



Mitchell E. Daniels, Jr.
Governor

Thomas W. Easterly
Commissioner

100 North Senate Avenue
Indianapolis, Indiana 46204
MC 61-53 IGCN 1003
(317) 232-8603
(800) 451-6027
www.IN.gov/idem

TO: Interested Parties / Applicant
DATE: November 2, 2007
RE: Sisters of Providence / 167-24884-00015
FROM: Nisha Sizemore
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 13-17-3-4 and 326 IAC 2, this approval 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 13-15-7-3 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 Environmental Adjudication, 100 North Senate Avenue, Government Center North, Room 1049, Indianapolis, IN 46204, **within eighteen (18) calendar days of the mailing of this notice**. The filing of a petition for administrative review is complete on the earliest of the following dates that apply to the filing:

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

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

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

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

Enclosures



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

We make Indiana a cleaner, healthier place to live.

Mitchell E. Daniels, Jr.
Governor

Thomas W. Easterly
Commissioner

100 North Senate Avenue
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Indianapolis, Indiana 46204-2251
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Mr. Philip McCord
Sisters Of Providence
1 Sisters of Providence
St. Mary Of The Woods, IN 47876

November 2, 2007

Re: 167-24884-00015
First Minor Revision to
FESOP 167-17745-00015

Dear Mr. McCord:

Sisters Of Providence was issued a Federally Enforceable State Operating Permit (FESOP) Renewal on March 13, 2007 for the operation of a comfort heating system for the motherhouse. A letter requesting changes to this permit was received on June 7, 2007. Pursuant to the provisions of 326 IAC 2-8-11.1 a minor permit revision to this permit is hereby approved as described in the attached Technical Support Document.

The modification consists of the construction and operation of four (4) waste oil storage tanks, permitting the combustion of waste oil in the existing boiler (identified as Boilers #2 and #3).

The following construction conditions are applicable to the proposed project:

1. General Construction Conditions
The data and information supplied with the application shall be considered part of this source modification approval. Prior to any proposed change in construction which may affect the potential to emit (PTE) of the proposed project, the change must be approved by the Office of Air Quality (OAQ).
2. This approval to construct does not relieve the permittee of the responsibility to comply with the provisions of the Indiana Environmental Management Law (IC 13-11 through 13-20; 13-22 through 13-25; and 13-30), the Air Pollution Control Law (IC 13-17) and the rules promulgated thereunder, as well as other applicable local, state, and federal requirements.
3. Effective Date of the Permit
Pursuant to IC 13-15-5-3, this approval becomes effective upon its issuance.
4. Pursuant to 326 IAC 2-1.1-9 (Revocation), the Commissioner may revoke this approval if construction is not commenced within eighteen (18) months after receipt of this approval or if construction is suspended for a continuous period of one (1) year or more.
5. All requirements and conditions of this construction approval shall remain in effect unless modified in a manner consistent with procedures established pursuant to 326 IAC 2.

Pursuant to 326 IAC 2-8-11.1, this permit shall be revised by incorporating the minor permit revision into the permit. All other conditions of the permit shall remain unchanged and in effect. Please find attached a copy of the revised permit.

Pursuant to Contract No. A305-5-65, IDEM, OAQ has assigned the processing of this application to Eastern Research Group, Inc., (ERG). Therefore, questions should be directed to Bryan Lange, ERG, 1600 Perimeter Park Drive, Morrisville, North Carolina 27560, or call (919) 468-7854 to speak directly to Mr. Lange. Questions may also be directed to Duane Van Laningham at IDEM, OAQ, 100 North Senate Avenue, MC 61-53 IGCN 1003, Indianapolis, Indiana, 46204-2251, or call (800) 451-6027 and ask for Duane Van Laningham or extension 3-6878, or dial (317) 233-6878.

Sincerely,

Original Signed By:
Iryn Calilung for:

Nisha Sizemore, Chief
Permits Branch
Office of Air Quality

Attachments
ERG/BL

cc: File - Vigo County
U.S. EPA, Region V
Vigo County Health Department
Vigo - Local Agency
Air Compliance Section Inspector
Compliance Data Section
Administrative and Development
Technical Support and Modeling
Billing, Licensing and Training Section



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FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP) RENEWAL INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT - OFFICE OF AIR QUALITY And VIGO COUNTY AIR POLLUTION CONTROL

**Sisters Of Providence
3301 St. Mary's Road
St. Mary Of The Woods, Indiana 47876**

(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 provision of this permit is grounds for enforcement action; permit termination, revocation and reissuance, or modification; and denial of a permit renewal application. 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 2-8 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.: F167-17745-00015	
Issued by: George M. Needham, Director Vigo County Air Pollution Control	Issuance Date: March 13, 2006 Expiration Date: March 13, 2011

1st Minor Permit Revision No.: 167-24884-00015	Revised pages:
Issued by: Original Signed By: Iryn Calilung for: Nisha Sizemore, Chief Permits Branch Office of Air Quality	Issuance Date: November 2, 2007 Expiration Date: March 13, 2011

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Stratospheric Ozone Protection

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Two Boilers and a Fuel Oil Storage Tank 21

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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) and Vigo County Air Pollution Control (VCAPC). 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 2-8-3(b)]

The Permittee owns and operates a comfort heating system for the motherhouse.

Source Address:	3301 St. Mary's Road, St. Mary Of The Woods, Indiana 47876
Mailing Address:	One Sisters of Providence, St. Mary Of The Woods, Indiana 47876
General Source Phone:	(812) 535-3143
SIC Code:	8211
County Location:	Vigo County
Source Location Status:	Nonattainment for ozone under the 8-hour standard Attainment for all other criteria pollutants
Source Status:	Federally Enforceable State Operating Permit (FESOP) Minor Source, under PSD Rules Minor Source, under Emission Offset Minor Source, Section 112 of the Clean Air Act

A.2 Emission Units and Pollution Control Equipment Summary [326 IAC 2-8-3(c)(3)]

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

- (a) Natural Gas Boiler (with fuel oil or waste oil backup), identified as Boiler #2, with a maximum heat input capacity of 25.4 million BTU per hour, using no control, and exhausting to stack 1.
- (b) Natural Gas Boiler (with fuel oil or waste oil backup), identified as Boiler #3, with a maximum heat input capacity of 25.4 million BTU per hour, using no control, and exhausting to stack 1.
- (c) Fuel oil storage tank, with a maximum capacity of 20,000 gallons, using no control, and venting directly to the atmosphere.
- (d) Four (4) Waste oil storage tanks, each with a maximum capacity of 20,000 gallons, using no control, and venting directly to the atmosphere.

A.3 Insignificant Activities [326 IAC 2-7-1(21)][326 IAC 2-8-3(c)(3)(I)]

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

- (a) A gasoline fuel transfer and dispensing operation handling less than or equal to 1,300 gallons per day, such as filling of tanks, locomotives, automobiles, having a storage capacity less than or equal to 10,500 gallons.
- (b) Closed loop heating and cooling systems.
- (c) Activities associated with the transportation and treatment of sanitary sewage, provided discharge to the treatment plant is under control of the owner/operator, that is an on site sewage treatment facility.
- (d) Noncontact cooling tower system with forced and induced draft cooling tower system not regulated under a NESHAP.

- (e) Paved and unpaved roads and parking lots with public access.
- (f) Asbestos abatement projects regulated by 326 IAC 14-10.
- (g) Blowdown for any of the following: sight glass; boiler; compressors; pumps; and cooling towers.
- (h) Diesel emergency generators not exceeding 1600 horsepower.
- (i) Purge double block and bleed valves.
- (j) Natural gas-fired combustion sources with heat input equal to or less than ten million (10,000,000) British thermal units per hour.
- (k) Waste oil heater, with a maximum capacity of 0.5 MMBTU per hour.

A.4 FESOP Applicability [326 IAC 2-8-2]

This stationary source, otherwise required to have a Part 70 permit as described in 326 IAC 2-7-2(a), has applied to the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ) and Vigo County Air Pollution Control (VCAPC) a Federally Enforceable State Operating Permit (FESOP).

A.5 Prior Permits Superseded [326 IAC 2-1.1-9.5]

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

SECTION B GENERAL CONDITIONS

B.1 Permit No Defense [IC 13]

Indiana statutes from IC 13 and rules from 326 IAC, quoted in conditions in this permit, are those applicable at the time the permit was issued. The issuance or possession of this permit shall not alone constitute a defense against an alleged violation of any law, regulation or standard, except for the requirement to obtain a FESOP under 326 IAC 2-8.

B.2 Definitions [326 IAC 2-8-1]

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.3 Permit Term [326 IAC 2-8-4(2)][326 IAC 2-1.1-9.5]

This permit 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.

B.4 Enforceability [326 IAC 2-8-6]

- (a) 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, VCAPC, the United States Environmental Protection Agency (U.S. EPA) and by citizens in accordance with the Clean Air Act.
- (b) Unless otherwise stated, all terms and conditions in this permit that are local requirements, including any provisions designed to limit the source's potential to emit, are enforceable by Vigo County Air Pollution Control.

B.5 Termination of Right to Operate [326 IAC 2-8-9][326 IAC 2-8-3(h)]

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 2-8-3(h) and 326 IAC 2-8-9.

B.6 Severability [326 IAC 2-8-4(4)]

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.7 Property Rights or Exclusive Privilege [326 IAC 2-8-4(5)(D)]

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

B.8 Duty to Provide Information [326 IAC 2-8-4(5)(E)]

- (a) The Permittee shall furnish to IDEM, OAQ and VCAPC, within a reasonable time, any information that IDEM, OAQ and VCAPC, 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 "authorized individual" as defined by 326 IAC 2-1.1-1(1). Upon request, the Permittee shall also furnish to IDEM, OAQ and VCAPC, copies of records required to be kept by this permit.
- (b) For information furnished by the Permittee to IDEM, OAQ or VCAPC, 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.9 Compliance Order Issuance [326 IAC 2-8-5(b)]

IDEM, OAQ and VCAPC may issue a compliance order to this Permittee upon discovery that this permit is in nonconformance with an applicable requirement. The order may require immediate compliance or contain a schedule for expeditious compliance with the applicable requirement.

