



Mitchell E. Daniels, Jr.  
Governor

Thomas W. Easterly  
Commissioner

100 North Senate Avenue  
Indianapolis, Indiana 46204  
(317) 232-8603  
(800) 451-6027  
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TO: Interested Parties / Applicant  
DATE: August 10, 2006  
RE: Floyd Memorial Hospital / 043-22368-00016  
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 13-15-5-3, this permit is effective immediately, unless a petition for stay of effectiveness is filed and granted according to IC 13-15-6-3, 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 and IC 13-15-6-1 require that you file a petition for administrative review. This petition may include a request for stay of effectiveness and must be submitted to the Office of Environmental Adjudication, 100 North Senate Avenue, Government Center North, Room 1049, Indianapolis, IN 46204, **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  
FNPER.dot 03/23/06



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100 North Senate Avenue  
Indianapolis, Indiana 46204-2251  
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**NEW SOURCE REVIEW AND  
FEDERALLY ENFORCEABLE STATE  
OPERATING PERMIT (FESOP)  
OFFICE OF AIR QUALITY**

**Floyd Memorial Hospital  
1850 State Street  
New Albany, Indiana 47150**

(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. This permit also addresses new source review requirements and is intended to fulfill the new source review procedures and permit revision requirements pursuant to 326 IAC 2-8-11.1, applicable to those conditions.

Operation Permit No.: FESOP 043-22368-00016	
Issued by: Original signed by Nisha Sizemore, Chief Permits Branch Office of Air Quality	Issuance Date: August 10, 2006 Expiration Date: August 10, 2011

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## SECTION A SOURCE SUMMARY

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

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

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The Permittee owns and operates a stationary hospital.

Authorized individual:	Mark Truman
Source Address:	1850 State Street, New Albany, IN 47150
Mailing Address:	1850 State Street, New Albany, IN 47150
General Source Phone:	812-949-5501
SIC Code:	8062
Source Location Status:	Nonattainment for 8 hour Ozone and PM 2.5 Attainment for all other criteria pollutants
Source Status:	Federally Enforceable State Operating Permit (FESOP) Minor Source, under PSD and Emission Offset Rules 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)]

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

- (a) Four (4) natural gas-fired boilers, identified as Boiler #1, Boiler #2, Boiler #3, and Boiler #4, with Boiler #1, Boiler #2, and Boiler #3 constructed in 1962, 1987, and 1981, respectively, and Boiler #4 to be constructed in 2006, each with a maximum heat input capacity of 14.7 million British thermal units (MMBtu) per hour, each using No. 2 fuel oil burner as back-up, and each exhausting to stacks 1, 2, 3, and 4, respectively;
- (b) Three (3) emergency generators, with one generator constructed in 1996, and two generators to be constructed in 2006, combusting No. 2 fuel oil, with maximum capacities of 1073 HP, 2220 HP, and 2220 HP, respectively, and each limited to a maximum of 500 hours of operation per year.

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

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

- (a) Four (4) Steris Model 3017 ETO Sterilizers, installed in May 2003, running one cycle per day, each using 100 grams of Ethylene Oxide per cycle; and
- (b) Three (3) underground No. 2 fuel oil storage tanks, all constructed in 1996, with maximum capacities of 20,000 gallons, 2,500 gallons, and 5,000 gallons, respectively.

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

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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) for a Federally Enforceable State Operating Permit (FESOP).

## **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]**

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

### **B.5 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, within a reasonable time, any information that IDEM, OAQ, may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. The submittal by the Permittee does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1). Upon request, the Permittee shall also furnish to IDEM, OAQ, copies of records required to be kept by this permit.
- (b) For information furnished by the Permittee to IDEM, OAQ, the Permittee may include a claim of confidentiality in accordance with 326 IAC 17.1 when furnishing copies of requested records directly to U. S. EPA, the Permittee may assert a claim of confidentiality in accordance with 40 CFR 2, Subpart B.

### **B.9 Compliance Order Issuance [326 IAC 2-8-5(b)]**

IDEM, OAQ 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. The initial certification shall cover the time period from the date of final permit issuance through December 31 of the same year. All subsequent 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 April 15 of each year to:

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

- (b) The annual compliance certification report required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ, on or before the date it is due.
- (c) The annual compliance certification report shall include the following:
  - (1) The appropriate identification of each term or condition of this permit that is the basis of the certification;
  - (2) The compliance status;
  - (3) Whether compliance was continuous or intermittent;
  - (4) The methods used for determining the compliance status of the source, currently and over the reporting period consistent with 326 IAC 2-8-4(3); and
  - (5) Such other facts as specified in Sections D of this permit, IDEM, OAQ, 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) The Permittee shall prepare and maintain Preventive Maintenance Plans (PMPs) within ninety (90) days after issuance of this permit, for the source as described in 326 IAC 1-6-3. At a minimum, the PMPs shall include:
- (1) Identification of the individual(s) responsible for inspecting, maintaining, and repairing emission control devices;
  - (2) A description of the items or conditions that will be inspected and the inspection schedule for said items or conditions; and
  - (3) Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.

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

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

The PMP extension notification does not require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (b) A copy of the PMPs shall be submitted to IDEM, OAQ, upon request and within a reasonable time, and shall be subject to review and approval by IDEM, OAQ. IDEM, OAQ, may require the Permittee to revise its PMPs whenever lack of proper maintenance causes or is the primary contributor to an exceedance of any limitation on emissions or potential to emit. The PMPs do not require the certification by the "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, within four (4) daytime business hours after the beginning of the emergency, or after the emergency was discovered or reasonably should have been discovered;

Telephone No.: 1-800-451-6027 (ask for Office of Air Quality, Compliance Section) or,  
Telephone No.: 317-233-0178 (ask for Compliance Section)  
Facsimile No.: 317-233-6865

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

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

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

The notice fulfills the requirement of 326 IAC 2-8-4(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, 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, 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 Prior Permits Superseded [326 IAC 2-1.1-9.5]**

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- (a) All terms and conditions of permits established prior to 043-22368-00016 and 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.

**B.15 Deviations from Permit Requirements and Conditions [326 IAC 2-8-4(3)(C)(ii)]**

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- (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  
Indianapolis, Indiana 46204-2251

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

The Quarterly Deviation and Compliance Monitoring Report does require the certification by the "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.16 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]

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- (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 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, 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, at least thirty (30) days in advance of the date this permit is to be reopened, except that IDEM, OAQ, may provide a shorter time period in the case of an emergency. [326 IAC 2-8-8(c)]

**B.17 Permit Renewal [326 IAC 2-8-3(h)]**

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- (a) The application for renewal shall be submitted using the application form or forms prescribed by IDEM, OAQ and shall include the information specified in 326 IAC 2-8-3. 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  
Indianapolis, IN 46204-2251

- (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, on or before the date it is due.
  - (2) If IDEM, OAQ 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 takes final action on the renewal application, except that this protection shall cease to apply if, subsequent to the completeness determination, the Permittee fails to submit by the deadline specified in writing by IDEM, OAQ, any additional information identified as needed to process the application.

B.18 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  
Indianapolis, Indiana 46204-2251

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.19 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  
Indianapolis, Indiana 46204-2251

and

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

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

- (5) The Permittee maintains records on-site, on a rolling five (5) year basis, which document all such changes and emission trades that are subject to 326 IAC 2-8-15(b) through (d). The Permittee shall make such records available, upon reasonable request, for public review.

