



Mitchell E. Daniels, Jr.
Governor

Thomas W. Easterly
Commissioner

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

TO: Interested Parties / Applicant
DATE: November 1, 2006
RE: Henry County Hospital / 065-22334-00035
FROM: Nisha Sizemore
Chief, Permits Branch
Office of Air Quality

Notice of Decision: Approval – Effective Immediately

Please be advised that on behalf of the Commissioner of the Department of Environmental Management, I have issued a decision regarding the enclosed matter. Pursuant to IC 13-15-5-3, this permit is effective immediately, unless a petition for stay of effectiveness is filed and granted, and may be revoked or modified in accordance with the provisions of IC 13-15-7-1.

If you wish to challenge this decision, IC 4-21.5-3-7 and IC 13-15-6-1(b) or IC 13-15-6-1(a) require that you file a petition for administrative review. This petition may include a request for stay of effectiveness and must be submitted to the Office of Environmental Adjudication, 100 North Senate Avenue, Government Center North, Room 1049, Indianapolis, IN 46204.

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

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

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

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

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

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

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

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

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

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



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PART 70 OPERATING PERMIT RENEWAL OFFICE OF AIR QUALITY

**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.

The Permittee must comply with all conditions of this permit. Noncompliance with any provisions of this permit is grounds for enforcement action; permit termination, revocation and reissuance, or modification; or denial of a permit renewal application. Noncompliance with any provision of this permit, except any provision specifically designated as not federally enforceable, constitutes a violation of the Clean Air Act. It shall not be a defense for the Permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit. An emergency does constitute an affirmative defense in an enforcement action provided the Permittee complies with the applicable requirements set forth in Section B, Emergency Provisions.

This permit is issued in accordance with 326 IAC 2 and 40 CFR Part 70 Appendix A and contains the conditions and provisions specified in 326 IAC 2-7 as required by 42 U.S.C. 7401, et. seq. (Clean Air Act as amended by the 1990 Clean Air Act Amendments), 40 CFR Part 70.6, IC 13-15 and IC 13-17.

Operation Permit No.: T065-22334-00035	
Issued by: Original Signed By: Nisha Sizemore, Chief Permits Branch Office of Air Quality	Issuance Date: November 1, 2006 Expiration Date: November 1, 2011

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SECTION A

SOURCE SUMMARY

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

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

The Permittee owns and operates a stationary medical waste incinerator at a medical hospital source.

Responsible Official:	President
Source Address:	1000 North 16 th Street, New Castle, Indiana 47362
Mailing Address:	P.O. Box 490, 1000 North 16 th 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:	Part 70 Permit Program Minor Source, under PSD and Emission Offset Rules Minor Source, Section 112 of the Clean Air Act

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

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

- (a) One (1) 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, 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.
- (b) 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, and both exhausting to stack B-1. The No. 2 distillate fuel used in each boiler has a maximum sulfur content of 0.1%.

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

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

- (a) Natural gas-fired combustion sources with heat input equal to or less than ten million (10,000,000) British thermal units per hour, including:
 - (1) One (1) boiler, identified as B-3, constructed in 1997, capacity: 0.6 million British thermal units per hour.
- (b) Emergency diesel generators not exceeding 1,600 horsepower, including:
 - (1) One (1) generator for emergency power and peak shaving, rated at 1,012 horsepower (755 kilowatts), and

- (2) One (1) generator for emergency power and peak shaving, rated at 1,135 horsepower (750 kilowatts).
- (c) One (1) underground diesel storage tank, 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.
- (d) 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 xylene are used each year in laboratory and maintenance activities.
- (e) 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 38EC (100EF) 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 20EC (68EF); the use of which for all cleaners and solvents combined does not exceed 145 gallons per 12 months.
- (f) Closed loop heating and cooling systems.
- (g) Heat exchanger cleaning and repair.
- (h) Paved and unpaved roads and parking lots with public access.
- (i) Purging of gas lines and vessels that is related to routine maintenance and repair of buildings, structures, or vehicles at the source where air emissions from those activities would not be associated with any production process.
- (j) Equipment used to collect any material that might be released during a malfunction, process upset, or spill cleanup, including catch tanks, temporary liquid separators, tanks, and fluid handling equipment.
- (k) Blowdown for any of the following: sight glass; boiler; compressors; pumps; and cooling tower.
- (l) Vents from ash transport systems not operated at positive pressure.
- (m) A laboratory as defined in 326 IAC 2-7-1(21)(D).
- (n) 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.
- (o) One (1) underground diesel storage tank, constructed in 1971, capacity: 30,000 gallons.

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

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

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

SECTION B GENERAL CONDITIONS

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

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

B.2 Permit Term [326 IAC 2-7-5(2)] [326 IAC 2-1.1-9.5]

-
- (a) This permit, T065-22334-00035 is issued for a fixed term of five (5) years from the issuance date of this permit, as determined in accordance with IC 4-21.5-3-5(f) and IC 13-15-5-3. Subsequent revisions, modifications, or amendments of this permit do not affect the expiration date of this permit.
- (b) If IDEM, OAQ, upon receiving a timely and complete renewal permit application, fails to issue or deny the permit renewal prior to the expiration date of this permit, this existing permit shall not expire and all terms and conditions shall continue in effect, including any permit shield provided in 326 IAC 2-7-15, until the renewal permit has been issued or denied.

B.3 Terms 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 remaining effect until:

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

B.4 Enforceability [326 IAC 2-7-7]

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

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

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

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

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

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

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

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

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

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

- (a) The Permittee shall annually submit a compliance certification report which addresses the status of the source's compliance with the terms and conditions contained in this permit, including emission limitations, standards, or work practices. All certifications shall cover the time period from January 1 to December 31 of the previous year, and shall be submitted no later than April 15 of each year to:

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

and

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

- (a) Pursuant to 326 IAC 2-7-15, the Permittee has been granted a permit shield. The permit shield provides that compliance with the conditions of this permit shall be deemed compliance with any applicable requirements as of the date of permit issuance, provided that either the applicable requirements are included and specifically identified in this

permit or the permit contains an explicit determination or concise summary of a determination that other specifically identified requirements are not applicable. The Indiana statutes from IC 13 and rules from 326 IAC, referenced in conditions in this permit, are those applicable at the time the permit was issued. The issuance or possession of this permit shall not alone constitute a defense against an alleged violation of any law, regulation or standard, except for the requirement to obtain a Part 70 permit under 326 IAC 2-7 or for applicable requirements for which a permit shield has been granted.

This permit shield does not extend to applicable requirements which are promulgated after the date of issuance of this permit unless this permit has been modified to reflect such new requirements.

