INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
We Protect Hoosiers and Our Environment.

Mitchell E. Daniels Jr.
Governor

Thomas W. Easterly
Commissioner

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

TO: Interested Parties / Applicant

DATE: May 13, 2008

RE: Henry County Memorial Hospital / 065-25152-00035

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

Notice of Decision: Approval - Effective Immediately

Please be advised that on behalf of the Commissioner of the Department of Environmental Management, I have issued a decision regarding the enclosed matter. Pursuant to IC 13-15-5-3, this permit is effective immediately, unless a petition for stay of effectiveness is filed and granted 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, Suite N 501E, 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.dot12/03/07

Mitchell E. Daniels, Jr.
Governor

Thomas W. Easterly
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100 North Senate Avenue
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Minor Source Operating Permit
OFFICE OF AIR QUALITY

Henry County Memorial Hospital
1000 North 16th Street
New Castle, Indiana 47362

(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.

This permit is issued to the above mentioned company under the provisions of 326 IAC 2-1.1, 326 IAC 2-6.1 and 40 CFR 52.780, with conditions listed on the attached pages.

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 MSOP under 326 IAC 2-6.1.

Operation Permit No.: M065-25152-00035	
Issued by/Original Signed By: Alfred C. Dumaual, Ph. D., Section Chief Permits Branch Office of Air Quality	Issuance Date: May 13, 2008 Expiration Date: May 13, 2018

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SECTION A SOURCE SUMMARY

This permit is based on information requested by the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ). The information describing the source contained in conditions A.1 and A.2 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 2-5.1-3(c)][326 IAC 2-6.1-4(a)]

The Permittee owns and operates a stationary general medical hospital.

Source Address:	1000 North 16th Street, New Castle, Indiana 47362
Mailing Address:	1000 North 16th Street, New Castle, Indiana 47362
General Source Phone Number:	(765) 521-1519
SIC Code:	8062
County Location:	Henry
Source Location Status:	Attainment for all criteria pollutants
Source Status:	Minor Source Operating Permit Program Minor Source, under PSD and Emission Offset Rules Minor Source, Section 112 of the Clean Air Act Not 1 of 28 Source Categories

A.2 Emission Units and Pollution Control Equipment Summary

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

(a) Two (2) natural gas or No. 2 distillate fuel-fired boilers, identified as B-1 and B-2, constructed in 1971, each with a maximum capacity of 12.6 million British thermal units per hour (MMBtu/hr), both exhausting to stack B-1. The No. 2 distillate fuel used in each boiler has a maximum sulfur content of 0.1%.

(b) Natural gas-fired combustion sources with heat input equal to or less than ten million (10,000,000) British thermal units per hour (MMBtu/hr) including:

(1) One (1) boiler, identified as B-3, constructed in 1997, capacity: 0.6 MMBtu/hr.

(c) Emergency diesel generators not exceeding 1,600 horsepower, including:

(1) One (1) generator for emergency power and peak shaving, identified as G-1, installed in 1979, rated at 1,012 horsepower (755 kilowatts), and

(2) One (1) generator for emergency power and peak shaving, identified as G-2, installed in 1993, rated at 1,135 horsepower (750 kilowatts).

(d) One (1) underground diesel storage tank, identified as T-2, constructed in 1992, with a maximum capacity of 10,000 gallons. This unit dispenses a petroleum fuel other than gasoline and dispenses less than or equal to 230,000 gallons per month.

(e) Degreasing operations that do not exceed 145 gallons per 12 months, except if subject to 326 IAC 20-6. There are no degreasing stations. Approximately 55 gallons of xylenes are used each year in laboratory activities.

(f) Cleaners and solvents characterized as follows:

(1) having a vapor pressure equal to or less than 2 kiloPascals: 15 millimeters of mercury; or 0.3 pounds per square inch measured at 38˚C (100˚F) or;

(2) having a vapor pressure equal to or less than 0.7 kiloPascals; 5 millimeters of mercury; or 0.1 pounds per square inch measured at 20˚C (68˚F); the use of which for all cleaners and solvents combined does not exceed 145 gallons per 12 months.

(g) Closed loop heating and cooling systems.

(h) Heat exchanger cleaning and repair.

(i) Paved and unpaved roads and parking lots with public access.

(j) Purging of gas lines and vessels that are related to routine maintenance and repair of buildings, structures, or vehicles at the source where air emissions from those activities would not be associated with any production process.

(k) Blowdown for any of the following: sight glass; boiler; compressors; pumps; and cooling tower.

(l) A laboratory as defined in 326 IAC 2-7-1(21)(D).

(m) One (1) ethylene oxide sterilizer, emitting greater than 1 pound per day but less than 5 pounds per day or 1 ton per year of a single HAP.

(n) One (1) underground diesel storage tank, identified as T-1, constructed in 1971, capacity: 30,000 gallons.

SECTION B GENERAL CONDITIONS

B.1 Definitions [326 IAC 2-1.1-1]

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 2-1.1-1) shall prevail.

B.2 Permit Term [326 IAC 2-6.1-7(a)][326 IAC 2-1.1-9.5][IC 13-15-3-6(a)]

(a) This permit, M065-25152-00035, is issued for a fixed term of ten (10) years from the issuance date of this permit, as determined in accordance with IC 4-21.5-3-5(f) and IC 13-15-5-3. Subsequent revisions, modifications, or amendments of this permit do not affect the expiration date of this permit.

(b) If IDEM, OAQ, upon receiving a timely and complete renewal permit application, fails to issue or deny the permit renewal prior to the expiration date of this permit, this existing permit shall not expire and all terms and conditions shall continue in effect, until the renewal permit has been issued or denied.

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

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

(a) the condition is modified in a subsequent permit action pursuant to Title I of the Clean Air Act; or

(b) the emission unit to which the condition pertains permanently ceases operation.

B.4 Enforceability

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

B.5 Severability

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

B.6 Property Rights or Exclusive Privilege

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

B.7 Duty to Provide Information

(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 an "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.8 Certification

(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.9 Annual Notification [326 IAC 2-6.1-5(a)(5)]

(a) An annual notification shall be submitted by an authorized individual to the Office of Air Quality stating whether or not the source is in operation and in compliance with the terms and conditions contained in this permit.

(b) The annual notice shall be submitted in the format attached no later than March 1 of each year to:

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

(c) The notification 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.

B.10 Preventive Maintenance Plan [326 IAC 1-6-3]

(a) If required by specific condition(s) in Section D of this permit, the Permittee shall prepare and maintain Preventive Maintenance Plans (PMPs) within ninety (90) days after issuance of this permit, including the following information on each facility:

(1) Identification of the individual(s) responsible for inspecting, maintaining, and repairing emission control devices;

(2) A description of the items or conditions that will be inspected and the inspection schedule for said items or conditions; and

(3) Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.

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

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

The PMP extension notification does not require the certification by an "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 an "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.11 Prior Permits Superseded [326 IAC 2-1.1-9.5]

(a) All terms and conditions of permits established prior to M065-25152-00035 and issued pursuant to permitting programs approved into the state implementation plan have been either:

(1) incorporated as originally stated,

(2) revised, or

(3) deleted.

(b) All previous registrations and permits are superseded by this permit.

B.12 Termination of Right to Operate [326 IAC 2-6.1-7(a)]

The Permittee's right to operate this source terminates with the expiration of this permit unless a timely and complete renewal application is submitted at least ninety (90) days prior to the date of expiration of the source's existing permit, consistent with 326 IAC 2-6.1-7.

B.13 Permit Renewal [326 IAC 2-6.1-7]

(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 2-6.1-7. Such information shall be included in the application for each emission unit at this source. The renewal application does require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

Request for renewal shall be submitted to:

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

(b) A timely renewal application is one that is:

(1) Submitted at least ninety (90) days prior to the date of the expiration of this permit; and

(2) If the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the

document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ on or before the date it is due.

(c) If the Permittee submits a timely and complete application for renewal of this permit, the source's failure to have a permit is not a violation of 326 IAC 2-6.1 until IDEM, OAQ takes final action on the renewal application, except that this protection shall cease to apply if, subsequent to the completeness determination, the Permittee fails to submit by the deadline specified in writing by IDEM, OAQ any additional information identified as being needed to process the application.

B.14 Permit Amendment or Revision [326 IAC 2-5.1-3(e)(3)][326 IAC 2-6.1-6]

(a) Permit amendments and revisions are governed by the requirements of 326 IAC 2-6.1-6 whenever the Permittee seeks to amend or modify this permit.