B.10 Certification [326 IAC 2-8-3(d)][326 IAC 2-8-4(3)(C)(i)][326 IAC 2-8-5(1)]

- (a) Where specifically designated by this permit or required by an applicable requirement, any application form, report, or compliance certification submitted shall contain certification by an authorized individual of truth, accuracy, and completeness. This certification, shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.
- (b) One (1) certification shall be included, using the attached Certification Form, with each submittal requiring certification. One (1) certification may cover multiple forms in one (1) submittal.
- (c) An authorized individual is defined at 326 IAC 2-1.1-1(1).

B.11 Annual Compliance Certification [326 IAC 2-8-5(a)(1)]

- (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
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

And

Vigo County Air Pollution Control
103 South 3rd Street
Terre Haute, Indiana 47807

- (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 and VCAPC, 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 2-8-4(3); and
 - (5) Such other facts as specified in Sections D of this permit, IDEM, OAQ and VCAPC, may require to determine the compliance status of the source.

The notification which shall be submitted by the Permittee does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

B.12 Preventive Maintenance Plan [326 IAC 1-6-3][326 IAC 2-8-4(9)][326 IAC 2-8-5(a)(1)]

- (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 and VCAPC, upon request and within a reasonable time, and shall be subject to review and approval by IDEM, OAQ and VCAPC. IDEM, OAQ and VCAPC, may require the Permittee to revise its PMPs whenever lack of proper maintenance causes or is the primary contributor to an exceedance of any limitation on emissions or potential to emit. The PMPs do not require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (c) To the extent the Permittee is required by 40 CFR Part 60/63 to have an Operation, Maintenance, and Monitoring (OMM) Plan for a unit, such Plan is deemed to satisfy the PMP requirements of 326 IAC 1-6-3 for that unit.

B.13 Emergency Provisions [326 IAC 2-8-12]

- (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, except as provided in 326 IAC 2-8-12.
- (b) An emergency, as defined in 326 IAC 2-7-1(12), constitutes an affirmative defense to an action brought for noncompliance with a health-based or technology-based emission limitation if the affirmative defense of an emergency is demonstrated through properly signed, contemporaneous operating logs or other relevant evidence that describes 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 VCAPC, within four (4) daytime business hours after the beginning of the emergency, or after the emergency was discovered or reasonably should have been discovered;

IDEM

Telephone No.: 1-800-451-6027 (ask for Office of Air Quality, Compliance Section) or,
Telephone No.: 317-233-5674 (ask for Compliance Section)
Facsimile No.: 317-233-5967

VCAPC

Telephone No.: 812-462-3433
Facsimile No.: 812-462-3447

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

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

And

Vigo County Air Pollution Control
103 South 3rd Street
Terre Haute, Indiana 47807

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 2-8-4(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 "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (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 and VCAPC, may require that the Preventive Maintenance Plans required under 326 IAC 2-8-3(c)(6) be revised in response to an emergency.
 - (f) Failure to notify IDEM, OAQ and VCAPC, 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 2-8 and any other applicable rules.
 - (g) Operations may continue during an emergency only if the following conditions are met:
 - (1) 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.

- (2) If an emergency situation causes a deviation from a health-based limit, the Permittee may not continue to operate the affected emissions facilities unless:
- (A) The Permittee immediately takes all reasonable steps to correct the emergency situation and to minimize emissions; and
 - (B) Continued operation of the facilities is necessary to prevent imminent injury to persons, severe damage to equipment, substantial loss of capital investment, or loss of product or raw material of substantial economic value.

Any operations shall continue no longer than the minimum time required to prevent the situations identified in (g)(2)(B) of this condition.

- (h) The Permittee shall include all emergencies in the Quarterly Deviation and Compliance Monitoring Report.

B.14 Deviations from Permit Requirements and Conditions [326 IAC 2-8-4(3)(C)(ii)]

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

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

And

Vigo County Air Pollution Control
103 South 3rd Street
Terre Haute, Indiana 47807

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

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

B.15 Permit Modification, Reopening, Revocation and Reissuance, or Termination [326 IAC 2-8-4(5)(C)][326 IAC 2-8-7(a)][326 IAC 2-8-8]

- (a) This permit may be modified, reopened, revoked and reissued, or terminated for cause. The filing of a request by the Permittee for a FESOP 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 2-8-4(5)(C)] The notification by the Permittee does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (b) This permit shall be reopened and revised under any of the circumstances listed in IC 13-15-7-2 or if IDEM, OAQ or VCAPC 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 2-8-8(a)]
- (c) Proceedings by IDEM, OAQ or VCAPC, 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 2-8-8(b)]
- (d) The reopening and revision of this permit, under 326 IAC 2-8-8(a), shall not be initiated before notice of such intent is provided to the Permittee by IDEM, OAQ or VCAPC, at least thirty (30) days in advance of the date this permit is to be reopened, except that IDEM, OAQ or VCAPC, may provide a shorter time period in the case of an emergency. [326 IAC 2-8-8(c)]

B.16 Permit Renewal [326 IAC 2-8-3(h)]

- (a) The application for renewal shall be submitted using the application form or forms prescribed by IDEM, OAQ and VCAPC and shall include the information specified in 326 IAC 2-8-3. 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 "authorized individual" as defined by 326 IAC 2-1.1-1(1).

Request for renewal shall be submitted to:

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

And

Vigo County Air Pollution Control
103 South 3rd Street
Terre Haute, Indiana 47807

- (b) Timely Submittal of Permit Renewal [326 IAC 2-8-3]
 - (1) A timely renewal application is one that is:
 - (A) Submitted at least nine (9) months prior to the date of the expiration of this permit; and
 - (B) 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 and VCAPC, on or before the date it is due.
 - (2) If IDEM, OAQ and VCAPC, upon receiving a timely and complete permit application, fails to issue or deny the permit renewal prior to the expiration date of this permit, this existing permit shall not expire and all terms and conditions shall continue in effect until the renewal permit has been issued or denied.
- (c) Right to Operate After Application for Renewal [326 IAC 2-8-9]

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 2-8 until IDEM, OAQ and VCAPC take 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 and VCAPC, any additional information identified as needed to process the application.

B.17 Permit Amendment or Revision [326 IAC 2-8-10][326 IAC 2-8-11.1]

(a) Permit amendments and revisions are governed by the requirements of 326 IAC 2-8-10 or 326 IAC 2-8-11.1 whenever the Permittee seeks to amend or modify this permit.

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

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

And

Vigo County Air Pollution Control
103 South 3rd Street
Terre Haute, Indiana 47807

Any such application shall be certified by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

(c) The Permittee may implement the administrative amendment changes addressed in the request for an administrative amendment immediately upon submittal of the request. [326 IAC 2-8-10(b)(3)]

(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.

B.18 Operational Flexibility [326 IAC 2-8-15][326 IAC 2-8-11.1]

(a) The Permittee may make any change or changes at this source that are described in 326 IAC 2-8-15(b) through (d), without 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 approval required by 326 IAC 2-8-11.1 has been obtained;

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

(4) The Permittee notifies the:

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

And

Vigo County Air Pollution Control
103 South 3rd Street
Terre Haute, Indiana 47807

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 emissions trade that are subject to 326 IAC 2-8-15(b) through (d). The Permittee shall make such records available, upon reasonable request, to public review.

Such records shall consist of all information required to be submitted to IDEM, OAQ and VCAPC, in the notices specified in 326 IAC 2-8-15(b)(2), (c)(1), and (d).

- (b) Emission Trades [326 IAC 2-8-15(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 2-8-15(c).
- (c) Alternative Operating Scenarios [326 IAC 2-8-15(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 2-8-4(7). No prior notification of IDEM, OAQ, VCAPC or U.S. EPA is required.
- (d) 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.19 Permit Revision Requirement [326 IAC 2-8-11.1]

A modification, construction, or reconstruction is governed by the requirements of 326 IAC 2 and 326 IAC 2-8-11.1.

B.20 Inspection and Entry [326 IAC 2-8-5(a)(2)][IC 13-14-2-2][IC 13-17-3-2][IC 13-17-3-2][IC13-30-3-1]

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

- (a) Enter upon the Permittee's premises where a FESOP source is located, or emissions related activity is conducted, or where records must be kept under the conditions of this permit;
- (b) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;

- (c) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, inspect at reasonable times, any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit;
- (d) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with this permit or applicable requirements; and
- (e) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, utilize any photographic, recording, testing, monitoring, or other equipment for the purpose of assuring compliance with this permit or applicable requirements.

B.21 Transfer of Ownership or Operational Control [326 IAC 2-8-10]

- (a) The Permittee must comply with the requirements of 326 IAC 2-8-10 whenever the Permittee seeks to change the ownership or operational control of the source and no other change in the permit is necessary.

- (b) Any application requesting a change in the ownership or operational control of the source shall contain a written agreement containing a specific date for transfer of permit responsibility, coverage and liability between the current and new Permittee. The application shall be submitted to:

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

And

Vigo County Air Pollution Control
103 South 3rd Street
Terre Haute, Indiana 47807

The application which shall be submitted by the Permittee does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (c) The Permittee may implement administrative amendment changes addressed in the request for an administrative amendment immediately upon submittal of the request. [326 IAC 2-8-10(b)(3)]

B.22 Annual Fee Payment [326 IAC 2-7-19][326 IAC 2-8-4(6)][326 IAC 2-8-16][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) 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 317-233-4320 (ask for OAQ, Billing, Licensing, and Training Section), to determine the appropriate permit fee.

B.23 Credible Evidence [326 IAC 2-8-4(3)][326 IAC 2-8-5][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

Emissions Limitations and Standards [326 IAC 2-8-4(1)]

C.1 Particulate Emission Limitations For Processes with Process Weight Rates Less Than One Hundred (100) Pounds per Hour [40 CFR 52 Subpart P][326 IAC 6-3-2]

- (1) Pursuant to 40 CFR 52 Subpart P, particulate matter emissions from any process not already regulated by 326 IAC 6-1 or any New Source Performance Standard, and which has a maximum process weight rate less than 100 pounds per hour shall not exceed 0.551 pounds per hour.
- (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 Overall Source Limit [326 IAC 2-8]

The purpose of this permit is to limit this source's potential to emit to less than major source levels for the purpose of Section 502(a) of the Clean Air Act.