- (b) If, after issuance of this permit, it is determined that the permit is in nonconformance with an applicable requirement that applied to the source on the date of permit issuance, IDEM, OAQ, shall immediately take steps to reopen and revise this permit and issue a compliance order to the Permittee to ensure expeditious compliance with the applicable requirement until the permit is reissued. The permit shield shall continue in effect so long as the Permittee is in compliance with the compliance order.
- (c) No permit shield shall apply to any permit term or condition that is determined after issuance of this permit to have been based on erroneous information supplied in the permit application. Erroneous information means information that the Permittee knew to be false, or in the exercise of reasonable care should have been known to be false, at the time the information was submitted.
- (d) Nothing in 326 IAC 2-7-15 or in this permit shall alter or affect the following:
 - (1) The provisions of Section 303 of the Clean Air Act (emergency orders), including the authority of the U.S. EPA under Section 303 of the Clean Air Act;
 - (2) The liability of the Permittee for any violation of applicable requirements prior to or at the time of this permit's issuance;
 - (3) The applicable requirements of the acid rain program, consistent with Section 408(a) of the Clean Air Act; and
 - (4) The ability of U.S. EPA to obtain information from the Permittee under Section 114 of the Clean Air Act.
- (e) This permit shield is not applicable to any change made under 326 IAC 2-7-20(b)(2) (Sections 502(b)(10) of the Clean Air Act changes) and 326 IAC 2-7-20(c)(2) (trading based on State Implementation Plan (SIP) provisions).
- (f) This permit shield is not applicable to modifications eligible for group processing until after IDEM, OAQ, has issued the modifications. [326 IAC 2-7-12(c)(7)]
- (g) This permit shield is not applicable to minor Part 70 permit modifications until after IDEM, OAQ, has issued the modification. [326 IAC 2-7-12(b)(8)]

B.13 Prior Permits Superseded [326 IAC 2-1.1-9.5]

- (a) All terms and conditions of permits established prior to T065-22334-00035 and issued pursuant to permitting programs approved into the state implementation plan have been either;
 - (1) incorporated as originally stated,

- (2) revised under 326 IAC 2-7-10.5, or
- (3) deleted under 326 IAC 2-7-10.5.

(b) Provided that all terms and conditions are accurately reflected in this permit, all previous registrations and permits are superseded by this Part 70 operating permit.

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

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

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

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

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

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

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

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

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

(a) This permit may be modified, reopened, revoked and reissued, or terminated for cause. The filing of a request by the Permittee for a Part 70 permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any condition of this permit. [326 IAC 2-7-5(6)(C)] The notification by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

(b) This permit shall be reopened and revised under any of the circumstances listed in IC 13-15-7-2 or if IDEM, OAQ, determines any of the following:

- (1) That this permit contains a material mistake.
- (2) That inaccurate statements were made in establishing the emissions standards or other terms or conditions.
- (3) That this permit must be revised or revoked to assure compliance with an applicable requirement. [326 IAC 2-7-9(a)(3)]

(c) Proceedings by IDEM, OAQ, to reopen and revise this permit shall follow the same procedures as apply to initial permit issuance and shall affect only those parts of this

permit for which cause to reopen exists. Such reopening and revision shall be made as expeditiously as practicable. [326 IAC 2-7-9(b)]

- (d) The reopening and revision of this permit, under 326 IAC 2-7-9(a), shall not be initiated before notice of such intent is provided to the Permittee by IDEM, OAQ, at least thirty (30) days in advance of the date this permit is to be reopened, except that IDEM, OAQ, may provide a shorter time period in the case of an emergency. [326 IAC 2-7-9(c)]

B.17 Permit Renewal [326 IAC 2-7-3] [326 IAC 2-7-4]

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

Request for renewal shall be submitted to:

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

- (b) Timely Submittal of Permit Renewal [326 IAC 2-7-4(a)(1)(D)]

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

(A) Submitted at least nine (9) months prior to the date of the expiration of this permit; and

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

(2) If IDEM, OAQ, upon receiving a timely and complete permit application, fails to issue or deny the permit renewal prior to the expiration date of this permit, this existing permit shall not expire and all terms and conditions shall continue in effect, including any permit shield provided in 326 IAC 2-7-15, until the renewal permit has been issued or denied.

- (c) Right to Operate After Application for Renewal [326 IAC 2-7-3]

If the Permittee submits a timely and complete application for renewal of this permit, the source's failure to have a permit is not a violation of 326 IAC 2-7 until IDEM, OAQ, takes final action on the renewal application, except that this protection shall cease to apply if, subsequent to the completeness determination, the Permittee fails to submit by the deadline specified in writing by IDEM, OAQ, any additional information identified as being needed to process the application.

- (d) United States Environmental Protection Agency Authority [326 IAC 2-7-8(e)]

If IDEM, OAQ, fails to act in a timely way on a Part 70 permit renewal, the U.S. EPA may invoke its authority under Section 505(e) of the Clean Air Act to terminate or revoke and reissue a Part 70 permit.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

(4) The Permittee notifies the:

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

and

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

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

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

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

- (b) The Permittee may make Section 502(b)(10) of the Clean Air Act changes (this term is defined at 326 IAC 2-7-1(36)) without a permit revision, subject to the constraint of 326 IAC 2-7-20(a). For each such Section 502(b)(10) of the Clean Air Act change, the required written notification shall include the following:
 - (1) A brief description of the change within the source;
 - (2) The date on which the change will occur;
 - (3) Any change in emissions; and
 - (4) Any permit term or condition that is no longer applicable as a result of the change.

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

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

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

A modification, construction, or reconstruction is governed by the requirements of 326 IAC 2 and 326 IAC 2-7-10.5.

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

Upon presentation of proper identification cards, credentials, and other documents as may be required by law, and subject to the Permittee's right under all applicable laws and regulations to assert that the information collected by the agency is confidential and entitled to be treated as

such, the Permittee shall allow IDEM, OAQ, U.S. EPA, or an authorized representative to perform the following:

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

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

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

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

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

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

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

- (a) The Permittee shall pay annual fees to IDEM, OAQ, within thirty (30) calendar days of receipt of a billing. Pursuant to 326 IAC 2-7-19(b), if the Permittee does not receive a bill from IDEM, OAQ, the applicable fee is due April 1 of each year.
- (b) Except as provided in 326 IAC 2-7-19(e), failure to pay may result in administrative enforcement action or revocation of this permit.
- (c) The Permittee may call the following telephone numbers: 1-800-451-6027 or 317-233-4230 (ask for OAQ, Billing, Licensing, and Training Section), to determine the appropriate permit fee.

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

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

SECTION C

SOURCE OPERATION CONDITIONS

Entire Source

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

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

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

C.2 Opacity [326 IAC 5-1]

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

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

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

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

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

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

C.5 Fugitive Dust Emissions [326 IAC 6-4]

The Permittee shall not allow fugitive dust to escape beyond the property line or boundaries of the property, right-of-way, or easement on which the source is located, in a manner that would violate 326 IAC 6-4 (Fugitive Dust Emissions). 326 IAC 6-4-2(4) is not federally enforceable.