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

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

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

(c) The Permittee shall notify the OAQ within thirty (30) calendar days of implementing a notice-only change. [326 IAC 2-6.1-6(d)]

B.15 Source Modification Requirement

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

B.16 Inspection and Entry
[326 IAC 2-5.1-3(e)(4)(B)][326 IAC 2-6.1-5(a)(4)][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 permitted 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.17 Transfer of Ownership or Operational Control [326 IAC 2-6.1-6]

(a) The Permittee must comply with the requirements of 326 IAC 2-6.1-6 whenever the Permittee seeks to change the ownership or operational control of the source and no other change in the permit is necessary.

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

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

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

(c) The Permittee may implement notice-only changes addressed in the request for a notice-only change immediately upon submittal of the request. [326 IAC 2-6.1-6(d)(3)]

B.18 Annual Fee Payment [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.

(b) 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.19 Credible Evidence [326 IAC 1-1-6]

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

SECTION C SOURCE OPERATION CONDITIONS

Entire Source

Emission Limitations and Standards [326 IAC 2-6.1-5(a)(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 Permit Revocation [326 IAC 2-1.1-9]

Pursuant to 326 IAC 2-1.1-9 (Revocation of Permits), this permit to operate may be revoked for any of the following causes:

(a) Violation of any conditions of this permit.

(b) Failure to disclose all the relevant facts, or misrepresentation in obtaining this permit.

(c) Changes in regulatory requirements that mandate either a temporary or permanent reduction of discharge of contaminants. However, the amendment of appropriate sections of this permit shall not require revocation of this permit.

(d) Noncompliance with orders issued pursuant to 326 IAC 1-5 (Episode Alert Levels) to reduce emissions during an air pollution episode.

(e) For any cause which establishes in the judgment of IDEM, the fact that continuance of this permit is not consistent with purposes of this article.

C.3 Opacity [326 IAC 5-1]

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

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

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

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

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

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

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

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

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

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

(a) Notification requirements apply to each owner or operator. If the combined amount of regulated asbestos containing material (RACM) to be stripped, removed or disturbed is at least 260 linear feet on pipes or 160 square feet on other facility components, or at least thirty-five (35) cubic feet on all facility components, then the notification requirements of 326 IAC 14-10-3 are mandatory. All demolition projects require notification whether or not asbestos is present.

(b) The Permittee shall ensure that a written notification is sent on a form provided by the Commissioner at least ten (10) working days before asbestos stripping or removal work or before demolition begins, per 326 IAC 14-10-3, and shall update such notice as necessary, including, but not limited to the following:

(1) When the amount of affected asbestos containing material increases or decreases by at least twenty percent (20%); or

(2) If there is a change in the following:

(A) Asbestos removal or demolition start date;

(B) Removal or demolition contractor; or

(C) Waste disposal site.

(c) The Permittee shall ensure that the notice is postmarked or delivered according to the guidelines set forth in 326 IAC 14-10-3(2).

(d) The notice to be submitted shall include the information enumerated in 326 IAC 14-10-3(3).

All required notifications shall be submitted to:

Indiana Department of Environmental Management
Asbestos Section, Office of Air Quality
100 North Senate Avenue
MC 61-52 IGCN 1003
Indianapolis, Indiana 46204-2251

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 an "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 2-6.1-5(a)(2)]

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

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

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

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

no later than thirty-five (35) days prior to the intended test date. The protocol submitted by the Permittee does not require certification by an "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 an "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]

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 2-6.1-5(a)(2)]

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

Compliance with applicable requirements shall be documented as required by this permit. The Permittee shall be responsible for installing any necessary equipment and initiating any required monitoring related to that equipment. All monitoring and record keeping requirements not already legally required shall be implemented when operation begins.

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

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

C.12 Instrument Specifications [326 IAC 2-1.1-11]

(a) When required by any condition of this permit, an analog instrument used to measure a parameter related to the operation of an air pollution control device shall have a scale such that the expected maximum reading for the normal range shall be no less than twenty percent (20%) of full scale.

(b) The Permittee may request that the IDEM, OAQ approve the use of an instrument that does not meet the above specifications provided the Permittee can demonstrate that an alternative instrument specification will adequately ensure compliance with permit conditions requiring the measurement of the parameters.

Corrective Actions and Response Steps

C.13 Response to Excursions or Exceedances

(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; and/or

(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

(a) When the results of a stack test performed in conformance with Section C - Performance Testing, of this permit exceed the level specified in any condition of this permit, the Permittee shall take appropriate response actions. The Permittee shall submit a description of these response actions to IDEM, OAQ, within thirty (30) days of receipt of the test results. The Permittee shall take appropriate action to minimize excess emissions from the affected facility while the response actions are being implemented.

(b) A retest to demonstrate compliance shall be performed within one hundred twenty (120) days of receipt of the original test results. Should the Permittee demonstrate to IDEM, OAQ that retesting in one hundred twenty (120) days is not practicable, IDEM, OAQ may extend the retesting deadline.

(c) IDEM, OAQ reserves the authority to take any actions allowed under law in response to noncompliant stack tests.

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

Record Keeping and Reporting Requirements [326 IAC 2-6.1-5(a)(2)]

C.15 Malfunctions Report [326 IAC 1-6-2]

Pursuant to 326 IAC 1-6-2 (Records; Notice of Malfunction):

(a) A record of all malfunctions, including startups or shutdowns of any facility or emission control equipment, which result in violations of applicable air pollution control regulations or applicable emission limitations shall be kept and retained for a period of three (3) years and shall be made available to the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ) or appointed representative upon request.

(b) When a malfunction of any facility or emission control equipment occurs which lasts more than one (1) hour, said condition shall be reported to OAQ, using the Malfunction Report Forms (2 pages). Notification shall be made by telephone or facsimile, as soon as practicable, but in no event later than four (4) daytime business hours after the beginning of said occurrence.

(c) Failure to report a malfunction of any emission control equipment shall constitute a violation of 326 IAC 1-6, and any other applicable rules. Information of the scope and expected duration of the malfunction shall be provided, including the items specified in 326 IAC 1-6-2(a)(1) through (6).

(d) Malfunction is defined as any sudden, unavoidable failure of any air pollution control equipment, process, or combustion or process equipment to operate in a normal and usual manner. [326 IAC 1-2-39]

C.16 General Record Keeping Requirements [326 IAC 2-6.1-5]

(a) Records of all required monitoring data, reports and support information required by this permit shall be retained for a period of at least five (5) years from the date of monitoring sample, measurement, report, or application. These records shall be physically present or electronically accessible at the source location for a minimum of three (3) years. The records may be stored elsewhere for the remaining two (2) years as long as they are available upon request. If the Commissioner 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.17 General Reporting Requirements [326 IAC 2-1.1-11] [326 IAC 2-6.1-2] [IC 13-14-1-13]

(a) Reports required by conditions in Section D of this permit shall be submitted to:

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

(b) 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.

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

(d) The first report shall cover the period commencing on the date of issuance of this permit and ending on the last day of the reporting period. Reporting periods are based on calendar years, unless otherwise specified in this permit. For the purpose of this permit “calendar year” means the twelve (12) month period from January 1 to December 31 inclusive.

SECTION D.1 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

(a) Two (2) natural gas or No. 2 distillate fuel-fired boilers, identified as B-1 and B-2, constructed in 1971, each with a maximum capacity of 12.6 million British thermal units per hour (MMBtu/hr), both exhausting to stack B-1. The No. 2 distillate fuel used in each boiler has a maximum sulfur content of 0.1%

(b) Natural gas-fired combustion sources with heat input equal to or less than ten million (10,000,000) British thermal units per our (MMBtu/hr) including:

(1) One (1) boiler, identified as B-3, constructed in 1997, capacity: 0.6 MMBtu/hr.

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

Emission Limitations and Standards]326 IAC 2-6.1-5(a)(1)]

D.1.1 Particulate Matter (PM) [326 IAC 6-2-3]

Pursuant to 326 IAC 6-2-3(d) (Particulate Matter Emission Limitations for Sources of Indirect Heating), the PM emissions from each of the two (2) boilers, identified as B-1 and B-2, shall be limited to 0.8 pound per MMBtu heat input.

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

Pursuant to 326 IAC 6-2-4, the PM emissions from the one (1) boiler, identified as B-3, shall not exceed 0.6 pound per milllion British thermal units.

D.1.3 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

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

Compliance Monitoring Requirements [326 IAC 2-6.1-5(a)(2)]

D.1.4 Visible Emissions Notations

(a) Visible emission notations of the boiler stack (B1) exhaust shall be performed once per day during normal daylight operations when operating on No. 2 distillate oil. A trained employee shall record whether emissions are normal or abnormal.