- (a) Pursuant to 326 IAC 2-8:
 - (1) The potential to emit any regulated pollutant, except particulate matter (PM), from the entire source shall be limited to less than one-hundred (100) tons per twelve (12) consecutive month period. This limitation shall also satisfy the requirements of 326 IAC 2-3 (Emission Offset);
 - (2) The potential to emit any individual hazardous air pollutant (HAP) from the entire source shall be limited to less than ten (10) tons per twelve (12) consecutive month period; and
 - (3) The potential to emit any combination of HAPs from the entire source shall be limited to less than twenty-five (25) tons per twelve (12) consecutive month period.
- (b) Pursuant to 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)), potential to emit particulate matter (PM) from the entire source shall be limited to less than two hundred fifty (250) tons per twelve (12) consecutive month period.
- (c) This condition shall include all emission points at this source including those that are insignificant as defined in 326 IAC 2-7-1(21). The source shall be allowed to add insignificant activities not already listed in this permit, provided the source's potential to emit does not exceed the above specified limits.
- (d) Section D of this permit contains independently enforceable provisions to satisfy this requirement.

C.3 Opacity [326 IAC 5-1]

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

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

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

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

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

C.5 Incineration [326 IAC 4-2][326 IAC 9-1-2(3)]

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

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

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

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

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

C.8 Asbestos Abatement Projects [326 IAC 14-10][326 IAC 18][40 CFR 61, Subpart M]

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

All required notifications shall be submitted to:

Indiana Department of Environmental Management
Asbestos Section, Office of Air Quality

100 North Senate Avenue
MC 61-52 IGCN 1003
Indianapolis, Indiana 46204-2251

And

Vigo County Air Pollution Control
103 South 3rd Street
Terre Haute, Indiana 47807

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

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

Testing Requirements [326 IAC 2-8-4(3)]

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
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

And

Vigo County Air Pollution Control
103 South 3rd Street
Terre Haute, Indiana 47807

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

- (b) The Permittee shall notify IDEM, OAQ and VCAPC 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 "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (c) Pursuant to 326 IAC 3-6-4(b), all test reports must be received by IDEM, OAQ and VCAPC not later than forty-five (45) days after the completion of the testing. An extension may be granted by IDEM, OAQ and VCAPC, if the Permittee submits to IDEM, OAQ and VCAPC, 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 2-8-4][326 IAC 2-8-5(a)(1)]

C.11 Compliance Monitoring [326 IAC 2-8-4(3)][326 IAC 2-8-5(a)(1)]

Unless otherwise specified in this permit, all monitoring and record keeping requirements not already legally required shall be implemented upon issuance of this permit. If required by Section D, the Permittee shall be responsible for installing any necessary equipment and initiating any required monitoring related to that equipment.

Unless otherwise specified in the approval for the new emissions unit, compliance monitoring for new emission units or emission units added through a permit revision 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.

Corrective Actions and Response Steps [326 IAC 2-8-4][326 IAC 2-8-5(a)(1)]

C.13 Risk Management Plan [326 IAC 2-8-4][40 CFR 68]

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

C.14 Response to Excursions or Exceedances [326 IAC 2-8-4][326 IAC 2-8-5]

- (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.15 Actions Related to Noncompliance Demonstrated by a Stack Test [326 IAC 2-8-4][326 IAC 2-8-5]

- (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 and VCAPC, 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 and VCAPC that retesting in one-hundred and twenty (120) days is not practicable, IDEM, OAQ and VCAPC may extend the retesting deadline.
- (c) IDEM, OAQ and VCAPC reserve 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 "authorized individual" as defined by 326 IAC 2-1.1-1(1).

Record Keeping and Reporting Requirements [326 IAC 2-8-4(3)]

C.16 General Record Keeping Requirements [326 IAC 2-8-4(3)][326 IAC 2-8-5]

- (a) Records of all required monitoring data, reports and support information required by this permit shall be retained for a period of at least five (5) years from the date of monitoring sample, measurement, report, or application. These records shall be physically present or electronically accessible at the source location for a minimum of three (3) years. The records may be stored elsewhere for the remaining two (2) years as long as they are available upon request. If the Commissioner or Vigo County Air Pollution Control makes a request for records to the Permittee, the Permittee shall furnish the records to the Commissioner or Vigo County Air Pollution Control 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.17 General Reporting Requirements [326 IAC 2-8-4(3)(C)][326 IAC 2-1.1-11]

- (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 "authorized individual" as defined by 326 IAC2-1.1-1(1).
- (b) The report required in (a) of this condition and reports required by conditions in Section D of this permit shall be submitted to:

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

And

Vigo County Air Pollution Control
103 South 3rd Street
Terre Haute, Indiana 47807
- (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 and VCAPC, 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 "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (e) Reporting periods are based on calendar years, unless otherwise specified in this permit. For the purpose of this permit "calendar year" means the twelve (12) month period from January 1 to December 31 inclusive.

Stratospheric Ozone Protection

C.18 Compliance with 40 CFR 82 and 326 IAC 22-1

Pursuant to 40 CFR 82 (Protection of Stratospheric Ozone), Subpart F, except as provided for motor vehicle air conditioners in Subpart B, the Permittee shall comply with 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 2-8-4(10)]:

- (a) Natural Gas Boiler (with fuel oil or waste oil backup), identified as Boiler #2, with a maximum heat input capacity of 25.4 million BTU per hour, using no control, and exhausting to stack 1.
- (b) Natural Gas Boiler (with fuel oil or waste oil backup), identified as Boiler #3, with a maximum heat input capacity of 25.4 million BTU per hour, using no control, and exhausting to stack 1.
- (c) Fuel oil storage tank, with a maximum capacity of 20,000 gallons, using no control, and venting directly to the atmosphere.
- (d) Four (4) Waste oil storage tanks, each with a maximum capacity of 20,000 gallons, using no control, and venting directly to the atmosphere.

(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 2-8-4(1)]

D.1.1 General Provisions Relating to NSPS [326 IAC 12][40 CFR 60, Subpart A]

The provisions of 40 CFR Part 60, Subpart A - General Provisions, which are incorporated under 326 IAC 12, apply to Boiler #2 and Boiler #3 except when otherwise specified in 40 CFR Part 60, Subpart Dc.

D.1.2 Fuel Oil Use Limitation [326 IAC 2-8]

Pursuant to FESOP 167-7969-00015, issued on February 4, 1998, the input of No. 2 fuel oil and waste oil to Boiler #2 and Boiler #3 shall be less than 2,700 kilo-gallons per 12 consecutive month period with compliance determined at the end of each month.

D.1.3 Minor Modification Limit [326 IAC 2-8-11.1][326 IAC 2-8]

Pursuant to 326 IAC 2-8-11.1(d)(5)(D) (Minor Permit Revision) and 326 IAC 2-8 (FESOP), the input of waste oil to Boiler #2 and Boiler #3 shall be less than 875 kilo-gallons (kgal) per 12 consecutive month period, with compliance determined at the end of each month.

- (a) When combusting waste oil the ash content shall not exceed 0.84 percent.

Compliance with these limits shall render the requirements of 326 IAC 2-8-11.1(f) (Significant Permit Revision) and 326 IAC 2-7 (Title V) not applicable.

D.1.4 Particulate Matter (PM) [326 IAC 6.5-9-13]

Pursuant to 326 IAC 6.5-9-13 (Particulate Matter Limitations Except Lake County), particulate matter (PM) emissions from Boiler #2 and #3 shall not exceed 20.52 lb/hr and 89.9 tons/yr.

D.1.5 Sulfur Dioxide (SO₂) [326 IAC 7-1.1-1][326 IAC 12-1][40 CFR 60, Subpart Dc]

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

- (a) When combusting distillate oil the SO₂ emissions from the boilers (Boiler #2 and Boiler #3) shall not exceed five tenths (0.5) pounds per million Btu heat input;
- (b) When combusting residual oil the SO₂ emissions from the boilers (Boiler #2 and Boiler #3) shall not exceed one and six-tenths (1.6) pounds per million Btu heat input; or
- (c) The sulfur content of the fuel oil and residual oil shall not exceed five-tenths percent (0.5%) by weight. [40 CFR 60.42c(d)]

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

D.1.6 Preventive Maintenance Plan [326 IAC 2-8-4(9)]

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

Compliance Determination Requirements

D.1.7 Sulfur Dioxide Emissions and Sulfur Content

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

- (a) Providing vendor analysis of fuel delivered, if accompanied by a vendor certification; or
- (b) Analyzing the oil sample to determine the sulfur content of the oil via the procedures in 40 CFR 60, Appendix A, Method 19.
 - (1) Oil samples may be collected from the fuel tank immediately after the fuel tank is filled and before any oil is combusted; and
 - (2) If a partially empty fuel tank is refilled, a new sample and analysis would be required upon filling.

D.1.8 Particulate Matter (PM) Emissions and Ash Content

Pursuant to 326 IAC 6.5-9-13 (Particulate Matter Limitations Except Lake County), the Permittee shall demonstrate compliance utilizing one of the following options:

- (a) Providing vendor analysis of fuel delivered, if accompanied by a vendor certification; or
- (b) Analyzing the oil sample to determine the ash content of the oil.
 - (1) Oil samples may be collected from the fuel tank immediately after the fuel tank is filled and before any oil is combusted; and
 - (2) If a partially empty fuel tank is refilled, a new sample and analysis would be required upon filling.

Compliance Monitoring Requirements [326 IAC 2-8-4][326 IAC 2-8-5(a)(1)]

D.1.9 Visible Emissions Notations

- (a) Visible emission notations of the boilers (Boiler #2 and Boiler #3) stack exhausts shall be performed once per day during normal daylight operations when combusting fuel oil and 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.

Record Keeping and Reporting Requirements [326 IAC 2-8-4(3)][326 IAC 2-8-16]

D.1.10 Record Keeping Requirements

- (a) To document compliance with Conditions D.1.2, D.1.3, D.1.5, and D.1.8 the Permittee shall maintain records in accordance with (1) through (6) below. Note that pursuant to 40 CFR 60 Subpart Dc, the fuel oil sulfur limit applies at all times including periods of startup, shutdown, and malfunction.

- (1) Calendar dates covered in the compliance determination period;
- (2) Actual fuel oil usage since last compliance determination period and equivalent sulfur dioxide emissions;
- (3) A certification, signed by the owner or operator, that the records of the fuel supplier certifications represent all of the fuel combusted during the period, the natural gas fired boiler certification does require the certification by the “authorized individual” as defined by 326 IAC 2-1.1-1(1); and

If the fuel supplier certification is used to demonstrate compliance the following, as a minimum, shall be maintained:

- (4) Fuel supplier certifications;
- (5) The name of the fuel supplier; and
- (6) A statement from the fuel supplier that certifies the sulfur and ash content of the fuel oil.