Such records shall consist of all information required to be submitted to IDEM, OAQ, in the notices specified in 326 IAC 2-8-15(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 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.20 Source Modification Requirement [326 IAC 2-8-11.1]**

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

B.21 Inspection and Entry [326 IAC 2-8-5(a)(2)][IC 13-14-2-2][IC 13-17-3-2][IC 13-30-3-1]

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

- (a) Enter upon the Permittee's premises where a 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.22 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  
Indianapolis, Indiana 46204-2251  
  
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.23 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 317-233-4230 (ask for OAQ, Billing, Licensing, and Training Section), to determine the appropriate permit fee.

B.24 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 [326 IAC 6-3-2]**

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

**C.2 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) The 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. This limitation shall make the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) not applicable.

(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]

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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)]

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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]

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

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

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

All required notifications shall be submitted to:

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

The notice shall include a signed certification from the owner or operator that the information provided in this notification is correct and that only Indiana licensed workers and project supervisors will be used to implement the asbestos removal project. The notifications do not require a certification by the "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.8 Performance Testing [326 IAC 3-6]**

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

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

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

no later than thirty-five (35) days prior to the intended test date. The protocol submitted by the Permittee does not require certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (b) The Permittee shall notify IDEM, OAQ of the actual test date at least fourteen (14) days prior to the actual test date. The notification submitted by the Permittee does not require certification by the "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 not later than forty-five (45) days after the completion of the testing. An extension may be granted by IDEM, OAQ, if the Permittee submits to IDEM, OAQ, a reasonable written explanation not later than five (5) days prior to the end of the initial forty-five (45) day period.

## **Compliance Requirements [326 IAC 2-1.1-11]**

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

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

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

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

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

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).

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

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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.12 Risk Management Plan [326 IAC 2-8-4] [40 CFR 68]**

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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.13 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.14 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, within thirty (30) days of receipt of the test results. The Permittee shall take appropriate action to minimize excess emissions from the affected facility while the response actions are being implemented.
- (b) A retest to demonstrate compliance shall be performed within one hundred twenty (120) days of receipt of the original test results. Should the Permittee demonstrate to IDEM, OAQ that retesting in one-hundred and twenty (120) days is not practicable, IDEM, OAQ may extend the retesting deadline.
- (c) IDEM, OAQ reserves the authority to take any actions allowed under law in response to noncompliant stack tests.

The response action documents submitted pursuant to this condition do require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

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

### **C.15 General Record Keeping Requirements [326 IAC 2-8-4(3)] [326 IAC 2-8-5]**

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

### **C.16 General Reporting Requirements [326 IAC 2-8-4(3)(C)] [326 IAC 2-1.1-11]**

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- (a) The source 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 Branch, Office of Air Quality  
100 North Senate Avenue  
Indianapolis, Indiana 46204-2251
- (c) Unless otherwise specified in this permit, any notice, report, or other submission required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ, on or before the date it is due.
- (d) Unless otherwise specified in this permit, all reports required in Section D of this permit shall be submitted within thirty (30) days of the end of the reporting period. All reports do require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (e) The first report covered the period commencing on the date of issuance of the original FESOP and ended on the last day of the reporting period. All subsequent reporting periods shall be 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.17 Compliance with 40 CFR 82 and 326 IAC 22-1**

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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) Four (4) natural gas-fired boilers, identified as Boiler #1, Boiler #2, Boiler #3, and Boiler #4, with Boiler #1, Boiler #2 and Boiler #3 constructed in 1962, 1987, and 1981, respectively, and Boiler #4 to be constructed in 2006, each with a maximum heat input capacity of 14.7 million British thermal units (MMBtu) per hour, each using No. 2 fuel oil burner as back-up, and each exhausting to stacks 1, 2, 3, and 4, respectively;

(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 Particulate Matter (PM) [326 IAC 6-2-3]

- (a) Pursuant to 326 IAC 6-2-3 (Particulate Matter Emission Limitations for Sources of Indirect Heating), the PM emissions from Boiler # 1, rated at 14.7 MMBtu/hr shall be limited to the lesser of 0.8 lbs per MMBtu.
- (b) Pursuant to 326 IAC 6-2-3 (Particulate Matter Emission Limitations for Sources of Indirect Heating), the PM emissions from Boiler # 3, rated at 14.7 MMBtu/hr shall be limited to the lesser of 0.6 lbs per MMBtu.

#### D.1.2 Particulate Matter (PM) [326 IAC 6-2-4]

- (a) Pursuant to 326 IAC 6-2-4 (Particulate Matter Emission Limitations for Sources of Indirect Heating), the PM emissions from Boiler # 2, rated at 14.7 MMBtu per hour shall be limited to 0.41 pounds per MMBtu heat input. This limitation is based on the Pt from the following equation:

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

Where: Pt = maximum allowable particulate matter (PM) emitted per MMBtu heat input  
Q = total source maximum indirect heater input = 44.1 MMBtu/hr

- (b) Pursuant to 326 IAC 6-2-4 (Particulate Matter Emission Limitations for Sources of Indirect Heating), the PM emissions from Boiler # 4, rated at 14.7 MMBtu per hour shall be limited to 0.38 pounds per MMBtu heat input. This limitation is based on the Pt from the following equation:

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

Where: Pt = maximum allowable particulate matter (PM) emitted per MMBtu heat input  
Q = total source maximum indirect heater input = 58.8 MMBtu/hr

#### D.1.3 Sulfur Dioxide (SO<sub>2</sub>) [326 IAC 7-1.1-1] [326 IAC 7-2-1] [40 CFR 60.40c]

Pursuant to 326 IAC 7-1.1 (SO<sub>2</sub> Emissions Limitations) the SO<sub>2</sub> emissions from the four (4) 14.7 MMBtu per hour boilers shall not exceed five tenths (0.5) pounds per MMBtu heat input. Pursuant to 326 IAC 7-2-1, compliance shall be demonstrated on a calendar month average.

**D.1.4 Fuel Usage Limitation [326 IAC 2-8-4]**

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Pursuant to 326 IAC 2-8-4(1), the following limits shall apply:

The total input of No. 2 fuel oil to the four (4) 14.7 MMBtu/hr boilers (Boiler #1, Boiler #2, Boiler #3, and Boiler #4) shall be limited to less than 2,653,000 U.S. gallons per twelve (12) consecutive month period with compliance determined at the end of each month. This usage limit is required to limit the potential to emit sulfur dioxide (SO<sub>2</sub>) from the source to less than 100 tons per 12 consecutive month period, based on a maximum fuel oil sulfur content of 0.5% by weight;

Compliance with this condition makes the requirements of 326 IAC 2-7 (Part 70) not applicable to the source.

**D.1.5 Preventive Maintenance Plan [326 IAC 1-6-3]**

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A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for the four boilers.

**Compliance Determination Requirements**

**D.1.6 Sulfur Dioxide Emissions and Sulfur Content [40 CFR 60.40c, Subpart Dc]**

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For Boiler #4, compliance with Condition D.1.3 shall be determined utilizing one of the following options:

- (a) Pursuant to 326 IAC 3-7-4, the Permittee shall demonstrate that the sulfur dioxide emissions do not exceed five-tenths (0.5) pound per million Btu heat input, which is equivalent to a sulfur content of 0.5% when using No. 2 fuel oil, by:
  - (1) Providing vendor analysis of fuel delivered, if accompanied by a vendor certification, or;
  - (2) Analyzing the oil sample to determine the sulfur content of the oil via the procedures in 40 CFR 60, Appendix A, Method 19.
    - (A) Oil samples may be collected from the fuel tank immediately after the fuel tank is filled and before any oil is combusted; and
    - (B) If a partially empty fuel tank is refilled, a new sample and analysis would be required upon filling.
- (b) Compliance may also be determined by conducting a stack test for sulfur dioxide emissions from the boiler using 40 CFR 60, Appendix A, Method 6 in accordance with the procedures in 326 IAC 3-6.