(b) For processes operated continuously, "normal" means those conditions pervailing, 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 acordance with Section C - Response to Excursions or Exceedances shall be considered a deviation from this permit.

Record Keeping and Reporting Requirements [326 IAC 2-6.1-5(a)(2)]

D.1.5 Record Keeping Requirement

(a) To document compliance with Condition D.1.1, and D.1.3, the Permittee shall maintain records in accordance with (1) through (6) below.

(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) To certify compliance when burning natural gas only, the Permittee shall maintain records of fuel used.

If the fuel supplier certification is used to demonstrate compliance, when burning alternate fuels and not determining compliance pursuant to 326 IAC 3-7-4, 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.

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

(b) To document compliance with Condition D.1.5, the Permittee shall maintain records of visible emission notations of the boiler stack exhaust once per day when operating on fuel other than natural gas. The Permittee shall include in its daily record when a visible emission is not taken and the reason for the lack of visible emission notation, (e.g., the process did not operate that day).

(c) All records shall be maintained in accordance with Section C- General Record Keeping Requirements, of this permit.

D.1.6 Reporting Requirements

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

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE BRANCH

MINOR SOURCE OPERATING PERMIT
ANNUAL NOTIFICATION

This form should be used to comply with the notification requirements under 326 IAC 2-6.1-5(a)(5).

Company Name:	Henry County Memorial Hospital
Address:	1000 North 16th Street
City:	New Castle, Indiana 47362
Phone #:	(765) 521-1519
MSOP #:	M065-25152-00035

I hereby certify that Henry County Memorial Hospital is : ☐ still in operation.
☐ no longer in operation.

I hereby certify that Henry County Memorial Hospital is : ☐ in compliance with the requirements of MSOP M065-25152-00035.
☐ not in compliance with the requirements of MSOP M065-25152-00035.

Authorized Individual (typed):
Title:
Signature:
Date:

If there are any conditions or requirements for which the source is not in compliance, provide a narrative description of how the source did or will achieve compliance and the date compliance was, or will be achieved.

Noncompliance:

MALFUNCTION REPORT

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
FAX NUMBER - 317 233-6865

This form should only be used to report malfunctions applicable to Rule 326 IAC 1-6 and to qualify for the exemption under 326 IAC 1-6-4.

THIS FACILITY MEETS THE APPLICABILITY REQUIREMENTS BECAUSE IT HAS POTENTIAL TO EMIT 25 TONS/YEAR PARTICULATE MATTER ?_____, 25 TONS/YEAR SULFUR DIOXIDE ?_____, 25 TONS/YEAR NITROGEN OXIDES?_____, 25 TONS/YEAR VOC ?_____, 25 TONS/YEAR HYDROGEN SULFIDE ?_____, 25 TONS/YEAR TOTAL REDUCED SULFUR ?_____, 25 TONS/YEAR REDUCED SULFUR COMPOUNDS ?_____, 25 TONS/YEAR FLUORIDES ?_____, 100 TONS/YEAR CARBON MONOXIDE ?_____, 10 TONS/YEAR ANY SINGLE HAZARDOUS AIR POLLUTANT ?_____, 25 TONS/YEAR ANY COMBINATION HAZARDOUS AIR POLLUTANT ?_____, 1 TON/YEAR LEAD OR LEAD COMPOUNDS MEASURED AS ELEMENTAL LEAD ?_____, OR IS A SOURCE LISTED UNDER 326 IAC 2-5.1-3(2) ?_____. EMISSIONS FROM MALFUNCTIONING CONTROL EQUIPMENT OR PROCESS EQUIPMENT CAUSED EMISSIONS IN EXCESS OF APPLICABLE LIMITATION _____.

THIS MALFUNCTION RESULTED IN A VIOLATION OF: 326 IAC _____ OR, PERMIT CONDITION # _____ AND/OR PERMIT LIMIT OF _____

THIS INCIDENT MEETS THE DEFINITION OF "MALFUNCTION" AS LISTED ON REVERSE SIDE ? Y N

THIS MALFUNCTION IS OR WILL BE LONGER THAN THE ONE (1) HOUR REPORTING REQUIREMENT ? Y N

COMPANY:_____PHONE NO. ( )_____
LOCATION: (CITY AND COUNTY)_____
PERMIT NO. _____ AFS PLANT ID: _____ AFS POINT ID: _____ INSP:_____
CONTROL/PROCESS DEVICE WHICH MALFUNCTIONED AND REASON:_____
_____

DATE/TIME MALFUNCTION STARTED: _____/_____/ 20____ _____ AM / PM

ESTIMATED HOURS OF OPERATION WITH MALFUNCTION CONDITION: _____

DATE/TIME CONTROL EQUIPMENT BACK-IN SERVICE_____/_____/ 20____ _____ AM/PM

TYPE OF POLLUTANTS EMITTED: TSP, PM-10, SO2, VOC, OTHER:_____

ESTIMATED AMOUNT OF POLLUTANT EMITTED DURING MALFUNCTION: _____

_____

MEASURES TAKEN TO MINIMIZE EMISSIONS:_____

_____

REASONS WHY FACILITY CANNOT BE SHUTDOWN DURING REPAIRS:

CONTINUED OPERATION REQUIRED TO PROVIDE ESSENTIAL* SERVICES:_____
CONTINUED OPERATION NECESSARY TO PREVENT INJURY TO PERSONS:_____
CONTINUED OPERATION NECESSARY TO PREVENT SEVERE DAMAGE TO EQUIPMENT:_____
INTERIM CONTROL MEASURES: (IF APPLICABLE)_____
_____
_____

MALFUNCTION REPORTED BY:_____TITLE:_____
(SIGNATURE IF FAXED)

MALFUNCTION RECORDED BY:_____DATE:_____TIME:_____
*SEE PAGE 2

Please note - This form should only be used to report malfunctions applicable to Rule 326 IAC 1-6 and to qualify for the exemption under 326 IAC 1-6-4.

326 IAC 1-6-1 Applicability of rule

Sec. 1. This rule applies to the owner or operator of any facility required to obtain a permit under 326 IAC 2-5.1 or 326 IAC 2-6.1.

326 IAC 1-2-39 "Malfunction" definition

Sec. 39. Any sudden, unavoidable failure of any air pollution control equipment, process, or combustion or process equipment to operate in a normal and usual manner.

***Essential services** are interpreted to mean those operations, such as, the providing of electricity by power plants. Continued operation solely for the economic benefit of the owner or operator shall not be sufficient reason why a facility cannot be shutdown during a control equipment shutdown.

If this item is checked on the front, please explain rationale:

_____

_____

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

SEMI-ANNUAL NATURAL GAS FIRED BOILER CERTIFICATION

Source Name: Henry County Memorial Hospital
Source Address: 1000 North 16th Street, New Castle, Indiana 47362
Mailing Address: 1000 North 16th Street, New Castle, Indiana 47362
MSOP Permit No.: M065-25152-00035

☐ Natural Gas Only ☐ Alternate Fuel burned From:_____ To:_____

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

A certification by an authorized individual as defined by 326 IAC 2-1.1-1(1) is required for this report.

Indiana Department of Environmental Management
Office of Air Quality

Technical Support Document (TSD) for a Minor Source Operating Permit

Source Background and Description

Source Name:	Henry County Memorial Hospital
Source Location:	1000 North 16th Street, New Castle, Indiana 47362
County:	Henry
SIC Code:	8062
Operation Permit No.:	T065-22334-00035
Operation Permit Issuance Date:	November 1, 2006
Permit No.:	M065-25152-00035
Permit Reviewer:	Marcia Earl

The Office of Air Quality (OAQ) has reviewed the operating permit application to transition from a Title V Operating Permit to a Minor Source Operating Permit from Henry County Memorial Hospital relating to the operation of a stationary general medical hospital.

History

On November 1, 2006 Henry County Memorial Hospital was issued a Title V renewal T065-22334-00035. On August 17, 2007 Henry County Hospital submitted an application to transition from a Title V Operating Permit to a Minor Source Operating Permit due to permanently shutting down and removing the medical waste incinerator (I-1) on August 9, 2006. This will reduce potential emissions of all criteria pollutants below Title V levels.

Permitted Emission Units and Pollution Control Equipment

(a) Two (2) natural gas or No. 2 distillate fuel-fired boilers, identified as B-1 and B-2, constructed in 1971, each with a maximum capacity of 12.6 million British thermal units per hour (MMBtu/hr), both exhausting to stack B-1. The No. 2 distillate fuel used in each boiler has a maximum sulfur content of 0.1%.