C.6 Asbestos Abatement Projects [326 IAC 14-10] [326 IAC 18] [40 CFR 61, Subpart M]

- (a) Notification requirements apply to each owner or operator. If the combined amount of regulated asbestos containing material (RACM) to be stripped, removed or disturbed is at least 260 linear feet on pipes or 160 square feet on other facility components, or at least thirty-five (35) cubic feet on all facility components, then the notification requirements of 326 IAC 14-10-3 are mandatory. All demolition projects require notification whether or not asbestos is present.
- (b) The Permittee shall ensure that a written notification is sent on a form provided by the Commissioner at least ten (10) working days before asbestos stripping or removal work or before demolition begins, per 326 IAC 14-10-3, and shall update such notice as necessary, including, but not limited to the following:

- (1) When the amount of affected asbestos containing material increases or decreases by at least twenty percent (20%); or
- (2) If there is a change in the following:
 - (A) Asbestos removal or demolition start date;
 - (B) Removal or demolition contractor; or
 - (C) Waste disposal site.
- (c) The Permittee shall ensure that the notice is postmarked or delivered according to the guidelines set forth in 326 IAC 14-10-3(2).
- (d) The notice to be submitted shall include the information enumerated in 326 IAC 14-10-3(3).

All required notifications shall be submitted to:

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

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

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

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

C.7 Performance Testing [326 IAC 3-6]

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

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

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

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

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

Compliance Requirements [326 IAC 2-1.1-11]

C.8 Compliance Requirements [326 IAC 2-1.1-11]

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

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

C.9 Compliance Monitoring [326 IAC 2-7-5(3)] [326 IAC 2-7-6(1)]

Unless otherwise specified in this permit, all monitoring and record keeping requirements not already legally required shall be implemented and maintained upon permit issuance. If required by Section D, the Permittee shall be responsible for installing any necessary equipment and initiating any required monitoring related to that equipment. If due to circumstances beyond its control, that equipment cannot be operated upon issuance, the Permittee may extend the compliance schedule related to the equipment for an additional thirty (30) days provided the Permittee notifies:

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

in writing, prior to the end of the initial thirty (30) day compliance schedule, with full justification of the reasons for the inability to meet this date.

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

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

C.10 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.11 Instrument Specifications [326 IAC 2-1.1-11] [326 IAC 2-7-5(3)][326 IAC 2-7-6(1)]

- (a) When required by any condition of this permit, an analog instrument used to measure a parameter related to the operation of an air pollution control device shall have a scale such that the expected maximum reading shall be no less than twenty percent (20%) of full scale.
- (b) The Permittee may request that the IDEM, OAQ approve the use of an instrument that does not meet the above specifications provided the Permittee can demonstrate that an alternative instrument specification will adequately ensure compliance with permit conditions requiring the measurement of the parameters.

Corrective Actions and Response Steps [326 IAC 2-7-5] [326 IAC 2-7-6]

C.12 Risk Management Plan [326 IAC 2-7-5(12)] [40 CFR 68]

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

C.13 Response to Excursions and Exceedances [326 IAC 2-7-5] [326 IAC 2-7-6]

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

- (2) review of operation and maintenance procedures and records;
- (3) inspection of the control device, associated capture system, and the process.
- (d) Failure to take reasonable response steps shall be considered a deviation from the permit.
- (e) The Permittee shall maintain the following records:
 - (1) monitoring data;
 - (2) monitor performance data, if applicable; and
 - (3) corrective actions taken.

C.14 Actions Related to Noncompliance Demonstrated by a Stack Test [326 IAC 2-7-5] [326 IAC 2-7-6]

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

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

C.15 Emission Statement [326 IAC 2-7-5(3)(C)(iii)][326 IAC 2-7-5(7)][326 IAC 2-7-19(c)][326 IAC 2-6]

- (a) Pursuant to 326 IAC 2-6-3(b)(2), starting in 2005 and every three (3) years thereafter, the Permittee shall submit by July 1 an emission statement covering the previous calendar year. The emission statement shall contain, at a minimum, the information specified in 326 IAC 2-6-4(c) and shall meet the following requirements:
 - (1) Indicate estimated actual emissions of all pollutants listed in 326 IAC 2-6-4(a);
 - (2) Indicate estimated actual emissions of regulated pollutants as defined by 326 IAC 2-7-1 (32) ("Regulated pollutant, which is used only for purposes of Section 19 of this rule") from the source, for purpose of fee assessment.

The statement must be submitted to:

Indiana Department of Environmental Management
Technical Support and Modeling Section, Office of Air Quality
100 North Senate Avenue
Indianapolis, Indiana 46204-2251

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

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

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

- (a) Records of all required monitoring data, reports and support information required by this permit shall be retained for a period of at least five (5) years from the date of monitoring sample, measurement, report, or application. 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 2-7-5(3)(C)] [326 IAC 2-1.1-11]

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

Indiana Department of Environmental Management
Compliance Data Section, Office of Air Quality
100 North Senate Avenue
Indianapolis, Indiana 46204-2251
- (c) Unless otherwise specified in this permit, any notice, report, or other submission required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ, on or before the date it is due.
- (d) Unless otherwise specified in this permit, all reports required in Section D of this permit shall be submitted within thirty (30) days of the end of the reporting period. All reports do require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).
- (e) Reporting periods are based on calendar years, unless otherwise specified in this permit. For the purpose of this permit "calendar year" means the twelve (12) month period from January 1 to December 31 inclusive.

Stratospheric Ozone Protection

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

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

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

SECTION D.1

FACILITY OPERATION CONDITIONS

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

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, 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.

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

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

D.1.1 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 and its control units, except when otherwise specified in 40 CFR 60, Subpart Ce and 40 CFR 60, Subpart 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 (HCl) emissions shall not exceed 100 parts per million by volume, or a 93% reduction;
- (5) Sulfur dioxide (SO₂) emissions shall not exceed 55 parts per million by volume;
- (6) Nitrogen oxide (NO_x) 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 Incinerators [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 malfunction;
 - (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, 6 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) Responses 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 address 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.

Compliance Determination Requirements

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 HCl 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 HCl), 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 HCl 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 HCl), the Permittee may forego a performance test for that pollutant for an additional two (2) years. If any performance test indicates 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 I-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 I-1 were conducted October 27, 2003, May 5, 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 (HCl) from Stack I-1 were conducted May 2, 2001, June 24, 2002, and April 22, 2003. All three tests were within compliance limits. Therefore, the next HCl 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.

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

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' specifications), maintain, and operate 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 operating 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.

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

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 HCl 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;
 - (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 exceedances, 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.

SECTION D.2

FACILITY OPERATION CONDITIONS

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

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, and both exhausting to stack B-1. The No. 2 distillate fuel used in each boiler has a maximum sulfur content of 0.1%.

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

Emission Limitations and Standards [326 IAC 2-7-5(11)]

D.2.1 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 shall be limited to 0.8 pound per MMBtu heat input.