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

- (b) To document compliance with Condition D.1.9, the Permittee shall maintain records of visible emission notations of the boiler stack exhausts daily.
- (c) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

D.1.11 NSPS Record Keeping Requirements [326 IAC 12-1][40 CFR 60.48c]

- (a) Pursuant to 40 CFR 60.48c(g) the Permittee shall record and maintain daily records of the amounts of each fuel combusted in each boiler.
- (b) Pursuant to 40 CFR 60.48c(i) all records required under this regulation shall be maintained by the Permittee for a period of two years following the date of such record.

D.1.12 Reporting Requirements

- (a) The natural gas boiler certification shall be submitted to the address listed in Section C - General Reporting Requirements, of this permit, using the reporting forms located at the end of this permit, or its equivalent, within thirty (30) days after the end of the six (6) month period being reported. The natural gas-fired boiler certification does require the certification by an “authorized individual” as defined by 326 IAC 2-1.1-1.

- (b) A quarterly summary of the information to document compliance with Conditions D.1.2, D.1.3, and D.1.5 shall be submitted to the addresses 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 an "authorized individual" as defined by 326 IAC 2-1.1-1.

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
And
VIGO COUNTY AIR POLLUTION CONTROL**

**FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP)
CERTIFICATION**

Source Name: Sisters Of Providence
Source Address: 3301 St. Mary's Road, St. Mary Of The Woods, Indiana 47876
Mailing Address: One Sisters of Providence, St. Mary Of The Woods, Indiana 47876
FESOP No.: F167-17745-00015

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:

Date:

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE BRANCH
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251
Phone: 317-233-5674
Fax: 317-233-5967
And
VIGO COUNTY AIR POLLUTION CONTROL
103 South 3rd Street
Terre Haute, Indiana 47807
Phone: 812-462-3433
Fax: 812-462-3447**

**FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP)
EMERGENCY OCCURRENCE REPORT**

Source Name: Sisters Of Providence
Source Address: 3301 St. Mary's Road, St. Mary Of The Woods, Indiana 47876
Mailing Address: One Sisters of Providence, St. Mary Of The Woods, Indiana 47876
FESOP No.: F167-17745-00015

This form consists of 2 pages

Page 1 of 2

- This is an emergency as defined in 326 IAC 2-7-1(12)
- The Permittee must notify the Office of Air Quality (OAQ) and VCAPC, within four (4) business hours (IDEM: 1-800-451-6027 or 317-233-5674, ask for Compliance Section, VCAPC: 812-462-3433); and
 - The Permittee must submit notice in writing or by facsimile within two (2) working days (IDEM Facsimile Number: 317-233-5967 and VCAPC Facsimile Number: 812-462-3447), 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 Describe:
Type of Pollutants Emitted: TSP, PM-10, SO ₂ , VOC, NO _x , CO, Pb, other:
Estimated amount of pollutant(s) emitted during emergency:
Describe the steps taken to mitigate the problem:
Describe the corrective actions/response steps taken:
Describe the measures taken to minimize emissions:
If applicable, describe the reasons why continued operation of the facilities are necessary to prevent imminent injury to persons, severe damage to equipment, substantial loss of capital investment, or loss of product or raw materials of substantial economic value:

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

A certification is not required for this report.

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE DATA SECTION
And
VIGO COUNTY AIR POLLUTION CONTROL**

**FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP)
QUARTERLY NATURAL GAS FIRED BOILER CERTIFICATION**

Source Name: Sisters Of Providence
Source Address: 3301 St. Mary's Road, St. Mary Of The Woods, Indiana 47876
Mailing Address: One Sisters of Providence, St. Mary Of The Woods, Indiana 47876
FESOP No.: F167-17745-00015

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

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

Attach a signed certification to complete this report.

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE DATA SECTION
And
VIGO COUNTY AIR POLLUTION CONTROL**

FESOP Quarterly Report

Source Name: Sisters Of Providence
Source Address: 3301 St. Mary's Road, St. Mary Of The Woods, Indiana 47876
Mailing Address: One Sisters of Providence, St. Mary Of The Woods, Indiana 47876
FESOP No.: F167-17745-00015
Facility: Boilers #2 and #3 Combined
Parameter: No. 2 Fuel Oil and Waste Oil Used
Limit: 2,700 kilo-gallons of fuel oil and waste oil total per 12 consecutive month period.

YEAR: _____

Month	Kilo-gallons of Fuel Oil and Waste Oil Used This Month	Kilo-gallons of Fuel Oil and Waste Oil Used Last 11 Months	Total Kilo-gallons of Fuel Oil and Waste Oil Used 12 Month Period
Month 1			
Month 2			
Month 3			

No deviation occurred in this quarter.

Deviation/s occurred in this quarter.

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
And
VIGO COUNTY AIR POLLUTION CONTROL**

FESOP Quarterly Report

Source Name: Sisters Of Providence
Source Address: 3301 St. Mary's Road, St. Mary Of The Woods, Indiana 47876
Mailing Address: One Sisters of Providence, St. Mary Of The Woods, Indiana 47876
FESOP No.: F167-17745-00015
Facility: Boilers #2 and #3 Combined
Parameter: Waste Oil
Limit: 875 kilo-gallons of waste oil total per 12 consecutive month period.

YEAR: _____

Month	Kilo-gallons of Waste Oil Used This Month	Kilo-gallons of Waste Oil Used Last 11 Months	Total Kilo-gallons of Waste Oil Used 12 Month Period
Month 1			
Month 2			
Month 3			

No deviation occurred in this quarter.

Deviation/s occurred in this quarter.

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
And
VIGO COUNTY AIR POLLUTION CONTROL**

**FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP)
QUARTERLY DEVIATION AND COMPLIANCE MONITORING REPORT**

Source Name: Sisters Of Providence
Source Address: 3301 St. Mary's Road, St. Mary Of The Woods, Indiana 47876
Mailing Address: One Sisters of Providence, St. Mary Of The Woods, Indiana 47876
FESOP No.: F167-17745-00015

Months: _____ to _____ Year: _____

Page 1 of 2

<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 ANo 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
and Vigo County**

**Technical Support Document (TSD) for a Minor Permit Revision to a
Federal Enforceable State Operating Permit (FESOP) Renewal**

Source Description and Location

Source Name: Sisters Of Providence
Source Location: One Sisters Of Providence, Saint Mary Of The Woods,
Indiana 47876
County: Vigo
SIC Code: 8221
Operation Permit No.: F167-17745-00015
Operation Permit Issuance Date: March 13, 2006
Minor Permit Revision No.: 167-24884-00015
Permit Reviewer: ERG/BL

The OAQ has received an application from Sisters Of Providence related to a modification to an existing comfort heating system for the motherhouse.

Existing Approvals

There have been no previous approvals issued since the FESOP Renewal 167-17745-00015 issued on March 13, 2006.

County Attainment Status

The source is located in Vigo County.

Pollutant	Status
PM10	Attainment
PM2.5	Attainment
SO ₂	Attainment
NO ₂	Attainment
8-hour Ozone	Attainment
CO	Attainment
Lead	Attainment

- (a) Vigo County has been classified as attainment for PM2.5. U.S. EPA has not yet established the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2 for PM 2.5 emissions. Therefore, until the U.S.EPA adopts specific provisions for PSD review for PM2.5 emissions, it has directed states to regulate PM10 emissions as a surrogate for PM2.5 emissions. See the State Rule Applicability – Entire Source section.
- (b) Volatile organic compounds (VOC) and Nitrogen Oxides (NOx) are regulated under the Clean Air Act (CAA) for the purposes of attaining and maintaining the National Ambient Air Quality Standards (NAAQS) for ozone. Therefore, VOC emissions and NOx emissions are considered when evaluating the rule applicability relating to ozone. Vigo County has been designated as attainment or unclassifiable for ozone. Therefore, VOC emissions and NOx emissions were reviewed pursuant to the requirements for Prevention of Significant

Deterioration (PSD), 326 IAC 2-2. See the State Rule Applicability – Entire Source section.

- (c) Vigo County has been classified as attainment in Indiana for all other NSR pollutants. Therefore, these emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2. See the State Rule Applicability – Entire Source section.
- (d) On October 25, 2006, the Indiana Air Pollution Control Board finalized a rule revision to 326 IAC 1-4-1 redesignating Delaware, Greene, Jackson, Vanderburgh, Vigo and Warrick Counties to attainment for the eight-hour ozone standard.
- (e) On October 25, 2006, the Indiana Air Pollution Control Board finalized a rule revision to 326 IAC 1-4-1 revoking the one-hour ozone standard in Indiana.
- (f) Fugitive Emissions
Since this type of operation is not in one of the twenty-eight (28) listed source categories under 326 IAC 2-2 or 326 IAC 2-3 and since there are no applicable New Source Performance Standards that were in effect on August 7, 1980, the fugitive emissions are not counted toward determination of PSD or Emission Offset applicability.

Source Status

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

Pollutant	Emissions (tons/year)
PM	2.76
PM10	4.71
SO ₂	99.9
VOC	1.24
CO	18.7
NO _x	30.4

- (a) This existing source is not a major stationary source, under PSD (326 IAC 2-2), because no regulated pollutant is emitted at a rate of 250 tons per year or more, and it is not in one of the twenty-eight (28) listed source categories, as specified in 326 IAC 2-2-1(gg)(1).
- (b) These emissions are based upon the TSD for FESOP Renewal No. 167-17745-00015 issued March 13, 2006.

Description of Proposed Revision

The Office of Air Quality (OAQ) has reviewed a modification application, submitted by Sisters of Providence on June 7, 2007, relating to the use of waste oil as a back-up fuel in the existing boilers (identified as Boilers #2 and #3) each rated at 25.4 MMBtu/hr and the construction and operation of four (4) waste oil storage tanks. The following is a list of the proposed emission units and pollution control devices:

Four (4) waste oil fuel storage tanks, approved for construction in 2007, each with a maximum capacity of 20,000 gallons, and a vapor pressure of less than 15.0 kPa, using no control, and venting directly to the atmosphere.

Enforcement Issues

IDEM is aware that the waste oil fuel storage tanks were constructed prior to receipt of the proper permit. IDEM is reviewing this matter and will take the appropriate action. This proposed approval is intended to satisfy the requirements of the construction permit rules.

Emission Calculations

See Appendix A of this document for detailed emission calculations.