(b) Natural gas-fired combustion sources with heat input equal to or less than ten million (10,000,000) British thermal units per hour (MMBtu/hr) including:

(1) One (1) boiler, identified as B-3, constructed in 1997, capacity: 0.6 MMBtu/hr.

(c) Emergency diesel generators not exceeding 1,600 horsepower, including:

(1) One (1) generator for emergency power and peak shaving, identified as G-1, installed in 1979, rated at 1,012 horsepower (755 kilowatts), and

(2) One (1) generator for emergency power and peak shaving, identified as G-2, installed in 1993, rated at 1,135 horsepower (750 kilowatts).

(d) One (1) underground diesel storage tank, identified as T-2, constructed in 1992, with a maximum capacity of 10,000 gallons. This unit dispenses a petroleum fuel other than gasoline and dispenses less than or equal to 230,000 gallons per month.

(e) Degreasing operations that do not exceed 145 gallons per 12 months, except if subject to 326 IAC 20-6. There are no degreasing stations. Approximately 55 gallons of xylenes are used each year in laboratory activities.

(f) Cleaners and solvents characterized as follows:

(1) having a vapor pressure equal to or less than 2 kiloPascals; 15 millimeters of mercury; or 0.3 pounds per square inch measured at 38˚C (100˚F) or;

(2) having a vapor pressure equal to or less than 0.7 kiloPascals; 5 millimeters of mercury; or 0.1 pounds per square inch measured at 20˚C (68˚F); the use of which for all cleaners and solvents combined does not exceed 145 gallons per 12 months.

(g) Closed loop heating and cooling systems.

(h) Heat exchanger cleaning and repair.

(i) Paved and unpaved roads and parking lots with public access.

(j) Purging of gas lines and vessels that are related to routine maintenance and repair of buildings, structures, or vehicles at the source where air emissions from those activities would not be associated with any production process.

(k) Blowdown for any of the following: sight glass; boiler; compressors; pumps; and cooling tower.

(l) A laboratory as defined in 326 IAC 2-7-1(21)(D).

(m) One (1) ethylene oxide sterilizer, emitting greater than 1 pound per day but less than 5 pounds per day or 1 tons per year of a single HAP.

(n) One (1) underground diesel storage tank, identified as T-1, constructed in 1971, capacity: 30,000 gallons.

Emission Units and Pollution Control Equipment Removed from the Source

On August 17, 2007 the Henry County Memorial Hospital submitted a letter to IDEM, OAQ, stating that Henry County Memorial Hospital as of August 9, 2006 would permanently shut down the following equipment.

One (1) multiple chamber medical waste incinerator, identified as I-1, with a maximum throughput of 450 pounds of medical waste per hour and a maximum capacity of 4.75 million British thermal units per hour (MMBtu/hr), constructed in June 1989, using a wet scrubber as emissions control, exhausting to stack I-1, with a primary chamber and a secondary chamber natural gas burner.

This proposed permit is a transition from a Part 70 permit to a Minor Source Operating Permit (MSOP) due to the permanent shutdown of the medical waste incinerator, identified as I-1. As a result Henry County Memorial Hospital's potential to emit would be below Title V thresholds.

Existing Approvals

This source has been operating under the previous Part 70 permit T065-22334-00035 issued on November 1, 2006 with an expiration date of November 1, 2011, with no amendments or revisions.

The conditions removed from the Part 70 permit T065-22334-00035, due to permanently shutting down the medical waste incinerator, identified as I-1 is as follows:

D.1.1 General Provisions Relating to NSPS [326 IAC 12-1] [40 CFR 60, Subpart Ce] [40 CFR 60, Subpart Ec]

The provisions of 40 CFR 60, Subpart A - General Provisions, which are incorporated as 326 IAC 12-1-1, apply to the medical waste incinerator (I-1) and its control units, except when other wise specified in 40 CFR 60, Subpart Ce and 40 CFR 60, Ec.

D.1.2 Hospital/Medical/Infectious Waste Incinerators [326 IAC 11-6-4] [40 CFR 60, Subpart Ce] [40 CFR 60, Subpart Ec]

(a) Pursuant to 326 IAC 11-6-4 (HMIWI - Emission Limits) and 40 CFR 60.33e(a), the Permittee shall comply with the following limitations:

(1) Particulate Matter (PM) emissions shall not exceed 0.03 grains per dry standard cubic foot;

(2) Carbon Monoxide (CO) emissions shall not exceed 40 parts per million by volume;

(3) Dioxins/furans shall not exceed 55 grains per billion dry standard cubic feet total dioxins/furans, or 1.0 grains per billion dry standard cubic feet toxic equivalent quantity (TEQ);

(4) Hydrogen chloride (HCI) emissions shall not exceed 100 parts per million by volume, or a 93% reduction;

(5) Sulfur dioxide (SO_2) emissions shall not exceed 55 parts per million by volume;

(6) Nitrogen oxide (NOx) emissions shall not exceed 250 parts per million by volume;

(7) Lead (Pb) emissions shall not exceed 0.52 grains per thousand dry standard cubic feet or a 70% reduction;

(8) Cadmium (Cd) emissions shall not exceed 0.07 grains per thousand dry standard cubic feet or a 65% reduction; and

(9) Mercury (Hg) emissions shall not exceed 0.24 grains per thousand dry standard cubic feet or a 85% reduction.

(b) Pursuant to 326 IAC 11-6-4 (HMIWI - Emission Limits) and 40 CFR 60.52c(b), the Permittee shall comply with the following requirements:

(1) Discharge into the atmosphere of any gases shall not exceed ten percent (10%) opacity.

D.1.3 Carbon Monoxide Emission Limits [326 IAC 9-1-2]

Pursuant to 326 IAC 9-1-2, the waste gas stream from the medical waste incinerator shall be burned in a direct-flame afterburner.

D.1.4 Incinerator [326 IAC 4-2-2]

(a) Pursuant to 326 IAC 4-2-2(a), the medical waste incinerator, rated at 450 pounds per hour, shall:

(1) Consist of primary and secondary chambers or the equivalent;

(2) Be equipped with a primary burner unless burning wood products;

(3) Comply with 326 IAC 5-1 (Opacity Limitations) and 326 IAC 2 (Permit Review Rules);

(4) Be maintained as specified by the manufacturer and approved by IDEM;

(5) Be operated according to the manufacturer's recommendation and only burn waste approved by IDEM;

(6) Comply with other state and/or local rules or ordinances regarding installation and operation of incinerators;

(7) Be operated so that emissions of hazardous materials including, but not limited to, viable pathogenic bacteria, dangerous chemical or gases, or noxious odors are prevented;

(8) Not create a nuisance or a fire hazard; and

(9) Not emit particulate matter (PM) in excess of 0.3 pounds PM per 1,000 pounds of dry exhaust gas under standard conditions corrected to fifty percent (50%) excess air.

The operation of the incinerator shall be terminated immediately upon noncompliance with any of the above mentioned requirements.

(b) Pursuant to 326 IAC 4-2-2(c), the Permittee shall maintain, implement, and reviewed on an annual basis, an operation and maintenance plan to comply with the following:

(1) Procedures for receiving, handling, and charging waste.

(2) Procedures for incinerator startup and shutdown.

(3) Procedures for responding to a malfunction.

(4) Procedures for maintaining proper combustion air supply levels.

(5) Procedures for operating the incinerator and associated air pollution control systems.

(6) Procedures for handling ash.

(7) A list of wastes that can be burned in the incinerator.

(c) The operation and maintenance plan must be readily accessible to incinerator operators.

(d) The Permittee shall make the manufacturer's specifications or the operation and maintenance plan available to IDEM, OAQ, upon request.

