



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: September 27, 2006
RE: Good Samaritan Hospital / 083-18224-00027
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

**Good Samaritan Hospital
520 South Seventh Street
Vincennes, Indiana 47591**

(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.: T083-18224-00027	
Issued by: Origin signed by	Issuance Date: September 27, 2006
Nisha Sizemore, Chief Permits Branch Office of Air Quality	Expiration Date: September 27, 2011

TABLE OF CONTENTS

SECTION A	SOURCE SUMMARY	5
A.1	General Information [326 IAC 2-7-4(c)][326 IAC 2-7-5(15)][326 IAC 2-7-1(22)]	
A.2	Emission Units and Pollution Control Equipment Summary [326 IAC 2-7-4(c)(3)] [326 IAC 2-7-5(15)]	
A.3	Specifically Regulated Insignificant Activities [326 IAC 2-7-1(21)][326 IAC 2-7-4(c)] [326 IAC 2-7-5(15)]	
A.4	Part 70 Permit Applicability [326 IAC 2-7-2]	
SECTION B	GENERAL CONDITIONS	7
B.1	Definitions [326 IAC 2-7-1]	
B.2	Permit Term [326 IAC 2-7-5(2)] [326 IAC 2-1.1-9.5] [326 IAC 2-7-4(a)(1)(D)] [IC 13-15-3- 6(a)]	
B.3	Term of Conditions [326 IAC 2-1.1-9.5]	
B.4	Enforceability [326 IAC 2-7-7]	
B.5	Severability [326 IAC 2-7-5(5)]	
B.6	Property Rights or Exclusive Privilege [326 IAC 2-7-5(6)(D)]	
B.7	Duty to Provide Information [326 IAC 2-7-5(6)(E)]	
B.8	Certification [326 IAC 2-7-4(f)] [326 IAC 2-7-6(1)] [326 IAC 2-7-5(3)(C)]	
B.9	Annual Compliance Certification [326 IAC 2-7-6(5)]	
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]	
B.11	Emergency Provisions [326 IAC 2-7-16]	
B.12	Permit Shield [326 IAC 2-7-15] [326 IAC 2-7-20] [326 IAC 2-7-12]	
B.13	Prior Permits Superseded [326 IAC 2-1.1-9.5][326 IAC 2-7-10.5]	
B.14	Termination of Right to Operate [326 IAC 2-7-10] [326 IAC 2-7-4(a)]	
B.15	Deviations from Permit Requirements and Conditions [326 IAC 2-7-5(3)(C)(ii)]	
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]	
B.17	Permit Renewal [326 IAC 2-7-3] [326 IAC 2-7-4] [326 IAC 2-7-8(e)]	
B.18	Permit Amendment or Modification [326 IAC 2-7-11] [326 IAC 2-7-12]	
B.19	Permit Revision Under Economic Incentives and Other Programs [326 IAC 2-7-5(8)] [326 IAC 2-7-12 (b)(2)]	
B.20	Operational Flexibility [326 IAC 2-7-20] [326 IAC 2-7-10.5]	
B.21	Source Modification Requirement [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]	
B.23	Transfer of Ownership or Operational Control [326 IAC 2-7-11]	
B.24	Annual Fee Payment [326 IAC 2-7-19] [326 IAC 2-7-5(7)][326 IAC 2-1.1-7]	
B.25	Credible Evidence [326 IAC 2-7-5(3)][326 IAC 2-7-6][62 FR 8314][326 IAC 1-1-6]	
SECTION C	SOURCE OPERATION CONDITIONS	17
	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]	
C.2	Opacity [326 IAC 5-1]	
C.3	Open Burning [326 IAC 4-1] [IC 13-17-9]	
C.4	Incineration [326 IAC 4-2] [326 IAC 9-1-2]	
C.5	Fugitive Dust Emissions [326 IAC 6-4]	
C.6	Stack Height [326 IAC 1-7]	
C.7	Asbestos Abatement Projects [326 IAC 14-10] [326 IAC 18] [40 CFR 61, Subpart M]	
	Testing Requirements [326 IAC 2-7-6(1)]	
C.8	Performance Testing [326 IAC 3-6]	

TABLE OF CONTENTS (Continued)

Compliance Requirements [326 IAC 2-1.1-11]

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

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

C.10 Compliance Monitoring [326 IAC 2-7-5(3)] [326 IAC 2-7-6(1)]

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

C.12 Instrument Specifications [326 IAC 2-1.1-11][326 IAC 2-7-5(3)][326 IAC 2-7-6(1)]

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

C.13 Emergency Reduction Plans [326 IAC 1-5-2] [326 IAC 1-5-3]

C.14 Risk Management Plan [326 IAC 2-7-5(12)] [40 CFR 68]

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

C.16 Actions Related to Noncompliance Demonstrated by a Stack Test [326 IAC 2-7-5]
[326 IAC 2-7-6]

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

C.17 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]

C.18 General Record Keeping Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-6]