D.2.2 Sulfur Dioxide (SO₂) [326 IAC 7-1.1-1]

Any change in the sulfur content of the fuels used that causes an increase in SO₂ emissions at either of the two (2) boilers to 25 tons per year or more shall cause the facility to become subject to 326 IAC 7-1.1 (SO₂ Emissions Limitations). Any increase in the sulfur content of the No. 2 distillate fuel to more than 0.46 percent will cause the boiler to have a potential to emit of 25 tons per year and will require prior IDEM, OAQ, approval.

D.2.3 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 and its control device.

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

D.2.4 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 and exhausting to atmosphere. A trained employee shall record whether emissions are normal or abnormal.
- (b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.
- (c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.
- (d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.
- (e) If abnormal emissions are observed, the Permittee shall take reasonable response steps in accordance with Section C – Response to Excursions or Exceedances. Failure to take response steps in accordance with Section C – Response to Excursions or Exceedances shall be considered a deviation from this permit.

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

D.2.5 Record Keeping Requirements

- (a) To document compliance with Condition D.2.1, and D.2.2, 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 retain records of all recording/monitoring data and support information for a period of five (5) years, or longer if specified elsewhere in this permit, from the date of the monitoring sample, measurement, or report. Support information includes all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by this permit.

- (b) To document compliance with Condition D.2.4, 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.
- (c) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

D.2.6 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) month 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).

SECTION D.3

FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-7-1(21)]: Insignificant Activities

- (a) Natural gas-fired combustion sources with heat input equal to or less than ten million (10,000,000) British thermal units per hour, including one (1) boiler, identified as B-3, with a maximum capacity of 0.6 million British thermal units per hour, constructed in 1997.
- (b) Emergency diesel generators not exceeding 1,600 horsepower, including:
 - (1) One (1) generator for emergency power and peak shaving, rated at 1,012 horsepower (755 kilowatts)
 - (2) One (1) generator for emergency power and peak shaving, rated at 1,135 horsepower (750 kilowatts).
- (c) One (1) underground diesel storage tank, 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.
- (d) 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 xylene are used each year in laboratory and maintenance activities.
- (e) 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 38EC (100EF) 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 20EC (68EF); the use of which for all cleaners and solvents combined does not exceed 145 gallons per 12 months.
- (f) Closed loop heating and cooling systems.
- (g) Heat exchanger cleaning and repair.
- (h) Paved and unpaved roads and parking lots with public access.
- (i) Purging of gas lines and vessels that is related to routine maintenance and repair of buildings, structures, or vehicles at the source where air emissions from those activities would not be associated with any production process.
- (j) Equipment used to collect any material that might be released during a malfunction, process upset, or spill cleanup, including catch tanks, temporary liquid separators, tanks, and fluid handling equipment.
- (k) Blowdown for any of the following: sight glass; boiler; compressors; pumps; and cooling tower.
- (l) Vents from ash transport systems not operated at positive pressure.
- (m) A laboratory as defined in 326 IAC 2-7-1(21)(D).
- (n) 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.

(o) One (1) underground diesel storage tank, constructed in 1971, capacity: 30,000 gallons.

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

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

D.3.1 Particulate 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 0.47 pound per million British thermal units. This limitation was computed using the following equation:

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

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 (25.8 million British thermal units per hour). 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

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

D.3.2 Record Keeping Requirements

(a) Pursuant to MSM 065-11880-00035, issued on March 29, 2000, and to document compliance with Condition D.3.1, the Permittee shall maintain records of the following:

(1) Records of the annual fuel usage of each emergency generator.

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

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT OFFICE OF AIR QUALITY

PART 70 OPERATING PERMIT CERTIFICATION

Source Name: Henry County Memorial Hospital
Source Address: 1000 North 16th Street, New Castle, Indiana 47362
Mailing Address: P.O. Box 490, 1000 North 16th Street, New Castle, Indiana 47362
Part 70 Permit No.: T065-22334-00035

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

Please check what document is being certified:

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

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

Signature:

Printed Name:

Title/Position:

Phone:

Date:

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

**COMPLIANCE BRANCH
100 North Senate Avenue
Indianapolis, Indiana 46204-2251
Phone: 317-233-0178
Fax: 317-233-6865**

**PART 70 OPERATING PERMIT
EMERGENCY OCCURRENCE REPORT**

Source Name: Henry County Memorial Hospital
Source Address: 1000 North 16th Street, New Castle, Indiana 47362
Mailing Address: P.O. Box 490, 1000 North 16th Street, New Castle, Indiana 47362
Part 70 Permit No.: T065-22334-00035

This form consists of 2 pages

Page 1 of 2

- | |
|---|
| <p><input type="checkbox"/> This is an emergency as defined in 326 IAC 2-7-1(12)</p> <ul style="list-style-type: none"><input type="checkbox"/> The Permittee must notify the Office of Air Quality (OAQ), within four (4) business hours (1-800-451-6027 or 317-233-0178, ask for Compliance Section); and<input type="checkbox"/> The Permittee must submit notice in writing or by facsimile within two (2) working days (Facsimile Number: 317-233-6865), and follow the other requirements of 326 IAC 2-7-16. |
|---|

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

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

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

Page 2 of 2

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

Form Completed by:

Title / Position:

Date:

Phone:

A certification is not required for this report.

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

**PART 70 OPERATING PERMIT
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: P.O. Box 490, 1000 North 16th Street, New Castle, Indiana 47362
Part 70 Permit No.: T065-22334-00035

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

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

A certification by the responsible official as defined by 326 IAC 2-7-1(34) is required for this report.

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

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

Source Name: Henry County Memorial Hospital
 Source Address: 1000 North 16th Street, New Castle, Indiana 47362
 Mailing Address: P.O. Box 490, 1000 North 16th Street, New Castle, Indiana 47362
 Part 70 Permit No.: T065-22334-00035

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

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

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

Form Completed By:

Title/Position:

Date:

Phone:

Attach a signed certification to complete this report.

Indiana Department of Environmental Management Office of Air Quality

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

Source Background and Description

Source Name:	Henry County Memorial Hospital
Source Location:	1000 North 16th Street, New Castle, Indiana 47362
County:	Henry
SIC Code:	8062
Operation Permit No.:	T065-11979-00035
Operation Permit Issuance Date:	September 14, 2001
Permit Renewal No.:	T065-22334-00035
Date:	March 17, 2006
Permit Reviewer:	AKY/MLE

The Office of Air Quality (OAQ) has reviewed a renewal Part 70 permit renewal application from Henry County Memorial Hospital relating to the operation of a medical waste incinerator at a medical hospital.

Permitted Emission Units and Pollution Control Equipment

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

- (a) 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, 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.
- (b) 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, and both exhausting to stack B-1. The No. 2 distillate fuel used in each boiler has a maximum sulfur content of 0.1%.