D.1.5 Operator Training and Qualification Requirements [326 IAC 11-6-5] [40 CFR 60, Subpart Ec]

Pursuant to 326 IAC 11-6-5 and 40 CFR 60.53c, the Permittee shall not operate the medical waste incinerator at any time unless a fully trained and qualified Hospital/Medical/Infectious Waste Incinerator (HMIWI) operator is accessible either at the facility or available within one (1) hour. Operator training and qualification shall be obtained through a State-approved program or by completing the following requirements:

(a) Training shall be obtained by completing an HMIWI operator training course that includes, at a minimum, the following provisions:

(1) 24 hours of training on the following subjects:

(i) Environmental concerns, including pathogen destruction and types of emissions;

(ii) Basic combustion principles, including products of combustion;

(iii) Operation of the type of incinerator to be used by the operator, including proper startup, waste charging, and shutdown procedures;

(iv) Combustion controls and monitoring;

(v) Operation of air pollution control equipment and factors affecting performance (if applicable);

(vi) Methods to monitor pollutants (continuous emission monitoring systems and monitoring of HMIWI and air pollution control device operating parameters) and equipment calibration procedures (where applicable);

(vii) Inspection and maintenance of the HMIWI, air pollution control devices, and continuous emission monitoring systems;

(viii) Actions to correct malfunctions or conditions that may lead to malfunctions;

(ix) Bottom and fly ash characteristics and handling procedures;

(x) Applicable Federal, State, and local regulations;

(xi) Work safety procedures;

(xii) Pre-startup inspections; and

(xiii) Recordkeeping requirements.

(2) An examination designed and administered by the instructor.

(3) Reference material distributed to the attendees covering the course topics.

(b) Qualification shall be obtained by:

(1) Completion of a training course that satisfies the criteria under paragraph (c) of this section; and

(2) Either 6 months experience as an HMIWI operator, 60 months experience as a direct supervisor of an HMIWI operator, or completion of at least two burn cycles under the observation of two qualified HMIWI operators.

(c) Qualification is valid from the date on which the examination is passed or the completion of the required experience, whichever is later.

(d) To maintain qualification, the trained and qualified HMIWI operator shall complete and pass an annual review or refresher course of at least 4 hours covering, at a minimum, the following:

(1) Update of regulations;

(2) Incinerator operation, including startup and shutdown procedures;

(3) Inspection and maintenance;

(4) Response to malfunctions or conditions that may lead to malfunction; and

(5) Discussion of operating problems encountered by attendees.

(e) A lapsed qualification shall be renewed by one of the following methods:

(1) For a lapse of less than 3 years, the HMIWI operator shall complete and pass a standard annual refresher course described in paragraph (f) of this section.

(2) For a lapse of 3 years or more, the HMIWI operator shall complete and pass a training course with the minimum criteria described in paragraph (c) of this section.

(f) The Permittee shall maintain, and review on an annual basis, documentation at the facility that addresses the following:

(1) Summary of the applicable standards under this subpart.

(2) Description of basic combustion theory applicable to an HMIWI;

(3) Procedures for receiving, handling, and charging waste;

(4) HMIWI startup, shutdown, and malfunction procedures;

(5) Procedures for maintaining proper combustion air supply levels;

(6) Procedures for operating the HMIWI and associated air pollution control systems within the standards established under this subpart;

(7) Procedures for responding to periodic malfunction or conditions that may lead to malfunction;

(8) Procedures for monitoring HMIWI emissions;

(9) Reporting and recordkeeping procedures; and

(10) Procedures for handling ash.

D.1.6 Waste Management Plan [326 IAC 11-6-6] [40 CFR 60, Subpart Ec.55c]

Pursuant to 326 IAC 11-6-6, the Permittee shall maintain and implement a waste management plan as specified in 40 CFR 60.55c, with the following requirements;

(a) The waste management plan shall identify both the feasibility and the approach to separate certain components of solid waste from the health care waste stream in order to reduce the amount of toxic emissions from incinerated waste.

(b) A waste management plan may include, but is not limited to, elements such as paper, cardboard, plastics, glass, battery, or metal recycling; or purchasing recycled or recyclable products.

(c) A waste management plan may include different goals or approaches for different areas or departments of the facility and need not include new waste management goals for every waste stream.

(d) It should identify, where possible, reasonably available additional waste management measures, taking into account the effectiveness of waste management measures already in place, the costs of additional measures, the emission reductions expected to be achieved, and any other environmental or energy impacts they might have.

(e) The American Hospital Association publication entitled " an Ounce of Prevention: Waste Reduction Strategies for Health Care Facilities" (incorporated by reference, see §60.17) shall be considered in the development of the waste management plan.

D.1.7 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

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

D.1.8 Testing Requirements [326 IAC 2-7-6(1),(6)] [326 IAC 2-1.1-11] [326 IAC 11-6-7] [40 CFR 60, Subpart Ce]

(a) Pursuant to 40 CFR 60.56c(c)(2), annual performance testing to demonstrate compliance with the PM, CO, and HCI emission limits established in D.1.2 shall be performed each year following the initial performance test. If all three (3) performance tests over a three (3)-year period indicate compliance with the emission limit for a pollutant (PM, CO, or HCI), the Permittee may forego a performance test for that pollutant for the subsequent two (2) years. At a minimum, a performance test for PM, CO, and HCI shall be conducted every third year (no more than thirty-six (36) months following the previous valid performance test). If a performance test conducted every third year indicates compliance with the emission limit for a pollutant (PM, CO, or HCI), the Permittee may forego a performance test for that pollutant for an additional two (2) years. If any performance test indicated noncompliance with the respective emission limit, a performance test for that pollutant shall be conducted annually (no more than (12) months following the previous valid performance test) until all annual performance tests over a three (3)-year period indicate compliance with the emission limit. The use of the bypass stack during a performance test shall invalidate the performance test.

(1) The most recent performance tests for particulate matter (PM) from Stack l-1, (exhausting emissions from the medical waste incinerator) were conducted May 2, 2001, June 24, 2002 and April 22, 2003. All three tests were within compliance limits. Therefore, the next PM compliance test shall be performed no later than April 22, 2006.

(2) The most recent compliance tests for carbon monoxide (CO) from Stack l-1 were conducted October 27, 2003, May 6, 2004, and April 7, 2005. Therefore, the next compliance test for CO shall be performed no later than April 7, 2008.

(3) The most recent performance tests for hydrogen chloride (HCI) from Stack l-1 were conducted May 2, 2001, June 24, 2002, and April 22, 2003. All three tests were within compliance limits. Therefore, the next HCI compliance test shall be performed no later than April 22, 2006.

(b) Pursuant to 40 CFR 60.56c(c)(1), the Permittee shall determine compliance with the opacity limit established in Condition D.1.2 by conducting an annual performance test prior to April 7, 2006 and every twelve (12) months thereafter.

(c) IDEM may require compliance testing at any specific time when necessary to determine if the facility is in compliance. If testing is required by IDEM, compliance shall be determined by a performance test conducted in accordance with Section C - Performance Testing.

D.1.9 Scrubber Operation [326 IAC 11-6] [40 CFR 60, Subpart Ce]

In order to comply with 326 IAC 11-6 and 40 CFR 60, Subpart Ce, the wet scrubber shall be in operation at all times when the medical waste incinerator is in operation.

D.1.10 Monitoring [326 IAC 11-6-7] [40 CFR 60, Subpart EC]

Pursuant to 326 IAC 11-6-7(c) and 40 CFR 60.57c, the Permittee shall:

(a) Calibrate (to manufacturers' specification), maintain, and operating devices (or establish methods) for monitoring the applicable maximum and minimum operating parameters listed below, such that these devices (or methods) measure and record values for these operating parameters at the frequencies at all times except during periods of startup and shutdown.

(1) Maximum charge rate;

(2) Maximum flue gas temperature;

(3) Minimum secondary chamber temperature;

(4) Minimum pressure drop across the wet scrubber or minimum horsepower or amperage to wet scrubber;

(5) Minimum scrubber liquor flow rate; and

(6) Minimum scrubber liquor pH.

(b) Install, calibrate (to manufacturers' specifications), maintain, and operate a device or method for measuring the use of the bypass stack including date, time, and duration.

(c) Obtain monitoring data at all times during HMIWI operation except during periods of monitoring equipment malfunction, calibration, or repair. At a minimum, valid monitoring data shall be obtained for 75 percent of the operation hours per day and for 90 percent of the operating days per calendar quarter that the affected facility is combusting hospital waste and/or medical/infectious waste.

(d) The Permittee shall monitor mercury-containing items in the waste stream as required by the Waste Management Plan.

D.1.11 Record Keeping Requirements

Pursuant to 326 IAC 11-6-8 and 40 CFR 60, Subpart Ec, the Permittee shall:

(a) Maintain the following for a period of at least 5 years:

(1) Records, with calendar dates of each record, of the following:

(i) HMIWI charge dates, times, and weights and hourly charge rates;

(ii) Amount and type of dioxin/furan sorbent used during each hour of operation;

(iii) Amount and type of Hg sorbent used during each hour of operation;

(iv) Amount and type of HCI sorbent used during each hour of operation;

(v) Secondary chamber temperatures recorded during each minute of operation;

(vi) Liquor flow rate to the wet scrubber inlet during each minute of operation;

(vii) Horsepower or amperage to the wet scrubber during each minute of operation;

(viii) Pressure drop across the wet scrubber system during each minute of operation;

(ix) Temperature at the outlet from the wet scrubber during each minute of operation; and

(x) pH at the inlet to the wet scrubber during each minute of operation; and

(xi) Records indicating use of the bypass stack, including dates, times, and durations.

