use of AP-42 emission factors (see TSD, Appendix A). The uncontrolled particulate emissions from these facilities are less than the corresponding allowable emission rates.

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

This rule applies to facilities located anywhere in the state that were constructed on or after January 1, 1980, which have potential volatile organic compound (VOC) emissions of 25 tons per year or more, and which are not otherwise regulated by another provision of Article 8.

- (a) The Crown Extraction system was installed in 1957, which is prior to the 1980 applicability date of this rule. Therefore, the requirements of 326 IAC 8-1-6 do not apply to this facility.
- (b) The French Extraction system is subject to the requirements of 326 IAC 8-1-6 (New Facilities; General Reduction Requirements). Pursuant to Significant Source Modification No. 091-10824-00104, issued on August 12, 1999, and 326 IAC 8-1-6 (New Facilities; General Reduction Requirements), a mineral oil absorption system with a minimum control efficiency of 98% used in conjunction with the French Extractor, and the emission limits specified below, shall be considered the best available control technology (BACT) for the French wheat germ oil extraction and processing plant.
 - (1) The VOC (hexane) input usage to the French extractor shall be limited to 9.6 gallons per ton of raw wheat germ based on a 12-month rolling average.
 - (2) The Permittee shall install a meal desolventizer dryer and oil distillation system to reduce residual solvent content in the oil produced.
 - (3) This wheat germ oil extraction and processing plant shall also minimize VOC (hexane) losses to the atmosphere by training operators and supervisors of the plant.
 - (4) Cleanup rags shall be stored, transported, and disposed-of in containers that are closed tightly; and
 - (5) Storage containers used to store VOC and/or HAPs containing materials shall be kept covered when not in use.

Based on the above specified limitations; a facility process rate of 42 tons raw wheat germ per day; and 5.6 lb/gallon hexane, proper operation of the mineral oil absorber shall limit VOC (hexane) emissions to 1.89 pounds per hour from the French system, which is equivalent to 8.3 tons per year.

326 IAC 8-4-3 (Petroleum Liquid Storage Facilities)

Pursuant to 326 IAC 8-4-1 (Applicability) and 326 IAC 8-4-3 (Petroleum Liquid Storage Facilities), all petroleum liquid storage vessels with capacities greater than one hundred fifty thousand (150,000) liters (39,000 gallons) containing VOC whose true vapor pressure is greater than 10.5 kPa (1.52 psi) shall comply with the requirements for external fixed and floating roof tanks and the

specified record keeping and reporting requirements. Storage tanks at this source, including the two (2) 10,000 gallon hexane storage tanks, HT-1 and HT-2, are not subject to this rule because they have capacities less than thirty-nine thousand (39,000) gallons.

326 IAC 8-6 (Organic Solvent Emission Limitations)

This rule applies to sources existing source (as of January 1, 1980) located in Lake or Marion Counties, or sources commencing operation after October 7, 1974 and prior to January 1, 1980 and located anywhere in the state, with potential solvent VOC emissions of 100 tons per year or more, and not regulated by any other provision of Article 8. This source is located in LaPorte County and was constructed in 1957. Therefore, this rule does not apply to this source.

326 IAC 8-9-1 (Volatile Organic Liquid Storage Vessels)

Pursuant to 326 IAC 8-9-1, on and after October 1, 1995 stationary vessels used to store volatile organic liquids (VOL) must comply with the requirement of the rule if located in Clark, Floyd, Lake or Porter Counties. This rule is not applicable to this source since it is located in LaPorte County.

Testing Requirements

As stated earlier in this document, SSM No. 091-10824-00104, issued on August 12, 1999, required the Permittee to conduct an initial performance test of the VOC control equipment (i.e., the mineral oil scrubber) connected to the French Extractor System, as well as to repeat the testing of this system at least once every five years. IDEM has confirmed from inspection of this source that the French Extractor System and related mineral oil scrubber, installed during November 2000, have not operated since installation. As such, IDEM determined during this review, that the Permittee shall notify IDEM, OAQ and the IDEM Northwest Regional Office prior to commencing operation of the French Extractor. The Permittee shall conduct a compliance test of the control device within 180 days after initial startup, consistent with original SSM No. 091-10824-00104, and repeat the test at least once every five years from the date of the prior test.