Permit Level Determination - FESOP Revision

Pursuant to 326 IAC 2-7-1(29), Potential to Emit is defined as “the maximum capacity of a stationary source or emission unit 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, IDEM, or the appropriate local air pollution control agency.”

The following table is used to determine the appropriate permit level under 326 IAC 2-8.11.1. This table reflects the PTE before controls. Control equipment is not considered federally enforceable until it has been required in a federally enforceable permit.

Pollutant	PTE of revision (tons/year)	Limited PTE of revision (tons/year)
PM	85.4	24.6
PM10	68.1	19.6
SO ₂	79.4	21.9
VOC	1.66	0.51
CO	7.95	2.19
NO _x	30.2	8.31
HAPs	0.83	0.23

The FESOP is being modified through a FESOP Minor Permit Revision. This revision is being performed pursuant to 326 IAC 2-8-11.1(d)(5)(D) as the source will limit waste oil fuel usage to the existing boilers (identified as Boilers #2 and #3) to less than 875 kilo-gallons (kgal) per year. The source will limit the ash content, when combusting waste oil to less than 0.84 percent. Therefore, the potential to emit is limited to less than twenty-five (25) tons per year of any regulated pollutant.

The limited PTE show in the table above includes both waste oil combustion in Boilers #2 and #3 and VOC emissions from the waste oil storage tanks.

Permit Level Determination – FESOP

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

Process/Emission Unit	Potential To Emit (tons/year)						
	PM	PM10	SO ₂	VOC	CO	NO _x	HAPs
Boilers (#2, #3), Natural Gas (a)	0.41	1.66	0.13	1.20	18.3	21.8	0.41
Boilers (#2, #3), Limited Fuel Oil at 2,700 kgal/yr (b)	2.70	4.46	95.85	0.46	6.75	27.0	0.13
Boilers (#2, #3), Waste Oil at 875 kgal/yr (c)	24.6	19.6	21.9	0.44	2.19	8.31	0.23
Fuel Oil Storage (d)	-	-	-	0.02	-	-	-
New Waste Oil Storage (e)	-	-	-	0.07	-	-	-
Insignificant Activities	-	-	4.00	-	-	-	-
Total PTE of the Entire Source after Revision (f)	25.1	21.3	99.98	1.75	25.1	48.8	0.64
TV Major Thresholds	NA	100	100	100	100	100	10 for a single HAP and 25 for total HAPs

(a) = See pages 1 and 2 of Appendix A.

(b) = See pages 5 and 6 of Appendix A.

(c) = See pages 9 and 10 of Appendix A.

(d) = See page 11 of Appendix A.

(e) = See page 12 of Appendix A.

(f) = Total emissions reflect the worst case emissions on a pollutant-by pollutant basis between Limited Fuel Oil and Limited Waste Oil (worst-case in bold), combined with the unlimited PTE of Natural Gas, fuel and waste oil storage, and insignificant activities.

This revision to an existing minor stationary source is not major because the emissions increase is less than the PSD major source thresholds. Therefore, pursuant to 326 IAC 2-2, the PSD requirements do not apply.

After this revision, this source is still a minor source pursuant to the Part 70 Permit program.

Federal Rule Applicability Determination

- (a) There are no New Source Performance Standards (NSPS)(326 IAC 12 and 40 CFR Part 60) included in this proposed revision.
- (b) The requirements of the NSPS for Volatile Organic Liquid Storage Vessels (40 CFR Part 60, Subpart Kb) are not included in this proposed revision for the new waste oil storage tanks. Although they meet the definition of a storage vessel because the oil is classified as a volatile organic liquid and the tanks have a maximum capacity of 20,000 gallons (75.7 cubic meters); the fuel oil has a maximum vapor pressure of 0.04 kPa which is less than the vapor pressure threshold defined in 40 CFR 60.110b(b).
- (c) The requirements of the NSPS for Small Industrial-Commercial-Institutional Steam Generating Units (40 CFR 60, Subpart Dc) are not included in this proposed revision for Boiler #2 and Boiler #3. Operation Permit No. 167-17745-00015 issued March 13, 2006 includes all applicable standards, and the combustion of residual oil does not affect any

applicable standards. Residual oil is defined in 40 CFR 60.41c, waste oil is a residual oil.

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

State Rule Applicability Determination

326 IAC 2-8 (FESOP)

Prior to this revision, the unlimited PTE of SO₂ for this facility exceeded 100 tons per year, and the unlimited PTE of all other pollutants were below 100 tons per year. Therefore, pursuant to FESOP 167-7969-00015, issued on February 4, 1998, the input of No. 2 fuel oil was limited to less than 2,700 kilo-gallons per 12 consecutive month period with compliance determined at the end of each month. The unlimited PTE of PM10 for this modification exceeds 100 tons per year.

In order to maintain the FESOP status, the fuel oil limit has been modified to account for the combustion of either waste oil or No. 2 fuel oil. Information provided by the Permittee shows that the sulfur content of the waste oil is less than that of No. 2 fuel oil. Therefore, no fuel equivalency limit is necessary.

- (a) The input of No. 2 fuel oil and waste oil shall be less than 2,700 kilo-gallons per 12 consecutive month period with compliance determined at the end of each month.

Compliance with this limit will limit source-wide SO₂ and PM10 emissions to less than 100 tons per year and render the requirements of 326 IAC 2-7 (Title V) not applicable to the source.

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

The Permittee has proposed to modify Boilers #2 and #3 to allow for the combustion of waste oil. The requirements of 326 IAC 6-2 do not apply. The emission limitation under 326 IAC 6.5 prevails.

326 IAC 6.5-1-2 (Particulate emission limitations; fuel combustion steam generators, asphalt concrete plant, grain elevators, foundries, mineral aggregate operations; modification by commissioner)

This source and Boilers #2 and #3 are subject to 326 IAC 6.5-1-2 because they are located in Vigo county and are specifically listed in 326 IAC 6.5-9-13. This limit remain unchanged as a result of this modification.

Pursuant to this rule, the discharge of particulate matter from Boiler #2 and #3 shall not exceed 20.52 lb/hr and 89.9 tons/yr.

Emission calculations based on AP-42 emission factors indicate that the boilers are able to comply with this limit when burning distillate oil. To maintain compliance with 326 IAC 6.5-1-2 the source shall comply with the following ash content limit:

When combusting waste oil the ash content shall not exceed 0.84 percent.

326 IAC 7-1.1 (Sulfur Dioxide Emission Limitations)

Boilers #2 and #3 are subject to the requirements of 326 IAC 7-1.1 (Sulfur Dioxide Emission Limitations) because each boiler has the potential to emit SO₂ greater than twenty-five (25) tons per year. Waste oil is a residual oil.

Pursuant to 326 IAC 7-1.1-2(a)(2) neither Boiler #2 or #3 shall emit more than one and six-tenths (1.6) pounds per MMBtu while combusting residual oil.

Emission calculations based on AP-42 emission factors indicate that the boilers are able to comply with this limit.

Compliance Determination and Monitoring Requirements

The compliance monitoring shall remain unchanged as a result of this modification.

Proposed Changes

The changes listed below have been made to FESOP Renewal No. 167-17745-00015. Deleted language appears as ~~strike throughs~~ and new language appears in **bold**:

1. The Permittee has proposed to construct and operate four (4) waste oil storage tanks and modify Boilers #2 and #3 such that waste oil can be used of as a back-up fuel.

A.2 Emission Units and Pollution Control Equipment Summary [326 IAC 2-8-3(c)(3)]

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

- (a) Natural Gas Boiler (with fuel oil **or waste oil** backup), identified as Boiler #2, with a maximum heat input capacity of 25.4 million BTU per hour, using no control, and exhausting to stack 1.
- (b) Natural Gas Boiler (with fuel oil **or waste oil** backup), identified as Boiler #3, with a maximum heat input capacity of 25.4 million BTU per hour, using no control, and exhausting to stack 1.
- (c) Fuel oil storage tank, with a maximum capacity of 20,000 gallons, using no control, and venting directly to the atmosphere.
- (d) **Four (4) waste oil fuel storage tanks, approved for construction in 2007, each with a maximum capacity of 20,000 gallons, and a vapor pressure of less than 15.0 kPa, using no control, and venting directly to the atmosphere.**

SECTION D.1

FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-8-4(10)]:

- (a) Natural Gas Boiler (with fuel oil **or waste oil** backup), identified as Boiler #2, with a maximum heat input capacity of 25.4 million BTU per hour, using no control, and exhausting to stack 1.
- (b) Natural Gas Boiler (with fuel oil **or waste oil** backup), identified as Boiler #3, with a maximum heat input capacity of 25.4 million BTU per hour, using no control, and exhausting to stack 1.
- (c) Fuel oil storage tank, with a maximum capacity of 20,000 gallons, using no control, and venting directly to the atmosphere.
- (d) **Four (4) waste oil fuel storage tanks, approved for construction in 2007, each with a maximum capacity of 20,000 gallons, and a vapor pressure of less than 15.0 kPa, using no control, and venting directly to the atmosphere.**

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

2. IDEM, OAQ has revised the permit to provide the source the option to burn various alternate fuels in the existing boilers (identified as Boilers #2 and #3) and determine compliance with the existing fuel usage limit by adding fuel equivalency language. The quarterly report has been modified to include fuel equivalency language. Pursuant to 326 IAC 7-1.1, additional compliance requirements have been added for Boilers #2 and #3.

D.1.2 Fuel Oil Use Limitation [326 IAC 2-8]

Pursuant to FESOP 167-7969-00015, issued on February 4, 1998, the **input of combined No. 2 fuel oil and waste oil** input to Boiler #2 and Boiler #3 shall be less than 2,700,000 kilo-gallons per 12 consecutive month period with compliance determined at the end of each month.

...

D.1.5 Sulfur Dioxide (SO₂) [326 IAC 7-1.1-1] [326 IAC 12-1][40 CFR 60, Subpart Dc]

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

- (a) **When combusting distillate oil** ~~The~~ **the** SO₂ emissions from the boilers (Boiler #2 and Boiler #3) shall not exceed five tenths (0.5) pounds per million Btu heat input; ~~or~~
- (b) **When combusting residual oil the SO₂ emissions from the boilers (Boiler #2 and Boiler #3) shall not exceed one and six-tenths (1.6) pounds per million Btu heat input; or**
- ~~(b)~~(c) The sulfur content of the fuel oil **and residual oil** shall not exceed five-tenths percent (0.5%) by weight. [40 CFR 60.42c(d)]

...