A determination of noncompliance pursuant to any of the methods specified in (a) or (b) above shall not be refuted by evidence of compliance pursuant to the other method.

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

**D.1.7 Visible Emissions Notations**

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- (a) Visible emission notations of the boiler stacks exhaust shall be performed once per day during normal daylight operations while combusting fuel oil. A trained employee shall record whether emissions are normal or abnormal.
- (b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.

- (c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.
- (d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.
- (c) 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. Failure to Take response Steps, shall be considered a violation of this permit.

### **Record Keeping and Reporting Requirements [326 IAC 2-5.1-3(e)(2)] [ 326 IAC 2-6.1-5(a)(2)]**

#### **D.1.8 Record Keeping Requirements**

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- (a) To document compliance with Conditions D.1.3 and D.1.4, the Permittee shall maintain records in accordance with (1) through (6) below. Records maintained for (1) through (6) shall be taken monthly and shall be complete and sufficient to establish compliance with the SO<sub>2</sub> emission limit established in Conditions D.1.3 and D.1.4.
  - (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 not require the certification by the “Authorized Individual” as defined by 326 IAC 2-1-1-1; 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 content of the fuel oil.
- (b) To document compliance with Condition D.1.7, the Permittee shall maintain records of visible emission notations of the boiler stack exhausts (1, 2, 3 and 4) while combusting fuel oil.
- (c) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

#### **D.1.9 Reporting Requirements**

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- (a) A quarterly summary of the information to document compliance with Condition D.1.4 shall be submitted to the address listed in Section C - General Reporting Requirements, of this permit, using the reporting forms located at the end of this permit, or their equivalent, within thirty (30) days after the end of the quarter being reported. The report submitted by the Permittee does require the certification by the “Authorized Individual” as defined by 326 IAC 2-1-1-1.
- (b) 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.

## SECTION D.2 FACILITY OPERATION CONDITIONS

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

- (b) Three (3) emergency generators, with one generator constructed in 1996, and two generators to be constructed in 2006, combusting No. 2 fuel oil, with maximum capacities of 1073 HP, 2220 HP, and 2220 HP, respectively, and each limited to a maximum of 500 hours of operation per year.

(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.2.1 Nitrogen Oxides (NO<sub>x</sub>)

Operation of each emergency generator shall not exceed 500 hours per twelve (12) month period. This operating limit shall limit total nitrogen oxides (NO<sub>x</sub>) emissions from the three (3) emergency generators to 33.1 tons per twelve (12) month period. Therefore the requirements of 326 IAC 2-7 do not apply.

#### D.2.2 Preventive Maintenance Plan [326 IAC 1-6-3]

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for the three emergency generators.

#### D.2.3 Record Keeping Requirements

- (a) To document compliance with Condition D.2.1, the Permittee shall maintain records at the source of the hours of operation for each emergency generator. The records shall be complete and sufficient to establish compliance with the hours of usage limits and/or NO<sub>x</sub> emission limits established in this permit. The records shall contain a minimum of the following:
- (1) The hours of operation for each month of emergency generator usage; and
  - (2) Total of hours of operation in 12 consecutive month period for each emergency generator.
- (b) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

#### D.2.4 Reporting Requirements

- (a) A quarterly summary of the information to document compliance with Condition D.2.1 shall be submitted to the address listed in Section C - General Reporting Requirements, of this permit, using the reporting forms located at the end of this permit, or their equivalent, within thirty (30) days after the end of the quarter being reported. The report submitted by the Permittee does require the certification by the "Authorized Individual" as defined by 326 IAC 2-1-1-1.

### SECTION D.3 FACILITY OPERATION CONDITIONS

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

- (b) Three (3) underground No. 2 fuel oil storage tanks, all constructed in 1996, with maximum capacities of 20,000 gallons, 2,500 gallons, and 5,000 gallons, respectively

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

#### D.3.1 Record Keeping and Reporting Requirements [326 IAC 8-9]

Pursuant to 326 IAC 8-9-1(b) (Volatile Organic Liquid Storage Vessels), the source shall be exempt from all provisions of the rule, except that the source shall comply with the following recording and reporting requirements for the No. 2 fuel oil storage tanks:

- (a) Maintain a record and submit to the department a report containing the following information for each vessel:
- (1) The vessel identification number.
  - (2) The vessel dimensions.
  - (3) The vessel capacity.
  - (4) A description of the emission control equipment or a schedule for installation of emission control equipment, for each vessel described in 326 IAC 8-9-4(a) or (b).
- (b) All records required by (a) of this condition shall be maintained for the life of the affected vessel.
- (c) The report shall be submitted to the addresses listed in Section C - General Reporting Requirements within thirty (30) days after the end of the calendar year the tank was installed. The report submitted by the Permittee does require the certification by the "Authorized Individual" as defined by 326 IAC 2-1-1-1.

#### D.3.2 Preventive Maintenance Plan [326 IAC 1-6-3]

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for the three No.2 Fuel Oil storage tanks.

## INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT OFFICE OF AIR QUALITY

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

Source Name: Floyd Memorial Hospital  
Source Address: 1850 State Street, New Albany, IN 47150  
Mailing Address: 1850 State Street, New Albany, IN 47150  
FESOP No.: F043-22368-00016

**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  
Indianapolis, Indiana 46204-2251  
Phone: 317-233-5674  
Fax: 317-233-5967**

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

Source Name: Floyd Memorial Hospital  
Source Address: 1850 State Street, New Albany, IN 47150  
Mailing Address: 1850 State Street, New Albany, IN 47150  
FESOP No.: F043-22368-00016

**This form consists of 2 pages**

**Page 1 of 2**

- |   |
|---|
| <input type="checkbox"/> This is an emergency as defined in 326 IAC 2-7-1(12) <ul style="list-style-type: none"><li>• The Permittee must notify the Office of Air Quality (OAQ), within four (4) business hours (1-800-451-6027 or 317-233-5674, ask for Compliance Section); and</li><li>• The Permittee must submit notice in writing or by facsimile within two (2) working days (Facsimile Number: 317-233-5967), and follow the other requirements of 326 IAC 2-7-16</li></ul> |
|---|

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 <sub>2</sub> , VOC, NO <sub>x</sub> , 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**

**FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP)  
SEMI- ANNUAL NATURAL GAS FIRED BOILER CERTIFICATION**

Source Name: Floyd Memorial Hospital  
Source Address: 1850 State Street, New Albany, IN 47150  
Mailing Address: 1850 State Street, New Albany, IN 47150  
FESOP No.: F043-22368-00016

<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**

**FESOP Quarterly Report**

Source Name: Floyd Memorial Hospital  
 Source Address: 1850 State Street, New Albany, IN 47150  
 Mailing Address: 1850 State Street, New Albany, IN 47150  
 FESOP No.: F043-22368-00016  
 Facility: Four (4) 14.7 MMBtu per hour boilers (Boiler #1, Boiler #2, Boiler #3 and Boiler #4)  
 Parameter: No. 2 fuel oil usage limit  
 Limit: Total input of No. 2 distillate fuel oil with a maximum sulfur content of 0.5% to boilers Boiler #1, Boiler #2, Boiler #3 and Boiler #4 shall be limited to 2,653,000 U.S. gallons per twelve (12) consecutive month period, with compliance determined at the end of each month, so that source-wide SO<sub>2</sub> emissions are limited below 100 tons per year.