(2) Maintain records with the identification of:

(i) Calendar days for which data on emission rates or operating parameters specified in Condition D.1.12(a)(1) have not been obtained, with an identification of the emission rates or operating parameters not measured, reasons for not obtaining the data, and a description of corrective actions taken.

(ii) Calendar days, times and durations of malfunctions, a description of the malfunction and the corrective action taken.

(iii) Calendar days for which data on emission rates or operating parameters specified under Condition D.1.12(a)(1) exceeded the applicable limits, with a description of the exceedance, reasons for such exceedances, and a description of corrective actions taken.

(3) The results of the initial, annual, and subsequent performance tests conducted to determine compliance with the emission limits and/or to establish operating parameters;

(4) Document compliance with D.1.5 by:

(i) Maintaining records showing the names of HMIWI operators who have completed review of the information in D.1.5(f) as required by D.1.5(g), including the date of the initial review and all subsequent annual reviews;

(ii) Keeping records showing the names of the HMIWI operators who have completed the operator training requirements, including documentation of training and the dates of the training; and

(iii) Records showing the names of the HMIWI operators who have met the criteria for qualification under D.1.5 and the dates of their qualification.

(5) Document compliance with D.1.10 by maintaining records of calibration of any monitoring devices as required for D.1.10.

(b) Keep all records required in (a) of this condition shall be maintained onsite in either paper copy or computer-readable format, unless an alternative format is approved by IDEM.

(c) Pursuant to 326 IAC 11-6-8, 40 CFR 60.53c(h) and to document compliance with Condition D.1.5(f), keep the information required in D.1.5(f) in a readily accessible location for all HMIWI operators. This information, along with records of operator training shall be available to IDEM, OAQ, upon request.

(d) Pursuant to 326 IAC 12 and 40 CFR 60.30e through 40 CFR 60.48c, the Permittee shall record and maintain records for a period of two years of the amounts of each fuel combusted during each day.

D.1.12 Reporting Requirements [326 IAC 11-6-8] [326 IAC 11-6-9] [40 CFR 60.38e]

(a) A semiannual report shall be submitted no more than six (6) months following the previous report. The semiannual report shall include the following information:

(1) The values for the site-specific operating parameters established pursuant to 40 CFR 60.56c(d);

(2) The highest maximum operating parameter and the lowest minimum operating parameter, as applicable, for each operating parameter recorded for the calendar year being reported, pursuant to 40 CFR 60.56c(d), as applicable.

(3) The highest maximum operating parameter and the lowest minimum operating parameter, as applicable for each operating parameter recorded pursuant to §60.56c(d) or (i) for the calendar year preceding the year being reported, in order to provide the Administrator with a summary of the performance of the affected facility over a 2-year period.

(4) Any information recorded for D.1.12(a)(2) for the calendar year being reported.

(5) Any information recorded for D.1.12(a)(2) for the calendar year preceding the year being reported, in order to provide the Administrator with a summary of the performance of the affected facility over a 2-year period.

(6) If a performance test was conducted during the reporting period, the results of that test.

(7) If no exceedances or malfunctions were reported for D.1.12(a)(2) for the calendar year being reported, a statement that no exceedances occurred during the reporting period.

(8) Any use of the bypass stack, the duration, reason for malfunction, and corrective action taken.

(b) The Permittee shall submit semiannual reports containing any information recorded for D.1.12(a)(2) no later than 60 days following the reporting period. Subsequent reports shall be submitted no later than 6 calendar months following the previous report.

(c) The reports required in (a) and (b) of this condition shall be submitted to the address listed in Section C - General Reporting Requirements.

Enforcement Issue

There are no enforcement actions pending.

Stack Summary

Stack ID	Operation	Height (feet)	Diameter (feet)	Flow Rate (acfm)	Temperature (°F)
B-1	Boiler B-1	34	1.66	6,595	275
G-1	Generator G-1	34	0.83	6,540	985
G-2	Generator G-2	34	0.83	7,260	895
T-1	Tank T-1	36	0.25	<0.01	70
T-2	Tank T-2	36	0.25	<0.01	70
E-1	Ethylene Oxide Sterilizer	44	0.1	<0.01	70

Emission Calculations

See Appendix A, pages 1 through 8 of this document for detailed emission calculations

County Attainment Status

The source is located in Henry County.

Pollutant	Designation
SO_2	Better than national standards.
CO	Unclassifiable or attainment effective November 15, 1990.
O_3	Unclassifiable or attainment effective June 15, 2004, for the 8-hour ozone standard.[1]
PM_{10}	Unclassifiable effective November 15, 1990.
NO_2	Cannot be classified or better than national standards.
Pb	Not designated.

[1]Unclassifiable or attainment effective October 18, 2000, for the 1-hour ozone standard which was revoked effective June 15, 2005.
Unclassifiable or attainment effective April 5, 2005, for PM2.5

(a) Ozone Standards

(1) On October 25, 2006, the Indiana Air Pollution Control Board finalized a rule revision to 326 IAC 1-4-1 revoking the one-hour ozone standard in Indiana.

(2) On September 6, 2007, the Indiana Air Pollution Control Board finalized a temporary emergency rule to re-designate Allen, Clark, Elkhart, Floyd, LaPorte, St. Joseph as attainment for the 8-hour ozone standard.

(3) One November 9, 2007, the Indiana Air Pollution Control Board finalized a temporary emergency rule to re-designate Boone, Clark, Elkhart, Floyd, LaPorte, Hamilton, Hancock, Hendricks, Johnson, Madison, Marion, Morgan, Shelby, and St. Joseph as attainment for the 8-hour ozone standard.

(4) 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 ozone. Henry County has been designated as attainment or unclassifiable for ozone. Therefore, VOC emissions and NOx emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.

(b) Henry County has been classified as attainment for $PM_{2.5}$. U.S. EPA has not yet established the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2 for $PM_{2.5}$ emissions. Therefore, until the U.S.EPA adopts specific provisions for PSD review for $PM_{2.5}$ emissions, it has directed states to regulate PM_{10} emissions as surrogate for $PM_{2.5}$ emissions.

(c) Henry County has been classified as attainment or unclassifiable in Indiana for all other criteria pollutants. Therefore, these emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.

(d) Fugitive Emissions
Since this type of operation is not one of the twenty-eight (28) listed source categories under 326 IAC 2-2 and since there are no applicable New Source Performance Standards that were in effect on August 7, 1980, the fugitive particulate matter (PM) and volatile organic compound (VOC) emissions are not counted toward determination of PSD and Emission Offset applicability.

Unrestricted Potential Emission

Table reflects the unrestricted potential emissions of the source.

Pollutant	(tons/year)
PM	2.0
PM_{10}	0.8
SO_2	15.5
VOC	1.0
CO	12.5
NOx	29.0

HAPs	Potential To Emit (tons/year)
Lead	0.001
Arsenic	negligible
Beryllium	negligible
Cadmium	negligible
Chromium	negligible
Manganese	0.001
Mercury	negligible
Nickel	negligible
Benzene	negligible
Dichlorobenzene	negligible
Formaldehyde	0.008
Hexane	0.203
Toluene	negligible
Selenium	0.002
Total	0.215

(a) The potential to emit (as defined in 326 IAC 2-7-1(29)) of all criteria pollutants is less than 100 tons per year. This source is not subject to the provision of 326 IAC 2-7. Therefore, the source will be issued an MSOP.

(b) The potential to emit (as defined in 326 IAC 2-7-1(29)) of any single HAP is less than ten (10) tons per year and/or the potential to emit (as defined in 326 IAC 2-7-1(29)) of a combination of HAPs is less than twenty-five (25) tons per year.

Actual Emissions

The following table shows the actual reported emissions from the source. This information reflects the 2004 OAQ emission data.