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF AIR QUALITY
 COMPLIANCE DATA SECTION
 And
 VIGO COUNTY AIR POLLUTION CONTROL**

FESOP Quarterly Report

Source Name: Sisters of Providence
 Source Address: 3301 St. Mary's Road, St. Mary of the Woods, Indiana 47876
 Mailing Address: One Sisters of Providence, St. Mary of the Woods, Indiana 47876
 FESOP No.: F167-17745-00015
 Facility: Boilers #2 and #3 Combined
 Parameter: **#2 No. 2 Fuel Oil and Waste Oil Used**
 Limit: 2,700,000 **kilo-** gallons of fuel oil **and waste oil** total per 12 consecutive month period.

YEAR: _____

Month	Gallons Kilo-gallons of Fuel Oil and Waste Oil Used This Month	Gallons Kilo-gallons of Fuel Oil and Waste Oil Used Last 11 Months	Total Gallons Kilo-gallons of Fuel Oil and Waste Oil Used 12 Month Period
Month 1			
Month 2			
Month 3			

3. The source will limit annual waste oil fuel usage to the existing boilers (identified as Boilers #2 and #3) to less than 875 kilo-gallons (kgal). Therefore, the potential to emit is limited to less than twenty-five (25) tons per year of any regulated pollutant and pursuant to 326 IAC 2-8-11.1(d)(5), this revision will be processed as a minor permit revision.

The conditions in section D.1 have been renumbered. Reporting requirements and forms have been added to allow the Permittee to document compliance with the waste oil fuel usage limit.

D.1.3 Minor Modification Limit [326 IAC 2-8-11.1] [326 IAC 2-8]

Pursuant to 326 IAC 2-8-11.1(d)(5)(D) (Minor Permit Revision) and 326 IAC 2-8 (FESOP), the input of waste oil to Boiler #2 and Boiler #3 shall be less than 875 kilo-gallons (kgal) per 12 consecutive month period, with compliance determined at the end of each month.

(a) When combusting waste oil the ash content shall not exceed 0.84 percent.

Compliance with these limits shall render the requirements of 326 IAC 2-8-11.1(f) (Significant Permit Revision) and 326 IAC 2-7 (Title V) not applicable.

...

D.1.11 Reporting Requirements

...

(b) A quarterly summary of the information to document compliance with Conditions D.1.2, **D.1.3**, and D.1.5 shall be submitted to the addresses 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 an "authorized individual" as defined by 326 IAC 2-1.1-1.

...

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE DATA SECTION
And
VIGO COUNTY AIR POLLUTION CONTROL**

FESOP Quarterly Report

Source Name: Sisters of Providence
Source Address: 3301 St. Mary's Road, St. Mary of the Woods, Indiana 47876
Mailing Address: One Sisters of Providence, St. Mary of the Woods, Indiana 47876
FESOP No.: F167-17745-00015
Facility: Boilers #2 and #3 Combined
Parameter: Waste Oil
Limit: 875 kilo-gallons of waste oil total per 12 consecutive month period.

YEAR: _____

Month	Kilo-gallons of Waste Oil Used This Month	Kilo-gallons of Waste Oil Used Last 11 Months	Total Kilo-gallons of Waste Oil Used 12 Month Period
Month 1			
Month 2			
Month 3			

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

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

Attach a signed certification to complete this report.

4. The FESOP Renewal 167-17745-00015 included the requirements of NSPS for Volatile Organic Liquid Storage Vessels (40 CFR Part 60, Subpart Kb) for the fuel oil storage tank. Although, the existing fuel oil storage tank and the new waste oil storage tanks meet the definition of storage vessels they are not subject to the NSPS. Pursuant to 40 CFR 60.110b(b) the fuel oil storage tanks are not subject because the vapor pressure is below 15.0 kPa which is the threshold for tanks between 75 and 151 cubic meters. The conditions in section D.1 have been renumbered accordingly.

~~D.1.3 Volatile Organic Storage Vessels [40 CFR Part 60, Subpart Kb (1987 version)][326 IAC 12] [326 IAC 1-1-3 (2004 version)]~~

~~Pursuant to 326 IAC 1-1-3 (2004 version), 326 IAC 12 and 40 CFR Part 60, Subpart Kb (1987 version):~~

- ~~(a) The fuel oil storage tank is subject to 40 CFR Part 60, Subpart Kb because the maximum capacity of the tank is greater than 40 cubic meters and it is used to store volatile organic liquids for which construction, reconstruction, or modification commenced after July 23, 1984.~~

~~Pursuant to this rule, the Permittee must maintain records as required by 40 CFR part 60.116b(a) and 60.116b(b).~~

- ~~(b) The fuel oil storage tank is exempt from the General Provisions (Part 60, Subpart A) and from the provisions of subpart Kb, except as specified in 40 CFR Part 60.116b(a) and 60.116b(b), because the tank has a capacity between 75 cubic meters and 151 cubic meters storing a liquid with a maximum true vapor pressure less than 15.0 kPa.~~

~~These requirements are incorporated by reference per 326 IAC 1-1-3 (2004 version), which referenced the 40 CFR Part 60 July 1, 2002 edition, and are no longer federally enforceable.~~

...

~~D.1.9 Record Keeping Requirements~~

~~Pursuant to 40 CFR 60.116b (1987 version), 326 IAC 1-1-3 (2004 version) and 326 IAC 12:~~

- ~~(a) The owner or operator shall keep copies of all records required by 40 CFR Part 60.116b(a), except for the record required by 40 CFR 60.116b(b), for at least 2 years. The record required by 40 CFR 60.116b(b) will be kept for the life of the source.~~

- ~~(b) The owner or operator of each storage vessel as specified in 40 CFR 60.110b(a) shall keep readily accessible records showing the dimension of the storage vessel and an analysis showing the capacity of the storage vessel. Each storage vessel with a design~~

~~capacity less than 75 cubic meters is subject to no provision of this subpart other than those required by 40 CFR Part 60.110b(a).~~

~~These requirements are incorporated by references per 326 IAC 1-1-3 (2004 version), which referenced the 40 CFR Part 60 July 1, 2002 edition, and are no longer federally enforceable.~~

5. IDEM, OAQ has decided to remove the identification of the Responsible Official in Condition A.1. However, IDEM will continue to maintain records of the name, title, and contact information for the responsible official. The following change has been made to the permit:

A.1 General Information [326 IAC 2-8-3(b)]

The Permittee owns and operates a comfort heating system for the motherhouse.

Authorized individual: ~~Philip McCord, Director of Facilities Management~~

6. The specific mail codes (MC) for each of the IDEM branches has been added to the address to improve mail delivery, as follows:

Permits Branch: **MC 61-53 IGCN 1003**
Compliance Branch: **MC 61-53 IGCN 1003**
Air Compliance Section: **MC 61-53 IGCN 1003**
Compliance Data Section: **MC 61-53 IGCN 1003**
Asbestos Section: **MC 61-52 IGCN 1003**
Technical Support and Modeling: **MC 61-50 IGCN 1003**

7. The source is subject to 326 IAC 6.5-1-2 because it is located in Vigo County and Boiler #2 and #3 are specifically listed in 326 IAC 6.5-9-13. These limits were omitted from the Operation Permit No. 167-17745-00015 issued March 13, 2006. To maintain compliance with 326 IAC 6.5-1-2 a permit limit on ash content has been added.

The requirements of 326 IAC 6-2 do not apply to Boilers #2 and #3. The emission limitation under 326 IAC 6.5 prevails. The Renewal Permit No. 167-17745-00015 issued March 13, 2006 included limits under 326 IAC 6-2-4. The limit has been removed by IDEM, OAQ. The following change has been made to the permit:

~~D.1.4 Particulate Emission Limitations for Sources of Indirect Heating [326 IAC 6-2-4]~~

~~Pursuant to 326 IAC 6-2-4 (Particulate Emission Limitations for Sources of Indirect Heating: Emission limitations for facilities specified in 326 IAC 6-2-1(d)), the PM emissions from Boiler #2 and Boiler #3 shall not exceed 0.268 pound per million Btu heat input (lb/MMBtu). This limitation was calculated using the following equation:~~

~~$Pt = 1.09 / Q^{0.26}$ Where: Q = total source capacity (MMBtu/hr)~~

~~For these units, Q = 125.8 (MMBtu/hr).~~

D.1.4 Particulate Matter (PM) [326 IAC 6.5-9-13]

Pursuant to 326 IAC 6.5-9-13 (Particulate Matter Limitations Except Lake County), particulate matter (PM) emissions from Boiler #2 and #3 shall not exceed 20.52 lb/hr and 89.9 tons/yr.

...

D.1.8 Particulate Matter (PM) Emissions and Ash Content

Pursuant to 326 IAC 6.5-9-13 (Particulate Matter Limitations Except Lake County), the Permittee shall demonstrate compliance utilizing one of the following options:

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

- (b) Analyzing the oil sample to determine the ash content of the oil.**
- (1) Oil samples may be collected from the fuel tank immediately after the fuel tank is filled and before any oil is combusted; and**
 - (2) If a partially empty fuel tank is refilled, a new sample and analysis would be required upon filling.**

...

D.1.10 Record Keeping Requirements

- (a) To document compliance with Conditions D.1.2, **D.1.3**, and D.1.5 and **D.1.8**, the Permittee shall maintain records in accordance with (1) through (6) below. Note that pursuant to 40 CFR 60 Subpart Dc, the fuel oil sulfur limit applies at all times including periods of startup, shutdown, and malfunction.
- (1) Calendar dates covered in the compliance determination period;
 - (2) Actual fuel oil usage since last compliance determination period and equivalent sulfur dioxide emissions;
 - (3) A certification, signed by the owner or operator, that the records of the fuel supplier certifications represent all of the fuel combusted during the period, the natural gas fired boiler certification does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1); and

If the fuel supplier certification is used to demonstrate compliance the following, as a minimum, shall be maintained:

- (4) Fuel supplier certifications;
- (5) The name of the fuel supplier; and
- (6) A statement from the fuel supplier that certifies the sulfur **and ash** content of the fuel oil.

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

- (b) To document compliance with Condition ~~D.1.8~~**D.1.9**, the Permittee shall maintain records of visible emission notations of the boiler stack exhausts daily.
- (c) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

Conclusion and Recommendation

The construction of this proposed modification shall be subject to the conditions of the attached proposed FESOP Minor Permit Revision No. 167-24884-00015. The staff recommends to the Commissioner that this FESOP Minor Permit Revision be approved.