Unpermitted Emission Units and Pollution Control Equipment

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

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

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

Insignificant Activities

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

- (a) Natural gas-fired combustion sources with heat input equal to or less than ten million (10,000,000) British thermal units per hour, including:
 - (1) One (1) boiler, identified as B-3, constructed in 1997, capacity: 0.6 million British

thermal units per hour.

- (b) Emergency diesel generators not exceeding 1,600 horsepower, including:
 - (1) One (1) generator for emergency power and peak shaving, rated at 1,012 horsepower (755 kilowatts), and
 - (2) One (1) generator for emergency power and peak shaving, rated at 1,135 horsepower (750 kilowatts).
- (c) One (1) underground diesel storage tank, 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.
- (d) 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 and maintenance activities.
- (e) 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 38EC (100EF) 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 20EC (68EF); the use of which for all cleaners and solvents combined does not exceed 145 gallons per 12 months.
- (f) Closed loop heating and cooling systems.
- (g) Heat exchanger cleaning and repair.
- (h) Paved and unpaved roads and parking lots with public access.
- (i) Purging of gas lines and vessels that is related to routine maintenance and repair of buildings, structures, or vehicles at the source where air emissions from those activities would not be associated with any production process.
- (j) Equipment used to collect any material that might be released during a malfunction, process upset, or spill cleanup, including catch tanks, temporary liquid separators, tanks, and fluid handling equipment.
- (k) Blowdown for any of the following: sight glass; boiler; compressors; pumps; and cooling tower.
- (l) Vents from ash transport systems not operated at positive pressure.
- (m) A laboratory as defined in 326 IAC 2-7-1(21)(D).
- (n) 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.
- (o) One (1) underground diesel storage tank, constructed in 1971, capacity: 30,000 gallons.

Existing Approvals

The source has been operating under previous approvals including, but not limited to, the following:

- (a) AA 065-20628-00035, issued on October 27, 2005
- (b) T 065-11979-00035, issued on September 14, 2001
- (c) MSM 065-11880-00035, issued on March 29, 2000

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

Enforcement Issue

There are no enforcement actions pending.

Recommendation

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

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

An administratively complete Part 70 permit application for the purposes of this review was received on December 6, 2005.

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

Emission Calculations

See Appendix A of this document for detailed emissions calculations (pages 1 through 5 of 5). All emissions and emissions calculations were taken from the original Part 70 operating permit T065-11979-00035.

Potential to Emit of the Source

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

The source was issued a Part 70 Operating Permit on September 14, 2001. The table below summarizes the potential to emit, reflecting all limits, of the emission units. Any control equipment is considered enforceable only after issuance of the original Part 70 operating Permit and only to the extent that the effect of the control equipment is made practically enforceable in the permit.

This table reflects the PTE before controls. Control equipment is not considered federally enforceable until it has been required in a federally enforceable permit.

Potential to Emit (tons/year)						
	PM	PM ₁₀	SO ₂	VOC	CO	NO _x
One (1) medical waste incinerator	4.60	4.60	2.14	0.295	2.91	3.51
Two (2) boilers	1.58	1.58	11.2	0.608	9.28	15.8
Insignificant Activities	2.00	2.00	5.00	5.00	5.00	5.00
Total Potential Emissions	8.18	8.18	16.4	5.90	17.2	24.3

Note: For the purpose of determining Title V applicability for particulates, PM₁₀, not PM, is the regulated pollutant in consideration.

HAPs	Potential To Emit (tons/year)
Lead	0.072
Hydrogen Chloride	33.0
Antimony	0.013
Arsenic	0.0007
Beryllium	0.0003
Cadmium	0.006
Chlorinated Dibenzo-P-Dioxin	0.00002
Chlorinated Dibenzofuran	0.00007
Chlorine	0.103
Chromium	0.001
Manganese	0.001
Mercury	0.105
Nickel	0.0009
Polychlorinated Biphenyls	0.00005
Benzene	0.0002
Dichlorobenzene	0.0001
Formaldehyde	0.008
Hexane	0.199
Toluene	0.0004
Selenium	0.002
Xylenes	0.200
TOTAL	33.9

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

Therefore, the source is subject to the provisions of 326 IAC 2-7. Therefore, the source is subject to the provisions of 326 IAC 2-7.

- (b) Pursuant to 326 IAC 11-6-3, Medical Waste Incinerators: Permits, facilities subject to 326 IAC 11-6 shall submit an application for a Part 70 permit, in accordance with 326 IAC 2-7-4, to the department no later than March 11, 2000. Therefore, although the potential to emit HAPs after the incinerator is retrofit with a scrubber is less than major source levels, a Part 70 Operating Permit is required for this source because it is subject to the requirements of 326 IAC 11-6, Hospital/Medical/Infectious Waste Incinerators.
- (c) The potentials to emit in these tables represent the potentials to emit before compliance with 40 CFR 60, Subpart Ce.

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 significant emission units after controls. The control equipment is considered federally enforceable after issuance the original Part 70 Operating Permit.

Limited Potential to Emit (tons/year)							
	PM	PM ₁₀	SO ₂	VOC	CO	NOx	HAPs
One (1) medical waste incinerator	0.690	0.690	0.214	0.295	2.91	3.51	1.81
Two (2) boilers	1.58	1.58	11.2	0.608	9.28	15.8	0.208
Insignificant Activities	2.00	2.00	5.00	5.00	5.00	5.00	2.00
Total Emissions	4.27	4.27	16.4	5.90	17.2	24.3	4.02

These emissions represent the potential to emit after controls after the wet scrubber is installed and operational. These potentials to emit represent the potentials to emit after compliance with 40 CFR Part 60, Subpart Ce.

County Attainment Status

The source is located in Henry County.

Pollutant	Status
PM ₁₀	Attainment
PM _{2.5}	Attainment
SO ₂	Attainment
NO _x	Attainment
8-Hour Ozone	Attainment
1-Hour Ozone	Attainment
CO	Attainment
Lead	Attainment

- (a) 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 PM₁₀ emissions as surrogate for PM_{2.5} emissions. See the State Rule Applicability – Entire Source section.
- (b) Volatile organic compounds (VOC) and Nitrogen Oxides (NO_x) are regulated under the Clean Air Act (CAA) for the purposes of attaining and maintaining the National Ambient Air Quality Standards (NAAQS) for ozone. Therefore, VOC and NO_x emissions are considered when evaluating the rule applicability relating to ozone. Henry County has been designated as attainment or unclassifiable for ozone. Therefore, VOC emissions and NO_x were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2. See the State Rule Applicability for the source section.
- (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. See the State Rule Applicability for the source section.
- (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.

Part 70 Permit Conditions

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

- (a) Emission limitations and standards, including those operational requirements and limitations that assure compliance with all applicable requirements at the time of issuance of Part 70 permits.
- (b) Monitoring and related record keeping requirements which assume that all reasonable information is provided to evaluate continuous compliance with the applicable requirements.