YEAR:

Month	Column 1	Column 2	Column 1 + Column 2
	No. 2 Distillate Fuel Oil Usage This Month	No. 2 Distillate Fuel Oil Usage Previous 11 Months	12 Month Total No. 2 Distillate Fuel Oil Usage
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 Management  
Compliance Data Section  
Quarterly Report**

Company Name: Floyd Memorial Hospital  
Location: 1850 State Street, New Albany, Indiana 47150  
Permit No.: 043-22368-00016  
Source: three (3) emergency generators  
Limit: 500 hours per 12 consecutive month period for each generator

Year: \_\_\_\_\_

Month	Hours of Operation								
	This Month			Previous 11 Months			12 Month Total		
	Gen. 1	Gen. 2	Gen. 3	Gen. 1	Gen. 2	Gen. 3	Gen. 1	Gen. 2	Gen. 3

Submitted by: \_\_\_\_\_  
Title/Position: \_\_\_\_\_  
Signature: \_\_\_\_\_  
Date: \_\_\_\_\_

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

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

Source Name: Floyd Memorial Hospital  
Source Address: 1850 State Street, New Albany, IN 47150  
Mailing Address: 1850 State Street, New Albany, IN 47150  
FESOP No.: F043-22368-00016

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 "No deviations occurred this reporting period".</p>	
<input type="checkbox"/> NO DEVIATIONS OCCURRED THIS REPORTING PERIOD.	
<input type="checkbox"/> THE FOLLOWING DEVIATIONS OCCURRED THIS REPORTING PERIOD	
<b>Permit Requirement</b> (specify permit condition #)	
<b>Date of Deviation:</b>	<b>Duration of Deviation:</b>
<b>Number of Deviations:</b>	
<b>Probable Cause of Deviation:</b>	
<b>Response Steps Taken:</b>	
<b>Permit Requirement</b> (specify permit condition #)	
<b>Date of Deviation:</b>	<b>Duration of Deviation:</b>
<b>Number of Deviations:</b>	
<b>Probable Cause of Deviation:</b>	
<b>Response Steps Taken:</b>	

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

Form Completed By: \_\_\_\_\_

Title/Position: \_\_\_\_\_

Date: \_\_\_\_\_

Phone: \_\_\_\_\_

Attach a signed certification to complete this report.

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

**Addendum to the Technical Support Document (TSD) for a New Source Review and  
Federally Enforceable State Operating Permit (FESOP)**

**Source Background and Description**

<b>Source Name:</b>	<b>Floyd Memorial Hospital</b>
<b>Source Location:</b>	<b>1850 State Street, New Albany, IN 47150</b>
<b>County:</b>	<b>Floyd</b>
<b>SIC Code:</b>	<b>8062</b>
<b>FESOP No.:</b>	<b>043-22368-00016</b>
<b>Permit Reviewer:</b>	<b>Ganesh Srinivasan/EVP</b>

On June 27, 2006, the Office of Air Quality (OAQ) had a notice published in the New Albany Tribune, New Albany, Indiana, stating that Floyd Memorial Hospital had applied for a New Source Review and Federally Enforceable State Operating Permit (FESOP). The notice also stated that OAQ proposed to issue a permit for this operation and provided information on how the public could review the proposed permit and other documentation. Finally, the notice informed interested parties that there was a period of thirty (30) days to provide comments on whether or not this permit should be issued as proposed.

On July 24, 2006, the Permittee submitted a comment regarding the emission unit description in Section A and D.2 of the permit. The Permittee noted that the ratings for the generators did not match their respective construction years. Hence, the emission unit description has been changed through this addendum.

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

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- .....
- (b) Three (3) emergency generators, with one generator constructed in 1996, and two generators to be constructed in 2006, combusting No. 2 fuel oil, with maximum capacities of **1073 2220** HP, 2220 HP, and **2220 4073** HP, respectively, and each limited to a maximum of 500 hours of operation per year. ~~and~~

**SECTION D.2 FACILITY OPERATION CONDITIONS**

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

- (b) Three (3) emergency generators, with one generator constructed in 1996, and two generators to be constructed in 2006, combusting No. 2 fuel oil, with maximum capacities of **1073 2220** HP, 2220 HP, and **2220 4073** HP, respectively, and each limited to a maximum of 500 hours of operation per year. ~~and~~

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

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

Technical Support Document (TSD) for a New Source Review and Federally Enforceable  
State Operating Permit (FESOP)

**Source Background and Description**

<b>Source Name:</b>	<b>Floyd Memorial Hospital</b>
<b>Source Location:</b>	<b>1850 State Street, New Albany, IN 47150</b>
<b>County:</b>	<b>Floyd</b>
<b>SIC Code:</b>	<b>8062</b>
<b>FESOP No.:</b>	<b>043-22368-00016</b>
<b>Permit Reviewer:</b>	<b>Ganesh Srinivasan/EVP</b>

The Office of Air Quality (OAQ) has reviewed a MSOP revision application from Floyd Memorial Hospital relating to the operation of a hospital. However, the addition of new equipment (Boiler #4) requested by the source in the application changed the permit level of the source from MSOP to FESOP. Therefore, the application is being reviewed as a FESOP application.

**Permitted Emission Units and Pollution Control Equipment**

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

- (a) Three (3) natural gas-fired boilers, identified as Boiler #1, Boiler #2, and Boiler #3, constructed in 1962, 1987 and 1981, respectively, each with a maximum heat input capacity of 14.7 million British thermal units (MMBtu) per hour, each using No. 2 fuel oil burner as back-up, and each exhausting to stacks 1, 2, and 3, respectively; and
- (b) One (1) emergency generator, constructed in 1996, combusting No. 2 fuel oil, with maximum capacities of 1073 HP, and is limited to a maximum of 500 hours of operation per year.

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

The application also includes information relating to the prior approval for the construction and operation of the following equipment pursuant to 326 IAC 2-8-4(11):

- (a) One (1) natural gas-fired boiler, identified as Boiler #4, to be constructed in 2006, with a maximum heat input capacity of 14.7 million British thermal units (MMBtu) per hour, with No. 2 fuel oil burner as back-up, and exhausting to stack 4; and
- (b) Two (2) emergency generators, to be constructed in 2006, combusting No. 2 fuel oil, each with maximum capacities of 2220 HP, and each limited to a maximum of 500 hours of operation per year.

**Removed Emission Units and Pollution Control Equipment**

The source is removing the following emission units and pollution control devices:

- (a) One (1) emergency generator constructed in 1996, combusting No. 2 fuel oil, with maximum capacities of 368.8 HP, and is limited to a maximum of 500 hours of operation per year; and

- (b) One (1) equipment sterilization process, constructed in 1996, consisting of two (2) AMSCO gas sterilizers and one (1) AMSCO gas aerator controlled by two (2) acid hydrolysis wet scrubbers, one (1) cryogenic condenser, two (2) vacuum pumps, one (1) peak flow shaver, and one (1) CFC-12 recovery cylinder.

### **Unpermitted Emission Units and Pollution Control Equipment**

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

### **Insignificant Activities**

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

- (a) Four (4) Steris Model 3017 ETO Sterilizers, installed in May 2003, running one cycle per day, each using 100 grams of Ethylene Oxide per cycle;
- (b) Three (3) underground No. 2 fuel oil storage tanks, all constructed in 1996, with maximum capacities of 20,000 gallons, 2,500 gallons, and 5,000 gallons, respectively.