Compliance Requirements

Permits issued under 326 IAC 2-7 are required to ensure that sources can demonstrate compliance with applicable state and federal rules on a more or less continuous basis. All state and federal rules contain compliance provisions, however, these provisions do not always fulfill the requirement for a more or less 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 requirements are divided into two sections: Compliance Determination Requirements and Compliance Monitoring Requirements.

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

The compliance monitoring requirements applicable to this source are specified below. The three (3) process condensers #1, #2 and #3 used to reclaim hexane at the Crown Extractor system, with incidental control of VOC emissions, do not have any compliance monitoring requirements because the system was constructed in 1957 and there are no requirements applicable to this system.

1. The cyclone to the French Extractor System has applicable compliance monitoring conditions as specified below:
 - (a) Visible emission notations of the French extractor cyclone stack (S/V006) exhaust shall be performed once per day during normal daylight operations when exhausting to the atmosphere. A trained employee shall record whether emissions are normal or abnormal.
 - (b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.
 - (c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.
 - (d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.
 - (e) If abnormal emissions are observed, the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions or Exceedances. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances, shall be considered a deviation from this permit.

These monitoring conditions are necessary because the cyclone for the French Extractor must operate properly to ensure compliance with 326 IAC 6-3 (Particulate Emission Limitations for Manufacturing Processes) and 326 IAC 2-7 (Part 70).

2. The mineral oil absorption system (scrubber) to the French Extractor System has applicable compliance monitoring conditions as specified below:
 - (a) The mineral oil absorption vent VOC (hexane) emission rate shall be determined daily by measuring the airflow rate and the concentration of the hexane in the air stream. This concentration will be determined by measuring the percent lower explosive limit (LEL). The percent LEL shall be maintained within a range established by the latest compliance stack test. Airflow can be determined by a gas analyzer or by a hand held unit and/or calculations when the gas analyzer proves unreliable.
 - (b) The mineral oil temperature to the absorber shall be kept below 70°F or not more than 5°F higher than the ambient wet bulb temperature when the ambient wet bulb temperature is greater than 75°F. When the process is in operation, an electronic data management system (EDMS) shall record the instantaneous temperature on a frequency of not less than once per hour. An as alternate to installing an EDMS, manual readings shall be taken not less than once per hour.
 - (c) The mineral oil to the mineral oil stripping column shall be kept at a minimum of 180°F for adequate stripping of the absorbed hexane from the oil. When the process is in operation, an electronic data management system (EDMS) shall record the instantaneous temperature on a frequency of not less than once per hour. An as alternate to installing an EDMS, manual readings shall be taken not less than once per hour.

- (d) The flow rate of the mineral oil absorber shall be monitored and recorded at least once every calendar day when in operation. The flow rate shall be maintained within a range determined by the latest compliance stack test.
- (e) The vent gases from the hexane storage tanks shall be directed to the absorber system.

These monitoring conditions are necessary because the mineral oil absorption system for the French Extractor must operate properly to ensure compliance with 326 IAC 8-1-6 (New Facilities; General Reduction Requirements), 40 CFR 64 (Compliance Assurance Monitoring, CAM) and 326 IAC 2-7 (Part 70).

Conclusion

The operation of this wheat germ oil extraction and processing plant shall be subject to the conditions of this Part 70 permit 091-20821-00104.

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

Addendum to the
Technical Support Document for a Part 70 Operating Permit Renewal

Source Name:	Vitamins, Inc.
Source Location:	1700 East US 12, Michigan City, Indiana 46360
County:	LaPorte
SIC Code:	2076, 2041
Operation Permit No.:	T091-7767-00104
Operation Permit Issuance Date:	November 17, 2000
Permit Renewal No.:	T091-20821-00104
Permit Reviewer:	Michael Hirtler/EVP

On January 26, 2006, the Office of Air Quality (OAQ) had a notice published in the News Dispatch, Michigan City, Indiana, stating that Vitamins, Inc. had applied for a Part 70 Operating Permit Renewal to operate a wheat germ oil extraction and processing plant. The notice also stated that OAQ proposed to issue a permit for this operation and provided information on how the public could review the proposed permit and other documentation. Finally, the notice informed interested parties that there was a period of thirty (30) days to provide comments on whether or not this permit should be issued as proposed.