Federal Rule Applicability

40 CFR 60, Subpart Ce (Emission Guidelines and Compliance Times for Hospital/Medical/ Infectious Waste Incinerators)

The medical waste incinerator, constructed prior to June 20, 1996, is subject to the New Source Performance Standard under 40 CFR 60, Subpart Ce. Pursuant to 40 CFR 60, Subpart Ce, the medical waste incinerator must comply with a state plan with requirements at least as protective as those in 40 CFR 60, Subpart Ce. Therefore, compliance with the requirements of 326 IAC 11-6 will also satisfy the requirements of 40 CFR 60, Subpart Ce. The requirements of 40 CFR 60, Subpart Ce, and 326 IAC 11-6 are specified in the State Rule Applicability Section of this document.

The provisions of 40 CFR Part 60 Subpart A - General Provisions, which are incorporated as 326 IAC 20-1-1, apply to the facility described in this section except when otherwise specified in 40 CFR Part 60 Subpart Ce.

40 CFR 60, Subpart D (Standards for Performance for Industrial-Commercial-Institutional Steam Generating Units)

The two (2) natural-gas or distillate fuel-oil fired 12.6 MMBtu/hr boilers 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.

The two (2) natural-gas or distillate fuel-oil fired 12.6 MMBtu/hr boilers are not subject to 40 CFR 60, Subparts Da, Db and Dc because the boilers were constructed prior to September 18, 1978.

40 CFR 60, Subpart Ec (Standards of Performance for Hospital/Medical/Infectious Waste Incinerators for Which Construction Is Commenced After June 20, 1996)

The medical waste incinerator at this location was constructed in June 1989, and therefore is not subject to the applicability of this 40 CFR 60, Subpart Ec. However, 326 IAC 11-6 and 40 CFR 60, Subpart Ce both refer to Subpart Ec in various subsections. Throughout the permit, where 40 CFR 60, Subpart Ec is used, the rule(s) that reference to Subpart Ec is also listed.

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.)

The one (1) insignificant underground storage tank, 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) insignificant underground storage tank, 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.

40 CFR 63 (National Emission Standards for Hazardous Air Pollutants)

The ethylene oxide sterilization operation is not subject to the requirements of the National Emission Standards for Hazardous Air Pollutants (NESHAPs), Part 63, Subpart O (Ethylene Oxide Emission Standards for Sterilization Facilities), because, 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.

There are no halogenated solvents used in the degreasing operations. Therefore, this source is

not subject to the requirements of 40 CFR 63, Subpart T (National Emission Standards for Halogenated Solvent Cleaning).

No other National Emission Standards for Hazardous Air Pollutants (NESHAPs) under 326 IAC 14, 326 IAC 20, 40 CFR 61, or 40 CFR 63 are included in this permit for this source.

40 CFR 64 (Compliance Assurance Monitoring)

This source does not involve a pollutant-specific emissions 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 64 are not applicable.

State Rule Applicability – Entire Source

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.

326 IAC 2-6 (Emission Reporting)

This source is subject to 326 IAC 2-6 (Emission Reporting) because it is required to have a Part 70 operating permit. In accordance with the compliance schedule in 326 IAC 2-6-3, an emission statement must be submitted by July 1 beginning in 2005 and every 3 years after. The emission statement shall contain, at a minimum, the information specified in 326 IAC 2-6-4.

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.

State Rule Applicability – Individual Facilities

326 IAC 4-2-2 (Incinerators)

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

- (a) Consist of primary and secondary chambers or the equivalent;
- (b) Be equipped with a primary burner unless burning wood products;
- (c) Comply with 326 IAC 5-1 (Opacity limitations) and 326 IAC 2 (Permit Review Rules);
- (d) Be maintained as specified by the manufacturer and approved by IDEM;
- (e) Be operated according to the manufacturer-s recommendation and only burn waste approved by IDEM;

- (f) Comply with other state and/or local rules or ordinances regarding installation and operation of incinerators;
- (g) 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;
- (h) Not create a nuisance or a fire hazard; and
- (i) 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.

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:

- (a) Procedures for receiving, handling, and charging waste;
- (b) Procedures for incinerator startup and shutdown;
- (c) Procedures for responding to a malfunction;
- (d) Procedures for maintaining proper combustion air supply levels;
- (e) Procedures for operating the incinerator and associated air pollution control systems;
- (f) Procedures for handling ash; and
- (g) A list of wastes that can be burned in the incinerator.

The operation and maintenance plan must be readily accessible to incinerator operators. The Permittee shall make the manufacturer's specifications or the operation and maintenance plan available to IDEM, OAQ, upon request.

The incinerator has a maximum exhaust rate of 0.016 pounds of PM per 1,000 pounds of dry exhaust gas, corrected to fifty percent (50%) excess air. Therefore, the incinerator is in compliance with this rule.

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:

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

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 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:

$$1.58 \text{ ton/yr} \times (2000 \text{ lbs/ton} / 8760 \text{ hrs/yr}) = 0.360 \text{ lb/hr}$$
$$(0.360 \text{ lb/hr} / 25.2 \text{ MMBtu/hr}) = 0.014 \text{ lb PM per MMBtu}$$

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) insignificant 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) insignificant boiler 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.

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

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

$0.6 \text{ MMBTU/hr} \times 1 \text{ mmcf} / 1,000 \text{ MMBtu} = 0.0006 \text{ Mmcf/hr}$
 $1.9 \text{ lb PM/ Mmcf} \times 0.0006 \text{ Mmcf/hr} = 0.001 \text{ lbs PM/hr}$
 $0.001 \text{ lbs PM/hr} / 0.6 \text{ MMBtu/hr} = 0.002 \text{ lbs PM/MMBtu}$

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

326 IAC 7 (Sulfur Dioxide Emission Limitations)

The requirements of 326 IAC 7-1.1 are not applicable to the two (2) boilers because the potential to emit SO₂ from each boiler is less than 10 pounds per hour and 25 tons per year. Compliance with these limits are met by the requirement to limit the sulfur content of the No. 2 distillate fuel to one-tenth percent (0.1%). Any change in the sulfur content of the fuels used that causes an increase in SO₂ emissions at either of the two (2) boilers to 25 tons per year or more shall cause the facility to become subject to 326 IAC 7-1.1 (SO₂ Emissions Limitations). Any increase in the sulfur content of the No. 2 distillate fuel to more than 0.46 percent will cause the boiler to have a potential to emit of 25 tons per year and will require prior IDEM, OAQ, approval.

326 IAC 9-1-2 (Carbon monoxide emission limits)

Pursuant to 326 IAC 9-1-2, the Permittee shall not cause or allow the discharge of carbon monoxide from refuse incineration or burning equipment, unless the waste gas stream is burned in a direct- flame afterburner or is controlled by other means approved by the commissioner.

The source uses a direct-flame natural gas-fired afterburner. Therefore, the source is in compliance with this rule.