Appendix A: Emissions Calculations

Natural Gas
Boilers (#2 and #3)

Company Name: Sisters Of Providence
Address City IN Zip: 3301 St. Mary's Road, St. Mary Of The Woods, Indiana, 47876
Minor Permit Revision: 167-24884-00015
Reviewer: ERG/BL

25.4 Boiler #2 Max heat input
25.4 Boiler #3 Max heat input

Total Heat Input Capacity
MMBtu/hr 50.8
Potential Throughput
MMCF/yr 436

	Pollutant				
	PM*	PM10*	SO2	NOx	CO
Emission Factor in lb/MMCF	1.9	7.6	0.60	100.0 **see below	84.0
Potential to Emit in tons/yr	0.41	1.66	0.13	21.8	18.3

*PM emission factor is filterable PM only. PM10 emission factor is filterable and condensable PM combined.
**Emission Factors for NOx (Uncontrolled) = 100 lb/MMCF

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. [7/98]

Methodology

Potential Throughput (MMCF/yr) = Total Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1 MMCF/1,020 MMBtu
Potential to Emit (tons/yr) = Potential Throughput (MMCF/yr) x Emission Factor (lb/MMCF) x 1 ton/2,000 lb

See page 2 for HAP emissions calculations.

Appendix A: HAP Emissions Calculations
Natural Gas
Boilers (#2 and #3)

Company Name: Sisters Of Providence
Address City IN Zip: 3301 St. Mary's Road, St. Mary Of The Woods, Indiana, 47876
Minor Permit Revision: 167-24884-00015
Reviewer: ERG/BL

		HAPs - Organics			
Emission Factor in lb/MMcf	Benzene 2.1E-03	Dichlorobenzene 1.2E-03	Formaldehyde 7.5E-02	Hexane 1.8E+00	Toluene 3.4E-03
Potential to Emit in tons/yr	4.58E-04	2.62E-04	1.64E-02	3.93E-01	7.42E-04
		HAPs - Metals			
Emission Factor in lb/MMcf	Lead 5.0E-04	Cadmium 1.1E-03	Chromium 1.4E-03	Manganese 3.8E-04	Nickel 2.1E-03
Potential to Emit in tons/yr	1.09E-04	2.40E-04	3.05E-04	8.29E-05	4.58E-04

Methodology is the same as page 1.

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

Appendix A: Emissions Calculations
No. 2 Fuel Oil
Boilers (#2 and #3)

Company Name: Sisters Of Providence
Address City IN Zip: 3301 St. Mary's Road, St. Mary Of The Woods, Indiana, 47876
Minor Permit Revision: 167-24884-00015
Reviewer: ERG/BL

25.4 Boiler #2 Max heat input
 25.4 Boiler #3 Max heat input

Total Heat Input Capacity MMBtu/hr 50.8
 Potential Throughput kgals/yr 3,179
 S = Weight % Sulfur 0.5

	Pollutant				
	PM*	PM10	SO2	NOx	CO
Emission Factor in lb/kgal	2.0	3.3	71.0 (142.0S)	20.0	5.0
Potential to Emit in tons/yr	3.18	5.24	113	31.8	7.95
Potential to Emit in lb/MMBtu **	0.01	-	0.5	-	-
Potential to Emit in lb/hr **	0.73	-	-	-	-

*PM emission factor is filterable PM only. PM10 emission factor is filterable and condensable PM combined, the condensable PM emission factor is 1.3 lb/kgal.
 ** Boilers (#2 and #3) are able to comply with 326 IAC 7-1.1-2(a)(3), 326 IAC 6-2-4, and 326 IAC 6.5-9-13 limits

Emission Factors are from AP 42, Tables 1.3-1, and 1.3-2 (SCC 1-03-005-01/02/03) [9/98].

Applicable standards	Limit
326 IAC 7-1.1-2(a)(2)	0.5 lbs/MMBtu of SO2
326 IAC 6-2-4	0.39 lbs/MMBtu of PM
326 IAC 6.5-9-13.	20.52 lb/hr of PM

Methodology
 1 gallon of No. 2 Fuel Oil has a heating value of 140,000 Btu
 Potential Throughput (kgals/year) = Total Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1kgal/1,000 gallon x 1 gal/0.140 MM Btu
 Potential to Emit (tons/yr) = Potential Throughput (kgals/yr) x Emission Factor (lb/kgal) x 1 ton/2,000 lb

See page 4 for HAP emission calculations.

Appendix A: HAP Emissions Calculations

No. 2 Fuel Oil
Boilers (#2 and #3)

Company Name: Sisters Of Providence
Address City IN Zip: 3301 St. Mary's Road, St. Mary Of The Woods, Indiana, 47876
Minor Permit Revision: 167-24884-00015
Reviewer: ERG/BL

HAPs - Metals					
	Arsenic	Barium	Cadmium	Chromium	Lead
Emission Factor in lb/kgal	1.3E-03	2.6E-03	4.0E-04	8.5E-04	1.5E-03
Potential to Emit in tons/yr	2.10E-03	4.08E-03	6.33E-04	1.34E-03	2.40E-03

HAPs - Metals (continued)				
	Mercury	Manganese	Nickel	Selenium
Emission Factor in lb/kgal	1.1E-04	3.0E-03	8.5E-02	6.8E-04
Potential to Emit in tons/yr	1.80E-04	4.77E-03	0.13	1.09E-03

Methodology is the same as page 3.

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

Appendix A: HAP Emissions Calculations
No. 2 Fuel Oil, Limited
Boilers (#2 and #3)

Company Name: Sisters Of Providence
Address City IN Zip: 3301 St. Mary's Road, St. Mary Of The Woods, Indiana, 47876
Minor Permit Revision: 167-24884-00015
Reviewer: ERG/BL

		HAPs - Metals				
		Arsenic	Barium	Cadmium	Chromium	Lead
Emission Factor in lb/kgal		1.3E-03	2.6E-03	4.0E-04	8.5E-04	1.5E-03
Limited Potential to Emit in tons/yr		1.78E-03	3.47E-03	5.37E-04	1.14E-03	2.04E-03

		HAPs - Metals (continued)			
		Mercury	Manganese	Nickel	Selenium
Emission Factor in lb/kgal		1.1E-04	3.0E-03	8.5E-02	6.8E-04
Limited Potential to Emit in tons/yr		1.53E-04	4.05E-03	0.11	9.22E-04

Methodology is the same as page 5.

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

Appendix A: Emissions Calculations
Waste Oil
Boilers (#2 and #3)

Company Name: Sisters Of Providence
Address City IN Zip: 3301 St. Mary's Road, St. Mary Of The Woods, Indiana, 47876
Minor Permit Revision: 167-24884-00015
Reviewer: ERG/BL

25.4 Boiler #2 Max heat input
 25.4 Boiler #3 Max heat input

Waste Oil Analysis:**
 Percent Ash Content (A) = 0.84
 Percent Sulfur Content (S) = 0.34
 Percent Lead Content (L) = 7.34E-04
 Percent Chlorine Content (Cl) = 4.00E-03

Total Heat Input Capacity
 MMBtu/hr
 50.8

Potential Throughput
 kgals/year
 3,179

	Pollutant					
	PM**	PM10	SO2	NOx	VOC	CO
Emission Factor in lb/kgal	53.8 (64.0A)	42.8 (51.0A)	49.98 (147.0S)	19.0	1.00	5.0
Potential to Emit in tons/yr	85	68	79	30.2	1.59	7.95
Potential to Emit in lb/MMBtu ***	0.38	-	0.36	-	-	-
Potential to Emit in lb/hr ***	19.5	-	-	-	-	-

* Analysis of waste oil provided by the permittee.

** PM emission factor is filterable PM only.

*** Boilers (#2 and #3) are able to comply with 326 IAC 7-1.1-2(a)(2), but not the PM limits in 326 IAC 6-2-4 or 326 IAC 6.5-9-13.

Emission Factors are from AP 42, Tables 1.11-1, 1.11-2, and 1.11-3 (SCC 1-03-013-02) [10/96]

Methodology

1 gallon of Waste Oil has a heating value of 140,000 Btu

Potential Throughput (kgals/year) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1kgal/1,000 gallon x 1 gal/0.140 MM Btu

Potential to Emit (tons/yr) = Potential Throughput (kgals/yr) x Emission Factor (lb/kgal) x 1 ton/2,000 lb

See page 8 for HAPs emission calculations.

Applicable standards	Limit
326 IAC 7-1.1-2(a)(2)	1.6 lbs/MMBtu of SO2
326 IAC 6-2-4	0.39 lbs/MMBtu of PM
326 IAC 6.5-9-13.	20.52 lb/hr of PM

Appendix A: HAP Emissions Calculations

**Waste Oil
Boilers (#2 and #3)**

**Company Name: Sisters Of Providence
Address City IN Zip: 3301 St. Mary's Road, St. Mary Of The Woods, Indiana, 47876
Minor Permit Revision: 167-24884-00015
Reviewer: ERG/BL**

		HAPs - Metals				
		Arsenic	Cadmium	Chromium	Cobalt	Manganese
Emission Factor in lb/kgal		0.11	9.3E-03	0.02	2.10E-04	0.07
Potential to Emit in tons/yr		0.17	0.01	0.03	3.34E-04	0.11

		HAPs - Metals (continued)		
		Nickel	HCl	Lead
Emission Factor in lb/kgal		0.01	0.26 (66.0Cl)	0.04 (55.0L)
Potential to Emit in tons/yr		0.02	0.42	0.06

Methodology

No data was available in AP-42 for organic HAPs.
 Potential Emissions (tons/year) = Throughput (mmBtu/hr)*Emission Factor (lb/mmBtu)*8,760 hrs/yr / 2,000 lb/ton

Appendix A: Emissions Calculations
Waste Oil, Limited
Boilers (#2 and #3)

Company Name: Sisters Of Providence
Address City IN Zip: 3301 St. Mary's Road, St. Mary Of The Woods, Indiana, 47876
Minor Permit Revision: 167-24884-00015
Reviewer: ERG/BL

25.4 Boiler #2 Max heat input
 25.4 Boiler #3 Max heat input

Waste Oil Analysis:*
 Percent Ash Content (A) = 0.88
 Percent Sulfur Content (S) = 0.34
 Percent Lead Content (L) = 7.34E-04
 Percent Chlorine Content (Cl) = 4.00E-03

Total Heat Input Capacity
 MMBtu/hr
 50.8

Limited Throughput
 kgals/yr
 875

		Pollutant				
Emission Factor in lb/kgal	PM**	PM10	SO2	NOx	VOC	CO
	56.3 (64.0A)	44.9 (51.0A)	49.98 (147.0S)	19.0	1.00	5.0
Limited Potential to Emit in tons/yr	24.6	19.64	21.87	8.31	0.44	2.19

* Analysis of waste oil provided by the permittee.
 ** PM emission factor is filterable PM only.