No comments were received on the proposed permit. This notwithstanding, upon further review, IDEM has decided to remove (d) concerning nonroad engines from B.18, *Permit Amendment or Modification*. 40 CFR 89, Appendix A specifically indicates that states are not precluded from regulating the use and operation of nonroad engines, such as regulations on hours of usage, daily mass emission limits, or sulfur limits on fuel; nor are permits regulating such operations precluded, once the engine is no longer new. The following change is made to the Part 70 permit (additions in bold, deletions in ~~strikeout~~):

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

~~(d) No permit amendment or modification is required for the addition, operation or removal of a nonroad engine, as defined in 40 CFR 89.2.~~

Appendix A: Emission Calculations

Company Name: Vitamins, Inc.
Address City IN Zip: 1700 E. US Hwy. 12, Michigan City, IN 46360
Part 70: 091-20821-00104
Reviewer: MH / EVP
Date: December 2005

Uncontrolled Potential to Emit (tons/year)					
Emissions Generating Activity					
Pollutant	Natural Gas Combustion Boilers B1 & B2	Crown Wheat Germ Oil* Extraction System	French Wheat Germ Oil Extraction System	Insignificant*** Activities	TOTAL
PM	0.10	20.85 **	26.13 **	5.88	53.0
PM10	0.39	20.85 **	26.13 **	2.99	50.4
SO2	0.03	0.00	0.00	0.00	0.0
NOx	5.12	0.00	0.00	0.00	5.1
VOC	0.28	1,322.76	413.38	0.00	1,736.4
CO	4.30	0.00	0.00	0.00	4.3
total HAPs	0.10	1,322.76	413.38	0.00	1,736.2
worst case single HAP (hexane)	0.09	1,322.76	413.38	0.00	1,736.2
Total emissions based on rated capacity at 8,760 hours/year without controls and limitations.					
Controlled/Limited Potential to Emit (tons/year)					
Emissions Generating Activity					
Pollutant	Natural Gas Combustion Boilers B1 & B2	Crown Wheat Germ Oil* Extraction System	French Wheat Germ Oil Extraction System	Insignificant*** Activities	TOTAL
PM	0.10	20.85 **	26.13 **	5.88	53.0
PM10	0.39	20.85 **	26.13 **	2.99	50.4
SO2	0.03	0.00	0.00	0.00	0.0
NOx	5.12	0.00	0.00	0.00	5.1
VOC	0.28	1,322.76	10.00	0.00	1,333.0
CO	4.30	0.00	0.00	0.00	4.3
total HAPs	0.10	1,322.76	10.00	0.00	1,332.9
worst case single HAP (hexane)	0.09	1,322.76	10.00	0.00	1,565.7
Total emissions based on rated capacity at 8,760 hours/year, after enforceable controls and limitations.					
*This system was installed in 1957 and there are no enforceable requirements pertaining to the three process condensers used for hexane reclaim. Therefore, the limited VOC and HAP (hexane) emissions for this system do not consider the effect of the condensers and are equal to the respective uncontrolled PTE rates.					
** Conservatively set equal to the allowable particulate emission rate, based on 326 IAC 6-3-2(e).					
***Insignificant activities include wheat germ (raw and processed) storage and handling, and reflects uncontrolled PTE based on AP-42 emission factors.					

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

Company Name: Vitamins, Inc.
Address City IN Zip: 1700 E. US Hwy. 12, Michigan City, IN 46360
Part 70: 091-20821-00104
Reviewer: MH / EVP
Date: December 2005

Heat Input Capacity MMBtu/hr		Potential Throughput MMCF/yr	
6.695	Boiler B1	58.6	Constructed in 1956
5	Boiler B2	43.8	Constructed in 1980

Emission Factor in lb/MMCF	Pollutant					
	PM*	PM10*	SO2	NOx	VOC	CO
	1.9	7.6	0.6	100.0	5.5	84.0
				**see below		**see below
Potential Emission in tons/yr	0.06	0.22	0.02	2.93	0.16	2.46
Potential Emission in tons/yr	0.04	0.17	0.01	2.19	0.12	1.84
TOTAL (tons/yr)	0.10	0.39	0.03	5.12	0.28	4.30

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

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

**Emission Factors for CO: Uncontrolled = 40 for heat input capacity < 0.3 MMBtu/hr; = 84 for heat input capacity =>0.3 MMBtu/hr

Methodology

All emission factors are based on normal firing. 0.0019
MMBtu = 1,000,000 Btu 0.0019
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

HAPs - Organics

Emission Factor in lb/MMcf	Benzene	Dichlorobenzene	Formaldehyde	Hexane	Toluene
	2.1E-03	1.2E-03	7.5E-02	1.8E+00	3.4E-03
Potential Emission in tons/yr	1.076E-04	6.147E-05	3.842E-03	9.220E-02	1.742E-04

HAPs - Metals

Emission Factor in lb/MMcf	Lead	Cadmium	Chromium	Manganese	Nickel
	5.0E-04	1.1E-03	1.4E-03	3.8E-04	2.1E-03
Potential Emission in tons/yr	2.561E-05	5.635E-05	7.171E-05	1.947E-05	1.076E-04

Methodology is the same as above.