### **Existing Approvals**

The source has been operating under the MSOP 043-13712-00016, issued on May 4, 2001, and the following amendments and revisions:

- (a) First Notice Only Change No. 043-19268-00016, issued on June 16, 2004.

### **Enforcement Issue**

There are no enforcement actions pending.

### **Recommendation**

The staff recommends to the Commissioner that the FESOP be approved. This recommendation is based on the following facts and conditions:

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

An administratively complete FESOP application for the purposes of this review was received on December 28, 2005.

### **Emission Calculations**

See Appendix A of this document for detailed emission calculations (pages 1 through 8 of Appendix A).

### **Potential to Emit**

Pursuant to 326 IAC 2-1.1-1(16), Potential to Emit is defined as “the maximum capacity of a stationary source or emissions 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, the department, or the appropriate local air pollution control agency.”

Pollutant	Potential to Emit (tons/yr)
PM	4.6
PM-10	7.0
SO <sub>2</sub>	136.2
VOC	2.5
CO	29.2
NO <sub>x</sub>	69.9
Single HAP	0.5
Combined HAP	0.6

- (a) The potential to emit (as defined in 326 IAC 2-7-1(29)) of SO<sub>2</sub> is equal to or greater than 100 tons per year. Therefore, the source is subject to the provisions of 326 2-7. The source will be issued a FESOP because the source will limit its emissions below the Title V permit emission levels.
- (b) Fugitive Emissions  
 Since this type of operation is not one of the twenty-eight (28) listed source categories under 326 IAC 2-2 or 326 IAC 2-3, and since there are no applicable New Source Performance Standards that were in effect on August 7, 1980, the fugitive particulate matter (PM) and volatile organic compound (VOC) emissions are not counted toward determination of PSD and Emission Offset applicability.

**Actual Emissions**

The following table shows the actual emissions from the source. This information reflects the 2002 OAQ emission data.

Pollutant	Emissions (tons/yr)
PM	0.0
PM-10	0.0
SO <sub>2</sub>	0.0
VOC	0.0
CO	3.0
NO <sub>x</sub>	3.0
Single HAP	Not Reported
Combination HAPs	Not Reported

**Potential to Emit After Issuance**

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

Process/emission unit	Potential To Emit (tons/year)						
	PM	PM-10	SO <sub>2</sub>	VOC	CO	NO <sub>x</sub>	HAPs
Boilers (Boiler #1 - #4)	2.6	4.3	94.2	1.4	21.6	29.5	0.5
Emergency Generators	1.0	1.0	5.6	1.0	7.6	33.1	0.0
ETD Sterlizer	0.0	0.0	0.0	0.1	0.0	0.0	0.1
Underground Storage Tanks	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>Total Emissions</b>	<b>3.6</b>	<b>5.3</b>	<b>99.8</b>	<b>2.5</b>	<b>29.2</b>	<b>59.6</b>	<b>0.6</b>

### County Attainment Status

The source is located in Floyd County.

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

- (a) 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 and NOx emissions are considered when evaluating the rule applicability relating to the ozone standards. Floyd County has been designated as nonattainment for the 8-hour ozone standard. Therefore, VOC and NOx emissions were reviewed pursuant to the requirements for Emission Offset, 326 IAC 2-3.
- (b) U.S.EPA in Federal Register Notice 70 FR 943 dated January 5, 2005 has designated Floyd County as nonattainment for PM2.5. On March 7, 2005 the Indiana Attorney General's Office on behalf of IDEM filed a law suit with the Court of Appeals for the District of Columbia Circuit challenging U.S. EPA's designation of non-attainment areas without sufficient data. However, in order to ensure that sources are not potentially liable for violation of the Clean Air Act, the OAQ is following the U.S. EPA's guidance to regulate PM10 emissions as surrogate for PM2.5 emissions pursuant to the Non-attainment New Source Review requirements. See the State Rule Applicability for the source section.
- (c) Floyd County has been classified as attainment or unclassifiable in Indiana for all other pollutants. Therefore, these emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2. See the State Rule Applicability for the source section.
- (d) Fugitive Emissions  
Since this type of operation is not one of the 28 listed source categories under 326 IAC 2-2 or 2-3 and since there are no applicable New Source Performance Standards that were in effect on August 7, 1980, the fugitive particulate matter (PM) and volatile organic compound (VOC) emissions are not counted toward determination of PSD and Emission Offset applicability.

### Source Status

Existing Source PSD, Part 70, or FESOP Definition (emissions after controls, based on 8760 hours of operation per year at rated capacity and/or as otherwise limited):

- (a) This existing source is not a major stationary source because no attainment regulated pollutant is emitted at a rate of 250 tons per year or greater, no nonattainment regulated pollutant is emitted at a rate of 100 tons per year or greater, and it is not in one of the 28 listed source categories.

### Federal Rule Applicability

- (a) The three (3) 14.7 MMBtu per hour natural gas fired boilers, identified as Boiler #1, Boiler #2 and Boiler #3 are not subject to the requirements of the New Source Performance Standard, 326 IAC 12, (40 CFR 60.40c, Subpart Dc), because they were all constructed prior to June 9, 1989.
- (b) The 2,500 gallons and the 5,000 gallons fuel oil storage tanks are not subject to the requirements of the New Source Performance Standard, 326 IAC 12, (40 CFR 60.110b, Subpart Kb), because they have a maximum storage capacity that is less than 40 cubic meters (10.567 gallons).
- (c) On May 10, 2005, the October 15, 2003 revisions to 40 CFR 60, Subpart Kb, were incorporated into the Indiana State Implementation Plan (SIP). Therefore, the requirements from the previous version of 40 CFR 60, Subpart Kb, published in the federal register on August 8, 1987 are no longer applicable. The rule now applies to each storage vessel installed after July 23, 1984, with a storage capacity greater than 75 cubic meters ( $m^3$ ), used to store volatile organic liquids (VOLs). There is only one tank that has a capacity above 75 cubic meters ( $m^3$ ). However, pursuant to 40 CFR 60.110b (b), the requirements of 40 CFR 60, Subpart Kb, are not applicable to tanks that have a capacity greater than seventy-five (75) cubic meters, but less than 151 cubic meters, and a maximum true vapor pressure less than 15.0 kiloPascals. Therefore the requirements of this rule are not included in this permit. All other tanks at this source are not subject to this rule because each tank has a storage capacity less than 75 cubic meters
- (d) There are no New Source Performance Standards (326 IAC 12 and 40 CFR Part 60) that are applicable to the equipment sterilization process. Also, there are no National emissions Standards for Hazardous Air Pollutants (326 IAC 14, 40 CFR Part 61, 326 IAC 20, and 40 CFR Part 63) that apply to the equipment sterilization process because the potential to emit a single HAP is less than 10 tons per year and the potential to emit a combination of HAPs is less than 25 tons per year.
- (e) The one (1) 14.7 MMBtu per hour natural gas fired boiler, identified as Boiler #4 is subject to the requirements of the New Source Performance Standard, 326 IAC 12, (40 CFR 60.40c, Subpart Dc), because it was constructed after June 9, 1989. As such, the following shall apply:

SO<sub>2</sub> emissions from the four (4) 14.7 MMBtu per hour boilers shall not exceed five tenths (0.5) pounds per MMBtu heat input. [40 CFR 60.42c(d)]

The Permittee shall demonstrate compliance utilizing one of the following options:

- (1) Providing vendor analysis of fuel delivered, if accompanied by a certification; or
- (2) Analyzing the oil sample to determine the sulfur content of the oil via the procedures in 40 CFR 60, Appendix A, Method 19.
  - (i) Oil samples may be collected from the fuel tank immediately after the fuel tank is filled and before any oil is combusted; and
  - (ii) If a partially empty fuel tank is refilled, a new sample and analysis would be required upon filling.
- (f) There are no other New Source Performance Standards (NSPS) (326 IAC 12 and 40 CFR Part 60) included in this permit for this source.