Emission Factors are from AP 42, Tables 1.11, 1.11-2, and 1.11-3 (SCC 1-03-013-02) [10/96]

Methodology

1 gallon of Waste Oil has a heating value of 140,000 Btu
 Limited Potential to Emit (tons/yr) = Limited Throughput (kgals/yr) x Emission Factor (lb/kgal) x 1 ton/2,000 lb

See page 10 for HAP emission calculations.

Appendix A: HAP Emissions Calculations

Waste Oil, Limited
Boilers (#2 and #3)

Company Name: Sisters Of Providence
Address City IN Zip: 3301 St. Mary's Road, St. Mary Of The Woods, Indiana, 47876
Minor Permit Revision: 167-24884-00015
Reviewer: ERG/BL

HAPs - Metals					
	Arsenic	Cadmium	Chromium	Cobalt	Manganese
Emission Factor in lb/kgal	0.11	9.3E-03	0.02	2.10E-04	0.07
Limited Potential to Emit in tons/yr	0.05	0.00	0.01	9.19E-05	0.03

HAPs - Metals (continued)			
	Nickel	HCl	Lead
Emission Factor in lb/kgal	0.01	0.26 (66.0Cl)	0.04 (55.0L)
Limited Potential to Emit in tons/yr	0.00	0.12	0.02

Methodology is the same as page 7.

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

**Appendix A: VOC Emissions Calculations
Fuel Oil Storage Tank**

Company Name: Sisters Of Providence
Address City IN Zip: 3301 St. Mary's Road, St. Mary Of The Woods, Indiana, 47876
Minor Permit Revision: 167-24884-00015
Reviewer: ERG/BL

TANKS2 Calculation Output

Summary of Output Data

Identification		Liquid Contents of Storage Tank	
Identification number:	Fuel Oil Storage Tank	Mixture/Component	Distillate fuel oil no. 2
City:	St. Mary of the Woods	Month	All
State:	Indiana	Daily Temp Avg. (F)	53.68
Company:	Sisters of Providence	Liq Surf Temp. Min. (F)	48.73
Type of Tank:	Horizontal Fixed Fixed Roof	Liq Surf Temp. Max. (F)	58.63
		Liq Bulk Temp. (F)	52.12
Tank Dimensions		Vap Pressure (psia, avg)	0.0052
Shell Height (ft):	31	Vap Pressure (psia, min)	0.0044
Diameter (ft):	11	Vap Pressure (psia, max)	0.0062
Liquid Height (ft):	30	Vapor Mol. Weight	130
Avg. Liquid Height (ft):	15		
Volume (gallons):	20,000	Basis for Calculator:	Option 4
Turnovers:	394		
Net Throughput (gal/yr):	7,870,000		
		Individual Tank Emission Totals	
Paint Characteristics		Liquid Contents	Distillate fuel oil no.2
Shell Color/Shade:	White/White	Standing Losses (lb)	3.27
Shell Condition:	Good	Withdrawal Losses (lb)	31.06
Roof Color/Shade:	White/White	Total (lb)	34.33
Roof Condition:	Good	Total (ton)	0.017165
Roof Characteristics		Annual Emission:	
Type:	Dome	Distillate fuel oil no.2	
Height (ft):	0	Working Losses (lbs/yr)	31.44
Radius (ft) (dome roof):	6	Breathing Losses (lbs/yr)	3.05
Slope (ft/ft) (cone roof):	0	Total Emissions (lbs/yr)	34.49
Breather Vent Settings		Total VOC Emissions (tons/yr)	0.02
Vacuum Setting (psig):	0		
Pressure Setting (psig):	0		
Met Data Used in Calculations:	Indianapolis, Indiana		

**Appendix A: VOC Emissions Calculations
Waste Oil Storage Tank**

Company Name: Sisters Of Providence
Address City IN Zip: 3301 St. Mary's Road, St. Mary Of The Woods, Indiana, 47876
Minor Permit Revision: 167-24884-00015
Reviewer: ERG/BL

TANKS2 Calculation Output

Summary of Output Data

Identification		Liquid Contents of Storage Tank	
Identification number:	Waste Oil Storage Tank	Mixture/Component	Distillate fuel oil no. 2 *
City:	St. Mary of the Woods	Month	All
State:	Indiana	Daily Temp Avg. (F)	54.01
Company:	Sisters of Providence	Liq Surf Temp. Min. (F)	48.91
Type of Tank:	Horizontal Fixed Fixed Roof	Liq Surf Temp. Max. (F)	59.11
		Liq Bulk Temp. (F)	52.28
Tank Dimensions		Vap Pressure (psia, avg)	0.0053
Shell Height (ft):	31	Vap Pressure (psia, min)	0.0045
Diameter (ft):	11	Vap Pressure (psia, max)	32
Liquid Height (ft):	30	Vapor Mol. Weight	180
Avg. Liquid Height (ft):	15		
Volume (gallons):	20,000	Basis for Calculator:	Option 5
Turnovers:	394		
Net Throughput (gal/yr):	7,870,000		
		Individual Tank Emission Totals	
Paint Characteristics		Liquid Contents	Distillate fuel oil no.2
Shell Color/Shade:	White/White	Standing Losses (lb)	3.27
Shell Condition:	Good	Withdrawal Losses (lb)	31.06
Roof Color/Shade:	White/White	Total (lb)	34.33
Roof Condition:	Good	Total (ton)	0.017165
Roof Characteristics		Annual Emissions from a single tank:	
Type:	Dome	Distillate fuel oil no.2	
Height (ft):	0	Working Losses (lbs/yr)	31.4
Radius (ft) (dome roof):	6	Breathing Losses (lbs/yr)	3.05
Slope (ft/ft) (cone roof):	0	Total Emissions (lbs/yr)	34.5
		Total Emissions (tons/yr)	0.02
Breather Vent Settings		Total Emissions (lbs/yr)	138
Vacuum Setting (psig):	-0.03	Total VOC Emissions (tons/yr)	0.07
Pressure Setting (psig):	0.03		
Met Data Used in Calculations:	Indianapolis, Indiana		

* Waste oil is blended with distillate oil.

Company Name: Sisters Of Providence
 Address City IN Zip: 3301 St. Mary's Road, St. Mary Of The Woods, Indiana, 47876
 Minor Permit Revision#: 167-24884-00015
 Reviewer: ERG/BL

1. Potential to Emit of Entire Source Prior To The Proposed Modification

	Pollutant (tons/yr)							
	PM	PM10	SO2	NOx	VOC	CO	Single HAP	Total HAPs
Boilers (#2, #3) Natural Gas	0.41	1.66	0.13	21.8	1.20	18.3	0.39	0.41
Boilers (#2, #3) Limited Fuel Oil	2.70	4.46	95.85	27.0	0.46	6.75	0.11	0.13
Fuel Oil Storage	-	-	-	-	0.02	-	-	-
Insignificant Activities **	-	-	4.00	-	-	-	-	-
Total ***	3.11	6.11	99.98	48.8	1.68	25.1	0.51	0.54

* Boilers #2 and #3 burn natural gas and can burn fuel oil as a backup. Pursuant to 326 IAC 2-8, the fuel oil usage is limited to 2,700 kgal/yr.
 ** See renewal permit No. 167-17745-00015 for additional details regarding the insignificant activities.
 *** Total emission includes the limited PTE of Fuel Oil, and the unlimited PTE of Natural Gas.

2. Unlimited Potential to Emit from Waste Oil Combustion and New Storage Tanks

	Pollutant (tons/yr)							
	PM	PM10	SO2	NOx	VOC	CO	Single HAP	Total HAPs
Boilers Waste Oil*	85.4	88.1	79.4	30.2	1.59	7.95	0.42	0.83
New Waste Oil Storage	-	-	-	-	0.07	-	-	-
Total	85.4	88.1	79.4	30.2	1.68	7.9	0.42	0.83

* The potential to emit if waste oil was burned exclusively.

3. Pursuant to 326 IAC 2-8-11.(c)(5), Limited Potential to Emit of The Proposed Modification (Including New and Limited / Modified Emission Units)

	Pollutant (tons/yr)							
	PM	PM10	SO2	NOx	VOC	CO	Single HAP	Total HAPs
Boilers, Limited Waste Oil*	24.6	19.6	21.9	8.31	0.44	2.19	0.12	0.23
New Waste Oil Storage	-	-	-	-	0.07	-	-	-
Total	24.6	19.6	21.9	8.31	0.51	2.19	0.12	0.23
Significant Permit Revision Level	less than 25	less than 25	less than 25	less than 25	less than 25	less than 25	less than 10	less than 25

* Pursuant to 326 IAC 2-8-11.(c)(5), the waste oil input is limited to 875 kgal/yr.

4. Potential to Emit of Entire Source After The Proposed Modification (FESOP Limit Revised)

	Pollutant (tons/yr)							
	PM	PM10	SO2	NOx	VOC	CO	Single HAP	Total HAPs
Boilers (#2, #3) Natural Gas	0.41	1.66	0.13	21.8	1.20	18.3	0.39	0.41
Boilers (#2, #3) Limited Fuel Oil	2.70	4.46	95.85	27.0	0.46	6.75	0.11	0.13
Boilers (#2, #3) Limited Waste Oil	24.6	19.6	21.9	8.31	0.44	2.19	0.12	0.23
Fuel Oil Storage	-	-	-	-	0.02	-	-	-
New Waste Oil Storage	-	-	4.00	-	0.07	-	-	-
Insignificant Activities **	-	-	-	-	-	-	-	-
Total **	25.1	21.3	99.98	48.8	1.75	25.1	0.61	0.64

* See renewal permit No. 167-17745-00015 for additional details regarding the insignificant activities.

** Total emissions reflect the worst case emissions on a pollutant-by-pollutant basis between Limited Fuel Oil and Limited Waste Oil, and the unlimited PTE of Natural Gas, fuel and waste oil storage, and insignificant activities.