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
VOC Emissions from Crown Wheat Germ Oil Extractor

Company Name: Vitamins, Inc.
Address City IN Zip: 1700 E. US Hwy. 12, Michigan City, IN 46360
Part 70: 091-20821-00104
Reviewer: MH / EVP
Date: December 2005

Crown Extractor Wheat Germ Oil Extraction System (constructed in 1957)

Potential VOC (hexane) emissions*	=	302 lbs/hr x	8760 hrs/yr /	2000 lbs/ton
	=	1322.76 tons/yr		
Controlled VOC (hexane) emissions*	=	34 lbs/hr x	8760 hrs/yr /	2000 lbs/ton
	=	148.92 tons/yr		

* Note: Emission rates (302 lbs/hr, potential) and (34 lbs/hr, controlled) from Part 70 No. T091-7767-00140, issued November 17, 2000, as initially provided by the permittee. The emissions reflect an approximate 90% hexane (as a raw material) recovery rate from the three (3) water cooled condensers on the Crown Extractor System. Since the Crown System and associated condensers, which are used primarily for product recovery, have no existing requirements, they are not evaluated for purposes of being integral to this process. Therefore, for permitting purposes the controlled PTE is equal to the uncontrolled PTE (i.e, assumes all hexane used is emitted to the atmosphere).

Appendix A: VOC (and Hexane) Emissions from the French Extractor*

Company Name: Vitamins, Inc.
Address City IN Zip: 1700 E. US Hwy. 12, Michigan City, IN 46360
Part 70: 091-20821-00104
Reviewer: MH / EVP
Date: December 2005

Uncontrolled Potential to Emit (tons/year)						
Process	No. of Units	Flow Rate (cfm)	Vent Gas Density ⁽¹⁾ (lb/ft ³)	Hexane Concentration ⁽²⁾ (lb hexane / lb gas)	Control Efficiency	Total (tons/yr)
French Extractor to Mineral Oil Scrubber	1	11.00	0.11	1.30	98.00%	413.38
Total PTE Based on Rated Capacity at 8,760 Hours/Year						413.38
Controlled Potential to Emit (tons/year)						
Process	No. of Units				Control Efficiency	Total (tons/yr)
Hexane Input Usage Limit (tons per year)*						
French Extractor to Mineral Oil Scrubber	1	< 500			98.00%	< 10.00
Total Limited PTE Based on Rated Capacity at 8,760 Hours/Year and source controls						< 10.00

Methodology:

* Taken from Part 70 No. T091-7767-00140, issued November 17, 2000.

(1) and (2): Information provided by the permittee, as initially contained in SSM 091-10824-00104, issued on 8/12/1999, and in the initial Part 70 as follows: Vent gas density and hexane concentration obtained from Oil Mill Gazetteer, June 1982, Operation & Maintenance of Mineral Oil Solvent Recovery Systems, Martin G. Horsman. Compliance with 98% control efficiency is required by conditions D.1.1 and D.1.2 of the permit. The permittee is limited to less than 500 tpy hexane input which is equivalent to less than 10 tpy hexane, based on 98% efficiency.

Uncontrolled PTE (tons/yr) = No. Units * Flow Rate (cfm) * Vent Gas Density (lb/ft³) * Hexane Concentration (lb Hex./lb gas) * (60 min/hr) * (1 ton/2000 lb) * (8760 hr/ 1 yr)

Controlled PTE (tons/yr) = total hexane input usage limit allowed by permit (tons/yr) * (1 - control efficiency)

Appendix A: Emission Calculations
**** Process Particulate Emissions ****

Company Name: Vitamins, Inc.
Address City IN Zip: 1700 E. US Hwy. 12, Michigan City, IN 46360
Part 70: 091-20821-00104
Reviewer: MH / EVP
Date: December 2005