Pollutant	**Actual Emissions (tons/year)**
PM	0.30
PM_{10}	0.28
SO_2	0.05
VOC	0.18
CO	2.58
NOx	3.10
Lead	0.00

Potential to Emit After Issuance

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

Limited Potential to Emit (tons/year)							
	PM	PM_{10}	SO_2	VOC	CO	NOx	HAPs
Boilers B-1 and B-2*	1.6	0.8	11.2	0.6	9.3	15.8	0.21
Natural Gas-fired Boiler B-3	0.00	0.00	0.00	0.00	0.2	0.3	0.005
Generators	0.4	0.00	4.3	0.4	3.0	12.9	0.00
Total Emissions	2.0	0.8	15.5	1.0	12.5	29.0	0.215
Title V Major Threshold	100	100	100	100	100	100	10 single 25 total

* Emission rates were taken from the highest PTE from the Natural Gas and No. 2 Distillate fuel calculations.

(a) This existing stationary source is not major for PSD because the emissions of each criteria pollutant are less than one hundred (<100) tons per year, and it is not one of the twenty-eight (28) listed source categories.

(b) Fugitive Emissions
Since this type of operation is not one of the twenty-eight (28) listed source categories under 326 IAC 2-2 or 326 IAC 2-3, fugitive emissions are not counted toward the determination of PSD and Emission Offset applicability.

Federal Rule Applicability

(a) There is no New Source Performance Standards (NSPS) (326 IAC 12 and 40 CFR Part 60) included in this permit for this source

(b) 40 CFR 60, Subpart D (Standards for Performance for Industrial-Commercial-Institutional Steam Generating Units), which is incorporated by reference 326 IAC 12 is not included in this permit. The two (2) natural-gas or distillate fuel-fired boilers (Boilers B-1 and B-2), each with a capacity of 12.6 MMBtu/hr are not subject to the New Source Performance Standard, 40 CFR 60, Subpart D, because each boiler has a heat input capacity less than 250 million British thermal units per hour.

(c) 40 CFR 60, Subpart Da, Db and Dc (Standards for Performance for Industrial-Commercial-Institutional Steam Generating Units), which is incorporated by reference 326 IAC 12 is not included in this permit. The two (2) natural-gas or distillate fuel-fired boilers (Boiler B-1 and B-2), each with a capacity of 12.6 MMBtu/hr are not subject to 40 CFR 60, Subparts Da, Db and Dc because the boilers were constructed prior to September 18, 1978.

(d) 40 CFR 60, Subpart K (Standards of Performance for Storage Vessels for Petroleum Liquids for Which Construction, Reconstruction, or Modification Commenced After June 11, 1973, and Prior to May 19, 1978), which is incorporated by reference 326 IAC 12 is not included in this permit.

The one (1) underground storage tank, identified as T-1, constructed in 1971, with a capacity of 30,000 gallons is not subject to the requirements of 40 CFR 60, Subparts K, Ka and Kb because it was constructed prior to 1973.

The one (1) underground storage tank, identified as T-2, constructed in 1992, with a capacity of 10,000 gallons, is not subject to the requirements of 40 CFR 60, Subparts K, Ka and Kb because it has a capacity less than forty (40) cubic meters.

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

(f) 40 CFR 63, Subpart O (Ethylene Oxide Emission Standards for Sterilization Facilities), which is incorporated by reference 326 IAC 20 is not included in this permit. Pursuant to 40 CFR 63.360(e), this subpart does not apply to ethylene oxide sterilization operations at stationary sources such as hospitals, doctors offices, clinics, or other facilities whose primary purpose is to provide medical services to humans or animals.

(g) 40 CFR 63, Subpart T (National Emission Standard for Halogenated Solvent Cleaning), which is incorporated by reference 326 IAC 20 is not included in this permit. There are no halogenated solvents used in the degreasing operation.

(h) 40 CFR 63, Subpart ZZZZ (National Emission Standard for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines). The 2 diesel-fired emergency generators were constructed prior to December 19, 2002. Therefore each is an existing reciprocating internal combustion engine (RICE). Pursuant to 40 CFR 63.6590(b)(3), an existing emergency stationary RICE does not have to meet the requirements of Subpart ZZZZ or Subpart A of Part 63. Therefore, the requirements of 40 CFR 63, Subpart ZZZZ are not included in this permit.

(i) 40 CFR 64 (Compliance Assurance Monitoring) is not included in this permit. This source is not a major Part 70 source and does not involve a pollutant-specific emission unit with the potential to emit after control in an amount equal to or greater than one hundred (100) tons per year. Therefore, the requirements of 40 CFR Part 64, Compliance Assurance Monitoring, are not included in this permit for this source.

State Rule Applicability – Entire Source

326 IAC 2-2 (Prevention of Significant Deterioration)

This source is not a major source for PSD purposes because no attainment regulated pollutant is emitted at a rate of 250 tons per year or greater and it is not one of the twenty-eight (28) listed source categories.

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

Since all significant facilities were constructed prior to July 27, 1997, the requirements of 326 IAC 2-4.1-1, New Source Toxics Control, are not applicable to this source.

326 IAC 2-6 (Emission Reporting)

This source is located in Henry County, is not required to operate under 326 IAC 2-7 (Part 70), and it does not emit lead at levels equal to or greater than 5 tons per year. Therefore, 326 IAC 2-6 are not applicable to this source.

326 IAC 5-1 (Opacity Emissions 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 this permit:

(a) Opacity shall not exceed an average of forty percent (40%) 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 Part 60, Appendix A, Method 9 or fifteen (15) one (1) minute nonoverlapping integrated averages for a continuous opacity monitor) in a six (6) hour period.

326 IAC 6-4 (Fugitive Dust Emissions)

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).

State Rule Applicability – Individual Facilities

326 IAC 6-2-3 (Particulate Emissions Limitations for Facilities Constructed prior to September 21, 1983)

The two (2) boilers, identified as B-1 and B-2, constructed in 1971, with heat input capacities of 12.6 million British thermal units per hour, each, must comply with the PM emission limitation in 326 IAC 6-2-3. This limitation is based on the following equation given in 326 IAC 6-2-3:

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

where:

Pt = Pounds of PM emitted per million British thermal units (lb/MMBtu) heat input

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

C = Maximum ground level concentration with respect to distance from the point source at the "critical" wind speed for level terrain. This shall equal 50 micrograms per cubic meter for a period not to exceed a sixty (60) minute time period.

N = Number of stacks in fuel burning operation.

a = Plume rise factor which is used to make allowance for less than theoretical plume rise. The value 0.67 shall be used for Q less than or equal to 1,000 MMBtu/hr heat input. The value 0.8 shall be used for Q greater than 1,000 MMBtu/hr heat input.

h = Stack height in feet. This boiler exhausts through a chimney with an exhaust height of approximately 20 feet.

For the two (2) boilers (B-1 and B-2):

$$Pt = 50 \times 0.67 \times 34 / 76.5 \times (25.2)^{0.75} \times 1^{0.25} = 1.32 \text{ lb/MMBtu}$$

Pursuant to 326 IAC 6-2-3(d), Pt shall not exceed 0.8 pound per million British thermal units, for all facilities used for indirect heating purposes which were existing and in operation on or before June 8, 1972. Therefore, the two (2) boilers (B-1 and B-2) are limited to PM emissions of 0.8 pound per million British thermal units.

Based on Appendix A, the total potential PM emission rate is greater when operating on No. 2 fuel oil, and is:

1.58 ton/yr × (2000 lbs/ton / 8760 hrs/yr) = 0.360 lb/hr
(0.360 lb/hr / 25.2 MMBtu/hr) = 0.014 lb PM per MMBtu

Therefore, the two (2) boilers, identified as B-1 and B-2, will comply with this rule.

326 IAC 6-2-4 (Particulate Emissions Limitations for Facilities Constructed after September 21, 1983)

The one (1) boiler, identified as B-3, constructed in 1997, must comply with the requirements of 326 IAC 6-2-4. The emission limitation is based on the following equation given in 326 IAC 6-2-4:

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

where:

Pt = Pounds of particulate matter emitted per million British thermal units (lb/MMBtu) heat input

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

The heat input capacity of the one (1) boiler (B-3) is 0.6 million British thermal units per hour, each. There are two (2) boilers rated at 12.6 million British thermal units per hour, each, in operation when this boiler was constructed.

$Pt = 1.09/(25.8)^{0.26} = 0.47$ lb/MMBtu heat input

Based on the AP-42 emission factors, the potential PM emission rate for this natural gas fired boiler is:

0.6 MMBtu/hr x 1 mmcf/ 1,000 MMBtu = 0.0006 Mmcf/hr
1.9 lb PM/ Mmcf x 0.0006 Mmcf/hr = 0.001 lbs PM/hr
0.001 lbs PM/hr / 0.6 MMBtu/hr = 0.002 lbs PM/MMBtu

Therefore, the one (1) boiler, identified as B-3, will comply with this rule.