326 IAC 11-6 (Hospital/Medical/Infectious Waste Incinerators)

- (a) The medical waste incinerator is subject to the requirements of 326 IAC 11-6, 40 CFR 60, Subpart Ce, and 40 CFR 60, Subpart Ec.
- (b) Pursuant to 326 IAC 11-6-4 and 40 CFR 60, Subpart Ce, the medium-sized medical waste incinerator, with a maximum design waste burning capacity between 200 pounds per hour and 500 pounds per hour, shall comply with the following emission limits and requirements:
 - (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 (HCl) emissions shall not exceed 100 parts per million by volume or a 93% reduction;
 - (5) Sulfur dioxide (SO₂) emissions shall not exceed 55 parts per million by volume;
 - (6) Nitrogen oxide (NO_x) emissions shall not exceed 250 parts per million by volume;

- (7) Lead emissions shall not exceed 0.52 grains per thousand dry standard cubic feet or a 70% reduction;
 - (8) Cadmium emissions shall not exceed 0.07 grains per thousand dry standard cubic feet or a 65% reduction;
 - (9) Mercury emissions shall not exceed 0.24 grains per thousand dry standard cubic feet or a 85% reduction; and
 - (10) Discharge into the atmosphere of any gases shall not exceed ten percent (10%) opacity.
- (c) Pursuant to 326 IAC 11-6-5 and 40 CFR 60, Subpart Ce, the medical waste incinerator shall not operate 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. The following documentation shall be maintained at the facility and reviewed annually:
- (1) Summary of the applicable standards;
 - (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;
 - (7) Procedures for responding to periodic malfunction or conditions that may lead to malfunction;
 - (8) Procedures for monitoring HMIWI emissions;
 - (9) Reporting and record keeping; and
 - (10) Procedures for handling ash.
- (d) Pursuant to 326 IAC 11-6-6, the Permittee shall prepare and submit a waste management plan as specified in 40 CFR 60.55c no later than sixty (60) days following the initial performance test.
- (1) The Waste Management Plan must 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.
 - (2) The Waste Management Plan may include, but is not limited to:
 - (A) materials such as paper, cardboard, plastics, glass, batteries, or metal recycling; or
 - (B) purchasing recycled or recycled products.
 - (3) The 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.

- (4) The Waste Management Plan should identify, where possible:
 - (A) reasonably available additional waste management measures;
 - (B) taking into account the effectiveness of waste management measures already in place;
 - (C) the cost of additional measures;
 - (D) the emission reductions expected to be achieved; and
 - (E) any other environmental or energy impacts they might have.
- (5) The American Hospital Association publication entitled "An Ounce of Prevention: Waste Reduction Strategies" shall be considered in the development of the Waste Management Plan.
- (6) Additional requirements:
 - (A) The Waste Management Plan shall address proper waste segregation.
 - (B) The Waste Management Plan shall address the management of such waste stream to assure that the Permittee is in compliance with local, state, and federal waste management rules.
 - (C) The Waste Management Plan shall address proper management of all mercury-containing items.
 - (D) The Waste Management Plan shall identify all items that could become mercury-containing wastes.
 - (E) The Permittee shall monitor its waste stream for mercury-containing waste, and shall maintain a list of common mercury-containing items. Common mercury-containing items include, but are not limited to:
 - (i) Thermometers (silver colored liquid inside)
 - (ii) Thermostats (nonelectronic)
 - (iii) Flourescent and other mercury vapor lighting (high intensity discharge - HID, metal halide, high pressure sodium and neon bulbs)
 - (iv) Gauges (barometers, manometers, blood pressure and vacuum gauges with silver colored liquid)
 - (v) Batteries (mercuric oxide and some alkaline batteries)
 - (vi) Paint (latex manufactures before 1990, and some oil-based paints; check the label)
 - (vii) Thimerosal or merbromine (in some antibacterial products)
 - (viii) Elemental mercury (from labs)
 - (ix) Esophageal dialators

- (x) Laboratory fixatives
- (F) The Permittee shall include plans to eliminate all mercury-containing items from the waste stream of the incinerator.
- (G) The Waste Management Plan shall address the training of all affected staff on proper waste management practices of mercury-containing items and other solid, hazardous and medical waste items.
- (H) The Permittee shall have Waste Management Plans for all facilities owned by the Permittee that send waste to this incinerator. Each Waste Management Plan shall comply with the requirements of this condition.

Testing Requirements

- (a) Pursuant to 326 IAC 11-6-7 and 40 CFR 60, Subpart Ec, the Permittee shall conduct compliance tests for opacity, PM, CO, and HCl on an annual basis, no later than twelve (12) months following the previous compliance test. Compliance shall be determined according to 326 IAC 3-6 concerning source sampling procedures and 40 CFR 60, Subpart Ec, Section 60.56c, excluding the fugitive emissions testing requirements under Section 60.56c(b)(12) and 60.56c(c)(3).
- (b) If all three performance tests over a 3-year period indicate compliance with the emission limit for a pollutant (PM, CO, or HCl), the Permittee may forego a performance test for that pollutant for the subsequent 2 years. At a minimum, a performance test for PM, CO, and HCl shall be conducted every third year (no more than 36 months following the previous performance test). If a performance test conducted every third year indicates compliance with the emission limit for a pollutant (PM, CO, or HCl), the Permittee may forego a performance test for that pollutant for an additional 2 years. If any performance test indicates noncompliance with the respective emission limit, a performance test for that pollutant shall be conducted annually until all annual performance tests over a 3-year period indicate compliance with the emission limit. The use of the bypass stack during a performance test shall invalidate the performance test.
- (c) Pursuant to 40 CFR 60.56c(c)(1), the Permittee shall determine compliance with the opacity limit by conducting an annual performance tests every twelve (12) months.
- (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 of the permit - Performance Testing.
- (d) The use of a Jerome Meter to detect mercury-containing waste is not required by this permit because the hospital is burning its own waste, and this source will address and monitor mercury-containing wastes as part of the Waste Management Plan required by 326 IAC 11-6.

The most recent performance tests for particulate matter (PM) from Stack I-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 May 2, 2006.

The most recent valid compliance tests for carbon monoxide (CO) from Stack I-1 were conducted October 27, 2003, May 5, 2004, and April 7, 2005. Therefore, the next compliance test for CO shall be performed no later than April 7, 2008.

The most recent performance tests for hydrogen chloride (HCl) from Stack I-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 May 2, 2006.

The most recent valid compliance test for opacity from Stack I-1 was conducted April 7, 2005. Therefore, the next compliance test for opacity shall be performed no later than April 7, 2006, and every twelve (12) months thereafter.