Stack ID	Unit	Process	process rate (lb/hr)	emission factors (lb/ton)		pre-control % emitted	control ⁽¹⁾ efficiency	Before Control		After Control		Emission Factor Source
				PM	PM-10			PM (ton/yr)	PM-10 (ton/yr)	PM (ton/yr)	PM-10 (ton/yr)	
Atmos.	Crown Extractor	raw wheat germ to crown extractor	2,500	0.061	0.034	100.00%	0.00%	0.33	0.19	0.33	0.19	AP-42, Section 9.9.1, Table 9.9.1-1 (SCC 3-02-005-30)
SV006	French Extractor	raw wheat germ to french extractor	3,500	0.061	0.034	100.00%	90.00%	0.47	0.26	0.05	0.03	AP-42, Section 9.9.1, Table 9.9.1-1 (SCC 3-02-005-30)
Total emissions:								0.8	0.45	0.38	0.21	

(1) Reflects an assumed minimum 90% particulate control efficiency for SV006.

(2) The source also has the capability of pneumatic rail car unloading, but the related PM factor from AP-42 is 0.032 lb/ton (PM10 same as truck unloading) and rarely, if ever, does rail car unloading occur per the Permittee. Therefore, truck unloading is considered as worst case.

Allowable Emission Rates Pursuant to 326 IAC 6-3-2:

Allowable emission limit, pursuant to 326 IAC 6-3-2 = $4.10 \cdot P^{0.67}$ lb/hour, for process weight rates, P, expressed in tons/hour, up to 30 tons

Crown Extractor Allowable PM: 4.76 lb/hour * 4.38 lb/hr / ton/yr : 20.85 ton/yr (equivalent allowable annual emission rate) *
French Extractor Allowable PM: 5.97 lb/hour * 4.38 lb/hr / ton/yr : 26.13 ton/yr (equivalent allowable annual emission rate) *

* PM10 is assumed equal to PM. These facilities are in compliance with the respective allowable emission limits.

Appendix A: Emission Calculations
**** Miscellaneous Process Particulate Emissions ****

Company Name: Vitamins, Inc.
Address City IN Zip: 1700 E. US Hwy. 12, Michigan City, IN 46360
Part 70: 091-20821-00104
Reviewer: MH / EVP
Date: December 2005

Stack ID	Unit	Process	throughput (lb/hr)	emission factors (lb/ton)		pre-control % emitted	control ⁽¹⁾ efficiency	Before Control		After Control		Emission Factor Source
				PM	PM-10			PM (ton/yr)	PM-10 (ton/yr)	PM (ton/yr)	PM-10 (ton/yr)	
SV002	Raw Wheat Germ Stg Silos	pneumatic truck unloading to storage silos ⁽²⁾	22,500	0.060	0.0141	100.00%	0.00%	2.96	0.69	2.96	0.69	plus AP-42, Section 9.9.1, Table 9.9.1-1 (SCC 3-02-005-40)
SV005	surge bin	defatted meal surge bin prior to milling/packaging system - cyclone #1 vent	2,975	0.061	0.034	100.00%	90.00%	0.40	0.22	0.04	0.02	AP-42, Section 9.9.1, Table 9.9.1-1 (SCC 3-02-005-30)
SV003	Milling & Packaging System	process dust collector #1 vent	2,975	0.061	0.034	100.00%	90.00%	0.40	0.22	0.04	0.02	AP-42, Section 9.9.1, Table 9.9.1-1 (SCC 3-02-005-30)
SV004	Defatted Wheat Germ Stg Silos	pneumatic loading to stg. silos - dust collector #2 vent	2,975	0.057	0.0141	100.00%	90.00%	0.37	0.09	0.04	0.01	plus AP-42, Section 9.9.1, Table 9.9.1-1 (SCC 3-02-005-40)
Atmos.	meal loadout	defatted meal loadout	2,975	0.27	0.27	100.00%	0.00%	1.76	1.76	1.76	1.76	AP-42, Section 9.11.1, Table 9.11.1-1 (SCC 3-02-007-91)
Total emissions:								5.88	2.99	4.83	2.51	

(1) Reflects an assumed minimum 90% particulate control efficiency for SV003, SV004 and SV005.

(2) The source also has the capability of pneumatic rail car unloading, but the related PM factor from AP-42 is 0.032 lb/ton (PM10 same as truck unloading) and rarely, if ever, does rail car unloading occur per the Permittee.

Therefore, truck unloading is considered as worst case. Bulk shipments reflect 45,000 lb unloaded in a two (2) hour period, with up to about 10 shipments per annum.