326 IAC 7 (Sulfur Dioxide Emission Limitations)

(a) The requirements of 326 IAC 7-1.1 are not applicable to the two (2) boilers because the potential to emit SO_2 from each boiler is less than 10 pounds per hour and 25 tons per year. Any increase in the sulfur content of the No. 2 distillate fuel to more than 0.46 percent will cause the boilers to have a potential to emit SO_2 of 25 tons per year and will require prior IDEM, OAQ, approval.

(b) The two (2) emergency generators, firing No. 2 distillate oil, are not subject to the emission limitations prescribed by 326 IAC 7-1.1-1 (Sulfur Dioxide Emissions Limitations), because each generator has a potential to emit of SO_2 less than twenty-five (25) tons per year or ten (10) tons per hour.

326 IAC 8-3 (Degreasing Operations)

The degreasing operation was installed before January 1, 1980 and this source is located in Henry County and not in Clark, Elkhart, Floyd, Lake, Marion, Porter or St. Joseph Counties. This source does not have the potential to emit VOC emissions of 100 tons per year or greater. Therefore, the requirements of 326 IAC 8-3 (Degreasing Operation) are not applicable to this source.

Compliance Requirements

Permits issued under 326 IAC 2-6.1 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 2-6.1. 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 approporiate corrective actions within a specific time period.

The compliance monitoring and/or compliance determination requirements applicable to this source are as follows:

The two (2) boilers, identified as B-1 and B-2, have applicable compliance monitoring conditions as specified below:

(a) Visible emission notations of the boiler stack (B1) exhaust shall be performed once per day during normal daylight operations when operating on No. 2 distillate oil. A trained employee shall record whether emissions are normal or abnormal.

(b) For process 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 for 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 Exceedancees shall be considered a deviation from this permit.

These monitoring conditions are necessary because the two (2) boilers must operate properly to ensure compliance with 326 IAC 6-2-3 and 326 IAC 2-7.

Recommendation

The staff recommends to the Commissioner that the MSOP 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 submitted by the applicant.

An application for the purposes of this review was received on August 17, 2007.

Conclusion

The operation of this general medical hospital shall be subject to the conditions of this **MSOP 065-25152-00035.**

Appendix A: Emission Summary

Company Name: Henry County Memorial Hospital
Address City Zip: 1000 North 16th Street, New Castle, Indiana 47362
Permit No: M065-25152-00035
Reviewer: Marcia Earl
Date: December 2007

Uncontrolled Emissions

Emission Units	PM	PM_{10}	SO_2	VOC	CO	NOx	HAPs
Boilers B-1 and B-2*	1.60	0.80	11.20	0.60	9.30	15.80	0.21
Natural Gas-fired Boiler B-3	0.00	0.00	0.00	0.00	0.20	0.30	0.005
Generators	0.40	0.00	4.30	0.40	3.00	12.90	0.00
Total	2.00	0.80	15.50	1.00	12.50	29.00	0.215

Controlled Emissions

Emission Units	PM	PM_{10}	SO_2	VOC	CO	NOx	HAPs
Boilers B-1 and B-2*	1.60	0.80	11.20	0.60	9.30	15.80	0.21
Natural Gas-fired Boiler B-3	0.00	0.00	0.00	0.00	0.20	0.30	0.01
Generators	0.40	0.00	4.30	0.40	3.00	12.90	0.00
Total	2.00	0.80	15.50	1.00	12.50	29.00	0.215

* Emission rates were taken from the highest PTE from the Natural Gas and No. 2 Distillate fuel calculations.

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

Company Name: Henry County Memorial Hospital
Address City Zip: 1000 North 16th Street, New Castle, Indiana 47362
Permit Number: M065-25152-00035
Reviewer: Marcia Earl
Date: December 2007

Heat Input Capacity MMBtu/hr	Potential Throughput MMCF/yr
25.2	220.8

UNIT	CAPACITY
B-1	12.6
B-2	12.6
Total	25.2

	Pollutant					
	PM*	PM10*	SO2	NOx	VOC	CO
Emission Factor in lb/MMCF	1.9	7.6	0.6	**see below	5.5	84.0
Potential Emission in tons/yr	0.2	0.8	0.1	11.0	0.6	9.3

*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

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

Company Name: Henry County Memorial Hospital
Address City Zip: 1000 North 16th Street, New Castle, Indiana 47362
Permit Number: M065-25152-00035
Reviewer: Marcia Earl
Date: December 2007

	HAPs - Organics				
	Benzene	Dichlorobenzene	Formaldehyde	Hexane	Toluene
Emission Factor in lb/MMcf	2.1E-03	1.2E-03	7.5E-02	1.8E+00	3.4E-03
Potential Emission in tons/yr	2.318E-04	1.325E-04	8.278E-03	1.987E-01	3.753E-04

	HAPs - Metals				
	Lead	Cadmium	Chromium	Manganese	Nickel
Emission Factor in lb/MMcf	5.0E-04	1.1E-03	1.4E-03	3.8E-04	2.1E-03
Potential Emission in tons/yr	5.519E-05	1.214E-04	1.545E-04	4.194E-05	2.318E-04

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
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)
#1 and #2 Fuel Oil
Boilers

Company Name: Henry County Memorial Hospital
Address, City Zip: 1000 North 16th Street, New Castle, Indiana 47362
Permit Number: M065-25152-00035
Reviewer: Marcia Earl
Date: December 2007

Heat Input Capacity MMBtu/hr	Potential Throughput kgals/year	S = Weight % Sulfur
		0.1
25.2	1576.8	

UNIT	CAPACITY
B-1	12.6
B-2	12.6
Total	25.2

	Pollutant				
	PM*	SO2	NOx	VOC	CO
Emission Factor in lb/kgal	2.0	14.2 *(142.0S)*	20.0	0.34	5.0
Potential Emission in tons/yr	1.6	11.2	15.8	0.3	3.9

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. Condensable PM emission factor is 1.3 lb/kgal.
Emission (tons/yr) = Throughput (kgals/ yr) x Emission Factor (lb/kgal)/2,000 lb/ton

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

Company Name: Henry County Memorial Hospital
Address, City Zip: 1000 North 16th Street, New Castle, Indiana 47362
Permit Number: M065-25152-00035
Reviewer: Marcia Earl
Date: December 2007

	HAPs - Metals				
	Arsenic	Beryllium	Cadmium	Chromium	Lead
Emission Factor in lb/mmBtu	4.0E-06	3.0E-06	3.0E-06	3.0E-06	9.0E-06
Potential Emission in tons/yr	4.42E-04	3.31E-04	3.31E-04	3.31E-04	9.93E-04

	HAPs - Metals (continued)			
	Mercury	Manganese	Nickel	Selenium
Emission Factor in lb/mmBtu	3.0E-06	6.0E-06	3.0E-06	1.5E-05
Potential Emission in tons/yr	3.31E-04	6.62E-04	3.31E-04	1.66E-03

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. Condensable PM emission factor is 1.3 lb/kgal.

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

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
Natural Gas Combustion Only
MM BTU/HR <100
Small Industrial Boiler

Company Name: Henry County Memorial Hospital
Address City Zip: 1000 North 16th Street, New Castle, Indiana 47362
Permit Number: M065-25152-00035
Reviewer: Marcia Earl
Date: December 2007

Heat Input Capacity MMBtu/hr	Potential Throughput MMCF/yr
0.6	5.3

	Pollutant					
	PM*	PM10*	SO2	NOx	VOC	CO
Emission Factor in lb/MMCF	1.9	7.6	0.6	**see below	5.5	84.0
Potential Emission in tons/yr	0.0	0.0	0.0	0.3	0.0	0.2

*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

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

Company Name: Henry County Memorial Hospital
Address City Zip: 1000 North 16th Street, New Castle, Indiana 47362
Permit Number: M065-25152-00035
Reviewer: Marcia Earl
Date: December 2007

	HAPs - Organics				
	Benzene	Dichlorobenzene	Formaldehyde	Hexane	Toluene
Emission Factor in lb/MMcf	2.1E-03	1.2E-03	7.5E-02	1.8E+00	3.4E-03
Potential Emission in tons/yr	5.519E-06	3.154E-06	1.971E-04	4.730E-03	8.935E-06

	HAPs - Metals				
	Lead	Cadmium	Chromium	Manganese	Nickel
Emission Factor in lb/MMcf	5.0E-04	1.1E-03	1.4E-03	3.8E-04	2.1E-03
Potential Emission in tons/yr	1.314E-06	2.891E-06	3.679E-06	9.986E-07	5.519E-06

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