- (g) There are no National Emission Standards for Hazardous Air Pollutants (NESHAP)(326 IAC 14, 20 and 40 CFR Part 61, 63) included in this permit for this source.

### **State Rule Applicability – Entire Source**

#### **326 IAC 2-4.1-1 (New Source Toxics Control)**

This source is not subject to 326 IAC 2-4.1-1 (New Source Toxics Control) because the source has PTE of any HAP less than 10 tons per year and PTE of any combination of HAPs less than 25 tons per year. Therefore, 326 IAC 2-4.1-1 does not apply.

#### **326 IAC 2-6 (Emission Reporting)**

Pursuant to 326 IAC 2-6-1, this source is not subject to this rule because it is not required to have an operating permit under 326 IAC 2-7 (Part 70), it is not located in Lake or Porter counties, and it does not emit lead into the ambient air at levels equal to or greater than 5 tons per year. Therefore, 326 IAC 2-6 does not apply.

#### **326 IAC 2-8-4 (FESOP)**

This source is subject to 326 IAC 2-8-4 (FESOP). Pursuant to this rule, the usage of No. 2 distillate fuel oil, with a maximum sulfur content of 0.5%, shall be limited to 2,653,000 U.S. gallons per twelve (12) consecutive month period, so that source-wide SO<sub>2</sub> emissions are limited below 100 tons per year. Therefore, the requirements of 326 IAC 2-7 do not apply.

#### **326 IAC 5-1 (Opacity Limitations)**

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

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

#### **326 IAC 8-6 (Organic Solvent Emission Limitations)**

This source is not subject to 326 IAC 8-6 (Organic Solvent Emission Limitations) because the potential to emit VOC from the entire source is less than 100 tons per year. Therefore, 326 IAC 8-6 does not apply.

#### **326 IAC 8-7 (Specific VOC Reduction Requirements for Lake, Porter, Clark, and Floyd Counties)**

This source is not subject to 326 IAC 8-7 (Specific VOC Reduction Requirements for Lake, Porter, Clark, and Floyd Counties) because the potential to emit volatile organic compounds is less than 100 tons per year and the source is located in Floyd County. Therefore, 326 IAC 8-7 does not apply.

#### **326 IAC 10-1 (Nitrogen Oxides Control in Clark and Floyd Counties)**

This source is not subject to 326 IAC 10-1 (Nitrogen Oxides Control in Clark and Floyd Counties) because the potential to emit nitrogen oxides from the entire source is less than 100 tons per year. Therefore, 326 IAC 10-1 does not apply.

### State Rule Applicability – Individual Facilities

#### 326 IAC 6-2-3 (Emission Limitations for Sources of Indirect Heating)

- (a) Boiler #1, rated at 14.7 MMBtu/hr, and constructed in 1962 is subject to 326 IAC 6-2-3 for indirect heating facilities constructed prior to September 21, 1983. Pursuant to this rule, PM emissions from the boiler shall be limited to less than 0.8 lbs per MMBtu or the emission rate determined by the following equation, whichever is lower:

$$Pt = \frac{C \times a \times h}{76.5 \times Q^{0.75} \times N^{0.25}}$$

Where: C = maximum ground level concentration with respect to distance from the point source at the "critical" wind speed for level terrain = 50 micrograms per cubic meter

Pt = pounds of particulate matter emitted per million Btu of heat input

Q = total source maximum operating capacity rating in million Btu per hour heat input

N = number of stacks in fuel burning operation

a = plume rise factor = 0.67

h = stack height in feet

$$Pt = (50 \times 0.67 \times 37) / (76.5 \times 14.7^{0.75} \times 1^{0.25})$$

$$Pt = 2.16 \text{ pounds per MMBtu}$$

Therefore, the PM emissions from Boiler # 1 shall be limited to 0.8 lbs/MMBtu.

The potential worst case emissions from this boiler of 0.002 lb/MMBtu of particulate matter are less than the allowable 0.8 lb/MMBtu. Therefore, this boiler is in compliance with this rule.

- (b) Boiler # 3, rated at 14.7 MMBtu/hr, and constructed in 1981, is subject to 326 IAC 6-2-3 for indirect heating facilities constructed prior to September 21, 1983. Pursuant to this rule, PM emissions from the boiler shall be limited to less than 0.6 lbs per MMBtu or the emission rate determined by the following equation, whichever is lower:

$$Pt = \frac{C \times a \times h}{76.5 \times Q^{0.75} \times N^{0.25}}$$

Where: C = maximum ground level concentration with respect to distance from the point source at the "critical" wind speed for level terrain = 50 micrograms per cubic meter

Pt = pounds of particulate matter emitted per million Btu of heat input

Q = total source maximum operating capacity rating in million Btu per hour heat input =  
14.7 + 14.7 = 29.4 MMBtu/hr

N = number of stacks in fuel burning operation

a = plume rise factor = 0.67

h = stack height in feet

$$Pt = (50 \times 0.67 \times 37) / (76.5 \times 29.4^{0.75} \times 2^{0.25})$$

$$Pt = 1.08 \text{ pounds per MMBtu}$$

Therefore, PM emissions from Boiler # 3 shall be limited to 0.6 lbs/MMBtu.

The potential worst case emissions from this boiler of 0.002 lb/MMBtu of particulate matter are less than the allowable 0.6 lb/MMBtu. Therefore, this boiler is in compliance with this rule.

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

- (a) Boiler # 2, rated at 14.7 MMBtu/hr, constructed in 1987 is subject to 326 IAC 6-2-4 for indirect heating facilities constructed after September 21, 1983. Pursuant to this rule, PM emissions from the boiler shall be limited by the following equation:

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

Where: Pt = pounds of particulate matter emitted per million Btu of heat input  
Q = total source maximum operating capacity rating in million Btu per hour heat input = 14.7 + 14.7 + 14.7 = 44.1 MMBtu/hr

$$Pt = 1.09 / (44.1)^{0.26}$$

$$Pt = 0.41 \text{ pounds per MMBtu}$$

The potential worst case emissions from this boiler of 0.002 lb/MMBtu of particulate matter are less than the allowable 0.41 lb/MMBtu. Therefore, this boiler is in compliance with this rule.

- (b) Boiler # 4, rated at 14.7 MMBtu/hr, to be constructed in 2006 is subject to 326 IAC 6-2-4 for indirect heating facilities constructed after September 21, 1983. Pursuant to this rule, PM emissions from the boiler shall be limited by the following equation:

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

Where: Pt = pounds of particulate matter emitted per million Btu of heat input  
Q = total source maximum operating capacity rating in million Btu per hour heat input = 14.7 + 14.7 + 14.7 + 14.7 = 58.8 MMBtu/hr

$$Pt = 1.09 / (58.8)^{0.26}$$

$$Pt = 0.38 \text{ pounds per MMBtu}$$

The potential worst case emissions from this boiler of 0.002 lb/MMBtu of particulate matter are less than the allowable 0.38 lb/MMBtu. Therefore, this boiler is in compliance with this rule.