Compliance Requirements

Permits issued under 326 IAC 2-7 are required to ensure that sources can demonstrate compliance with applicable state and federal rules on a more or less continuous basis. All state and federal rules contain compliance provisions, however, these provisions do not always fulfill the requirement for a more or less continuous demonstration. When this occurs, IDEM, OAQ, in conjunction with the source, must develop specific conditions to satisfy 326 IAC 2-7-5. As a result, compliance requirements are divided into two sections: Compliance Determination Requirements and Compliance Monitoring Requirements.

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

The medical waste incinerator has applicable compliance monitoring conditions as specified below:

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

- (a) Calibrate (to manufacturers' specifications), maintain, and operate 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 operating 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.

These monitoring conditions are necessary because the wet scrubber must operate properly to ensure compliance with 40 CFR 60, Subpart Ce, 326 IAC 11-6 (Hospital/Medical/Infectious Waste Incinerators), and 326 IAC 2-7 (Part 70).

- (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 and exhausting to atmosphere. A trained employee shall record whether emissions as normal or abnormal.
- (b) For process operated continuously, "normal" means these conditions prevailing, or expected to prevail, eight 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, reading 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 Exceedances shall be considered a deviation from this permit.

Conclusion

The operation of the two (2) boilers and one (1) medical waste incinerator at a general medical hospital shall be subject to the conditions of this **Part 70 Permit No. T065-22334-00035**.

Appendix A: Emission Calculations
Controlled Air Medical Waste Incinerator

Company Name: Henry County Memorial Hospital
 Address City IN Zip: 1000 North 16th Street, New Castle, Indiana 47362
 Part 70: 065-22334
 Pit ID: 065-00035
 Reviewer: AKY/MLE
 Date: June 26, 2006

THROUGHPUT lbs/hr 450

THROUGHPUT
tons/yr
1971

Emission Factor in lb/ton	POLLUTANT								
	PM	SO2	CO	TOC	NOX	Lead**	HCl**	Aluminum	Antimony**
Potential Emissions in ton/yr	4.60	2.14	2.91	0.295	3.51	0.072	33.014	1.03E-02	1.26E-02
Control Efficiency	85.0%	90.0%	0.0%	0.0%	0.0%	70.0%	95.0%	0.0%	0.0%
Potential Emissions after control in ton/yr	0.690	0.214	2.91	0.295	3.51	2.15E-02	1.65	1.03E-02	1.26E-02

Emission Factor in lb/ton	POLLUTANT								
	Arsenic**	Barium	Beryllium**	Cadmium**	Total CDD**	Total CDF**	Chlorine**	Chromium**	Copper
Potential Emissions in ton/yr	2.38E-04	3.19E-03	6.16E-06	5.48E-03	2.10E-05	7.05E-05	1.03E-01	7.64E-04	1.23E-02
Control Efficiency	0.0%	0.0%	0.0%	65.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Potential Emissions after control in ton/yr	2.38E-04	3.19E-03	6.16E-06	1.89E-03	2.10E-05	7.05E-05	1.03E-01	7.64E-04	1.23E-02

Emission Factor in lb/ton	POLLUTANT								
	HBr	HF**	Iron	Manganese**	Mercury**	Nickel**	Total PCB**	Silver	Thallium
Potential Emissions in ton/yr	0.043	0.147	1.42E-02	5.59E-04	0.105	5.81E-04	4.58E-05	2.23E-04	1.08E-03
Control Efficiency	0.0%	95.0%	0.0%	0.0%	85.0%	0.0%	0.0%	0.0%	0.0%
Potential Emissions after control in ton/yr	4.27E-02	7.34E-03	1.42E-02	5.59E-04	1.58E-02	5.81E-04	4.58E-05	2.23E-04	1.08E-03

** Hazardous Air Pollutants listed in Clean Air Act

HCl Hydrogen Chloride
CDD Chlorinated Dibenzo-P-Dioxin
CDF Chlorinated Dibenzofuran
HBr Hydrogen Bromide
HF Hydrogen Flouride
PCB Polychlorinated Biphenyls

Methodology

Emission factors are from AP 42 (5th Edition 1/95) Tables 2.3-1 through 2.3-13, Emission Factors for Controlled Air Medical Waste Incinerators.
 Throughput (lb/hr) * 8760 hr/yr * ton/2000 lb = throughput (ton/yr)

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

**Company Name: Henry County Memorial Hospital
Address City IN Zip: 1000 North 16th Street, New Castle, Indiana 47362
Part 70: 065-22334
Plt ID: 065-00035
Reviewer: AKY/MLE
Date: June 26, 2006**

B-1 & B-2

Heat Input Capacity MMBtu/hr	Potential Throughput MMCF/yr
25.2	220.75

Emission Factor in lb/MMCF	Pollutant					
	PM*	PM10*	SO2	NOx	VOC	CO
	1.9	7.6	0.6	100.0 **see below	5.5	84.0
Potential Emission in tons/yr	0.210	0.839	0.066	11.04	0.607	9.27

*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

Note: Check the applicable rules and test methods for PM and PM10 when using the above emission factors to confirm that the correct factor is used (i.e., condensable included/not included).

See page 3 for HAPs emissions calculations.

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 IN Zip: 1000 North 16th Street, New Castle, Indiana 47362
Part 70: 065-22334
Plt ID: 065-00035
Reviewer: AKY/MLE
Date: June 26, 2006

B-1 & B-2

HAPs - Organics

Emission Factor in lb/MMcf	Benzene 2.1E-03	Dichlorobenzene 1.2E-03	Formaldehyde 7.5E-02	Hexane 1.8E+00	Toluene 3.4E-03
Potential Emission in tons/yr	2.32E-04	1.32E-04	8.28E-03	1.99E-01	3.75E-04

HAPs - Metals

Emission Factor in lb/MMcf	Lead 5.0E-04	Cadmium 1.1E-03	Chromium 1.4E-03	Manganese 3.8E-04	Nickel 2.1E-03
Potential Emission in tons/yr	5.52E-05	1.21E-04	1.55E-04	4.19E-05	2.32E-04

Methodology is the same as page 2.

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

Company Name: Henry County Memorial Hospital
Address City IN Zip: 1000 North 16th Street, New Castle, Indiana 47362
Part 70: 065-22334
Plt ID: 065-00035
Reviewer: AKY/MLE
Date: June 26, 2006

B-1 & B-2

Heat Input Capacity
MMBtu/hr

Potential Throughput
kgals/year

S = Weight % Sulfur

0.1

25.2

1576.8

Emission Factor in lb/kgal	Pollutant				
	PM*	SO2	NOx	VOC	CO
	2.0	14.2 (142.0S)	20.0	0.34	5.0
Potential Emission in tons/yr	1.577	11.20	15.77	0.268	3.94

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

See page 5 for HAPs emission calculations.

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

Company Name: Henry County Memorial Hospital
Address City IN Zip: 1000 North 16th Street, New Castle, Indiana 47362
Part 70: 065-22334
Plt ID: 065-00035
Reviewer: AKY/MLE
Date: June 26, 2006

B-1 & B-2

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

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