326 IAC 7-1.1 (Sulfur Dioxide Emission Limitations)

Pursuant to 326 IAC 7-1.1, sulfur dioxide emissions from the back-up No. 2 fuel oil combustion in the four (4) boilers (Boilers # 1, 2, 3, and 4), each with maximum heat input capacities of 14.7 MMBtu per hour, shall be limited to five-tenths (0.5) pounds per million Btu. This equates to a fuel oil sulfur content limit of 0.5%. This is based on the following calculations:

$$0.5 \text{ lbs/MMBtu} \times 140,000 \text{ Btu/1000 gal} = 70 \text{ lbs/1000gal}$$

$$70 \text{ lbs/1000 gal} / 157 \text{ lb/1000 gal} = 0.5\%$$

Therefore, the sulfur content of the fuel must be less than or equal to 0.5% in order to comply with this rule. The source will comply with this rule by using No. 2 distillate fuel oil with a maximum sulfur content of 0.5% or less in the four (4) boilers.

The three (3) emergency generators are not subject to this rule because their Potential to Emit (PTE) is less than 25 tons per year and 10 pounds per hour.

#### 326 IAC 7-2-1 (Sulfur Dioxide Reporting Requirements)

The four (4) boilers are subject to 326 IAC 7-2-1 (Reporting Requirements). This rule requires the source to submit to the Office of Air Quality upon request records of sulfur content, heat content, fuel consumption, and sulfur dioxide emission rates based on a calendar-month average.

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

Pursuant to 326 IAC 8-9-1, on and after October 1, 1995 stationary vessels used to store volatile organic liquids (VOL) must comply with the requirement of the rule if located in Clark, Floyd, Lake or Porter Counties. The source is located in Floyd County and the rule is applicable to this source for the No. 2 fuel oil storage tanks with storage capacities of 20,000 gallons, 5,000 gallons, and 2,500 gallons. Since these vessels have individual storage capacities of less than 39,000 gallons, only the record keeping and reporting requirements of 326 IAC 8-9-6 apply.

Pursuant to 326 IAC 8-9-1(b), the source shall be exempt from all provisions of the rule, except that the source shall comply with the following record keeping and reporting requirements:

- (a) Maintain a record and submit to the department a report containing the following information for each vessel:
  - (1) The vessel identification number.
  - (2) The vessel dimensions.
  - (3) The vessel capacity.
  - (4) A description of the emission control equipment or a schedule for installation of emission control equipment, for each vessel described in 326 IAC 8-9-4(a) or (b).
- (b) All records required by (a) of this condition shall be maintained for the life of the affected vessel.

### Testing Requirements

Testing is not required for the four (4) 14.7 MMBtu per hour boilers, identified as Boiler #1, Boiler #2, Boiler #3, and Boiler #4, because there are no control devices and emissions were based on AP-42 emission factors.

### Compliance Requirements

Permits issued under 326 IAC 2-8 are required to ensure that sources can demonstrate compliance with applicable state and federal rules on a more or less continuous basis. All state and federal rules contain compliance provisions, however, these provisions do not always fulfill the requirement for a more or less continuous demonstration. When this occurs IDEM, OAQ in conjunction with the source, must develop specific conditions to satisfy 326 IAC 2-8-4. As a result, compliance requirements are divided into two sections: Compliance Determination Requirements and Compliance Monitoring Requirements.

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

The source shall comply with the following conditions of Visible Emissions Notations for boilers in order to satisfy the compliance monitoring requirements.

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

These monitoring conditions are necessary because the boilers must operate properly to ensure compliance with 326 IAC 6-2-3 (Emission Limitations for Sources of Indirect Heating), 326 IAC 6-2-4 (Emission Limitations for Sources of Indirect Heating) and 326 IAC 2-8 (FESOP).

## Conclusion

The operation of this hospital shall be subject to the conditions of the **FESOP 043-22368-00016**.

**Appendix A: Emission Calculations**

**Company Name:** Floyd Memorial Hospital  
**Address City IN Zip:** 1850 State Street, New Albany, IN 47150  
**CP:** 043-22368  
**Plt ID:** 043-00016  
**Reviewer:** GSN/EVP  
**Date:** 12/28/2005

<b>New Uncontrolled Potential Emissions (tons/year)</b>					
<b>Emissions Generating Activity</b>					
<b>Pollutant</b>	<b>Boilers Emissions</b>	<b>Emergency Generators Emissions</b>	<b>ETD Sterilizer Emissions*</b>	<b>Underground Storage Tanks Emissions</b>	<b>TOTAL</b>
	<b>TPY</b>	<b>TPY</b>	<b>TPY</b>	<b>TPY</b>	<b>TPY</b>
PM	3.68	0.96	0.00	0.00	4.6
PM10	6.07	0.96	0.00	0.00	7.0
SO2	130.61	5.58	0.00	0.00	136.2
NOx	36.79	33.08	0.00	0.00	69.9
VOC	1.42	0.97	0.16	0.00	2.5
CO	21.63	7.58	0.00	0.00	29.2
total HAPs	0.49	0.00	0.00	0.00	0.5
worst case single HAP	0.46	0.00	0.16	0.00	0.6
	hexane		ethylene oxide		

Total emissions based on rated capacity at 8,760 hours/year.

\* Based on emission calculations provided by the source.

<b>New Controlled Potential Emissions (tons/year)</b>					
<b>Emissions Generating Activity</b>					
<b>Pollutant</b>	<b>Boilers Emissions</b>	<b>Emergency Generators Emissions</b>	<b>ETD Sterilizer Emissions*</b>	<b>Underground Storage Tanks Emissions</b>	<b>TOTAL</b>
	<b>TPY</b>	<b>TPY</b>	<b>TPY</b>	<b>TPY</b>	<b>TPY</b>
PM	2.65	0.96	0.00	0.00	3.6
PM10	4.38	0.96	0.00	0.00	5.3
SO2	94.18	5.58	0.00	0.00	<b>99.8</b>
NOx	26.53	33.08	0.00	0.00	59.6
VOC	1.42	0.97	0.16	0.00	2.5
CO	21.63	7.58	0.00	0.00	29.2
total HAPs	0.49	0.00	0.00	0.00	0.5
worst case single HAP	0.46	0.00	0.16	0.00	0.6
	hexane		ethylene oxide		

Total emissions based on rated capacity at 8,760 hours/year for worst case scenarios of either #2 fuel oil or natural gas combination, after fuel oil usage limit.

\* Based on emission calculations provided by the source.

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

**Company Name:** Floyd Memorial Hospital  
**Address City IN Zip:** 1850 State Street, New Albany, IN 47150  
**Permit Number:** 043-22368  
**Plt ID:** 043-00016  
**Reviewer:** GSN/EVP  
**Date:** 12/28/2005

Heat Input Capacity Emission Unit	MMBtu/hr	Potential Throughput MMCF/yr
Boiler #1	14.7	
Boiler #2	14.7	
Boiler #3	14.7	
Boiler #4	14.7	
<b>Total</b>	<b>58.8</b>	<b>515.1</b>

Emission Factor in lb/MMCF	Pollutant					
	PM*	PM10*	SO2	NOx 100.0 **see below	VOC	CO
Potential Emission in tons/yr	0.49	1.96	0.15	25.75	1.42	21.63

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

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

**Methodology**

All emission factors are based on normal firing.

MMBtu = 1,000,000 Btu

MMCF = 1,000,000 Cubic Feet of Gas

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

Emission Factors are from AP 42, Chapter 1.4, Tables 1.4-1, 1.4-2, 1.4-3, SCC #1-02-006-02, 1-01-006-02, 1-03-006-02, and 1-03-006-03 (SUPPLEMENT D 3/98)

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

See next page for HAPs emissions calculations.

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

**Company Name:** Floyd Memorial Hospital  
**Address City IN Zip:** 1850 State Street, New Albany, IN 47150  
**Permit Number:** 043-22368  
**Plt ID:** 043-00016  
**Reviewer:** GSN/EVP  
**Date:** 12/28/2005

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 Emission in tons/yr	5.408E-04	3.091E-04	1.932E-02	4.636E-01	8.756E-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	Total
Potential Emission in tons/yr	1.288E-04	2.833E-04	3.606E-04	9.787E-05	5.408E-04	4.860E-01

Methodology is the same as previous page.

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

**Appendix A: Emissions Calculations**  
**Commercial/Institutional/Residential Combustors (< 100 mmBtu/hr)**  
**#2 Fuel Oil**

**Company Name:** Floyd Memorial Hospital  
**Address, City IN Zip:** 1850 State Street, New Albany, IN 47150  
**CP:** 043-22368  
**Plt ID:** 043-00016  
**Reviewer:** GSN/EVP  
**Date:** 12/28/2005

Heat Input Capacity  
Emission Unit      MMBtu/hr

Potential Throughput  
kgals/year

S = Weight % Sulfur

Boiler #1	14.70
Boiler #2	14.70
Boiler #3	14.70
Boiler #4	14.70
<b>Total</b>	<b>58.80</b>

**Limited Kgals/year**

**2653**

Emission Factor in lb/kgal	Pollutant					
	PM*	PM-10*	SO2	NOx	VOC	CO
	2.0	3.3	71 (142.0S)	20.0	0.34	5.0
Potential Emission in tons/yr	3.68	6.07	130.61	36.79	0.63	9.20
Limited by Fuel Usage	2.65	4.38	<b>94.18</b>	26.53	0.45	6.63

**Methodology**

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

Potential Throughput (kgals/year) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1kgal per 1000 gallon x 1 gal per 0.140 MM Btu

Emission Factors are from AP 42, Tables 1.3-1, 1.3-2, and 1.3-3 (SCC 1-03-005-01/02/03) Supplement E 9/98 (see erata file)

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

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

See page 5 for HAPs emission calculations.

**Appendix A: Emissions Calculations**  
**Commercial/Institutional/Residential Combustors (< 100 mmBtu/hr)**  
**#2 Fuel Oil**  
**HAPs Emissions**

**Company Name:** Floyd Memorial Hospital  
**Address, City IN Zip:** 1850 State Street, New Albany, IN 47150  
**CP:** 043-22368  
**Plt ID:** 043-00016  
**Reviewer:** GSN/EVP  
**Date:** 12/28/2005

HAPs - Metals

Emission Factor in lb/mmBtu	Arsenic 4.0E-06	Beryllium 3.0E-06	Cadmium 3.0E-06	Lead 9.0E-06
Potential Emission in tons/yr	0.00E+00	0.00E+00	0.00E+00	0.00E+00

HAPs - Metals (continued)

Emission Factor in lb/mmBtu	Mercury 3.0E-06	Manganese 6.0E-06	Nickel 3.0E-06	Total
Potential Emission in tons/yr	0.00E+00	0.00E+00	0.00E+00	0.00E+00

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**  
**ETD Sterilizer Emissions**

**Company Name:** Floyd Memorial Hospital  
**Address, City IN Zip:** 1850 State Street, New Albany, IN 47150  
**CP:** 043-22368  
**Plt ID:** 043-00016  
**Reviewer:** GSN/EVP  
**Date:** 12/28/2005

Number of Steris Model 3017 ETO Sterilizers Units	4	
Number of cycles per day	1	
Amount of Ethylene Oxide Used per cycle	100	grams
Total Ethylene Oxide emitted per day (combined)	400	grams/day
Total Ethylene Oxide emitted per year (combined)	<b>321.87</b>	lbs/year
Total Ethylene Oxide emitted per year (combined)	<b>0.16</b>	tons/year

**Note:**

Ethylene Oxide emission rate based on 100% emission of amount used.

**Appendix A: Emissions Calculations**

**TANKS 4.0.9d  
Emissions Report - Summary Format  
Individual Tank Emission Totals**

**Company Name:** Floyd Memorial Hospital  
**Address, City IN Zip:** 1850 State Street, New Albany, IN 47150  
**CP:** 043-22368  
**Plt ID:** 043-00016  
**Reviewer:** GSN/EVP  
**Date:** 12/28/2005

Component	Max. Capacity	Working Volume	Net Throughput	Shell Length	Shell Diameter	Working Loss	Breathing Loss	Total Loss	
	gallons	gallons	gallons/yr	feet	feet	lbs/yr	lbs/yr	lbs/yr	
Fuel Oil No.2	20000	15000	3410	29	10	0.06	2.36	2.41	
Fuel Oil No.2	2500	2500	828	16	6	0.01	0	0.01	
Fuel Oil No.2	5000	20000	300	33	10	0	0	0	
							Total Emissions	<b>2.42</b>	<b>lbs/yr</b>
								<b>0.00121</b>	<b>tons/yr</b>

**Appendix A: Emission Calculations  
Internal Combustion Engines - Diesel Fuel  
Turbine (>600 HP)**

**Company Name:** Floyd Memorial Hospital  
**Address City IN Zip:** 1850 State Street, New Albany, IN 47150  
**CP#:** 043-22368  
**Plt ID:** 043-00016  
**Reviewer:** GSN/EVP  
**Date:** 12/28/2005

**Emissions calculated based on output rating (hp)**

Heat Input Capacity	Potential Throughput	S=	<input type="text" value="0.5"/>	= WEIGHT % SULFUR
Emission Unit	Horsepower (hp)	hp-hr/yr		
Generator #1	<input type="text" value="1073"/>			
Generator #2	<input type="text" value="2220"/>			
Generator #3	<input type="text" value="2220"/>			
<b>Total</b>	<input type="text" value="5513"/>	<input type="text" value="2,756,500.00"/>		

Emission Factor in lb/hp-hr	Pollutant					
	PM*	PM10*	SO2	NOx	VOC	CO
	0.0007	not provided	0.0040 (.00809S)	0.024 **see below	0.00071	0.00550
Potential Emission in tons/yr	0.96	No Data	5.58	33.08	0.97	7.58

\*\*NOx emission factor: uncontrolled = 0.024 lb/hp-hr, controlled by ignition timing retard = 0.013 lb/hp-hr  
 Note that the PM10 emission factor in lb/hp-hr is not provided in the Supplement B update of AP-42.  
 An average conversion factor of 1hp-hr = 7,000Btu is provided below.

**Methodology**

Potential Throughput (hp-hr/yr) = hp \* 500 hr/yr

Emission Factors are from AP 42 (Supplement B 10/96)Table 3.4-1 and Table 3.4-2

1 hp-hr = 7000 Btu, AP42 (Supplement B 10/96), Table 3.3-1, Footnote a.

Emission (tons/yr) = [Potential Throughput (hp-hr/yr) x Emission Factor (lb/hp-hr)] / (2,000 lb/ton )

\*No information was given regarding which method was used to determine the PM emission factor or whether condensable PM is included. The PM10 emission factor is filterable and condensable PM10 combined.