C.19 General Reporting Requirements [326 IAC 2-7-5(3)(C)] [326 IAC 2-1.1-11]

Stratospheric Ozone Protection

C.20 Compliance with 40 CFR 82 and 326 IAC 22-1

SECTION D.1 FACILITY OPERATION CONDITIONS - Incinerator 24

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

D.1.1 Special Condition

D.1.2 General Provisions Relating to NSPS [326 IAC 11-6][40 CFR Part 60, Subpart A] [40 CFR
Part 60, Subpart B]

D.1.3 Hospital/Medical/Infectious Waste Incinerators [326 IAC 11-6] [40 CFR 60.33e]

D.1.4 Operator Training and Qualification Requirements [40 CFR 60.34e][326 IAC 11-6-5]

D.1.5 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

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

D.1.6 Testing Requirements [326 IAC 2-7-6(1),(6)] [326 IAC 11-6-7] [40 CFR 60.37e]

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

D.1.7 Monitoring [326 IAC 11-6-7] [40 CFR 60.38e]

D.1.8 Visible Emissions Notations

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

D.1.9 Record Keeping Requirements

D.1.10 Record Keeping Requirements [326 IAC 11-6-8][40 CFR 60, Subpart Ce]

D.1.11 Reporting Requirements

TABLE OF CONTENTS (Continued)

SECTION D.2 FACILITY OPERATION CONDITIONS - Boilers	30
Emission Limitations and Standards [326 IAC 2-7-5(1)]	
D.2.1 Particulate [326 IAC 6-2-3]	
D.2.2 Sulfur Dioxide (SO ₂) [326 IAC 7-1.1-1]	
D.2.3 Preventative Maintenance Plan [326 IAC 2-7-5(13)]	
Compliance Determination Requirements	
D.2.4 Sulfur Dioxide Emissions and Sulfur Content	
Compliance Monitoring Requirements [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]	
D.2.5 Visible Emissions Notations	
Record Keeping and Reporting Requirements [326 IAC 2-7-5(3)][326 IAC 2-7-19]	
D.2.6 Record Keeping Requirements	
D.2.7 Reporting Requirements	
SECTION D.3 FACILITY OPERATION CONDITIONS - Generators.....	33
Emission Limitations and Standards [326 IAC 2-7-5(1)]	
D.3.1 Minor Source Modification Limit [326 IAC 2-7-10.5(d)]	
Compliance Monitoring Requirements [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]	
D.3.2 Monitoring Requirements	
Record Keeping and Reporting Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-19]	
D.3.3 Record Keeping Requirements	
D.3.4 Reporting Requirements	
SECTION D.4 FACILITY OPERATION CONDITIONS – Insignificant Activities.....	34
Emission Limitations and Standards [326 IAC 2-7-5(1)]	
D.4.1 Particulate Matter (PM) [326 IAC 6-3-2]	
Certification	35
Emergency Occurrence Report.....	36
Quarterly Report	38
Quarterly Deviation and Compliance Monitoring Report	39

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 and two boilers located at the Good Samaritan Hospital.

Responsible Official:	Vice President, Professional and Support Services
Source Address:	520 South Seventh Street, Vincennes, Indiana 47591
Mailing Address:	520 South Seventh Street, Vincennes, Indiana 47591
General Source Phone Number:	(812) 882-5220
SIC Code:	8062
County Location:	Knox
Source Location Status:	Attainment for all criteria pollutants
Source Status:	Part 70 Permit Program Minor Source, under PSD Rules Minor Source, Section 112 of the Clean Air Act Not 1 of 28 Source Categories

A.2 Emission Units and Pollution Control Equipment Summary [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) large Medical Waste Incinerator, identified as EU1, constructed in 1992, with a maximum heat input rate of 4.8 MMBtu per hour, with a maximum charge rate of less than 500 pounds per hour of medical waste and exhausting at stack S1. Under the Emission Guidelines and Compliance Times for Hospital/Medical Infection Waste Incinerators (HMIWI) (40 CFR 60, Subpart Ce) the large medical waste incinerator (EU1) is considered a medium HMIWI.
- (b) Two (2) natural gas fired boilers using distillate fuel for backup, identified as EU2 and EU3, constructed in 1969, with a maximum heat input rate of 46 MMBtu per hour each, and exhausting at stack S2.

Modified Emission Units and Pollution Control Equipment

A modification to the following existing equipment has been approved under Minor Source Modification 083-22842-00027, and is being incorporated into this Title V permit renewal 083-18224-00027.

- (c) One (1) diesel fuel-fired electricity generator, identified as GEN1, rated at 450 kilowatts, and constructed in 1969.
- (d) One (1) diesel fuel-fired electricity generator, identified as GEN2, rated at 420 kilowatts, and constructed in 1982.
- (e) One (1) diesel fuel-fired electricity generator, identified as GEN3, rated at 420 kilowatts, and constructed in 1982.

- (f) One (1) diesel fuel-fired electricity generator, identified as GEN4, rated at 370 kilowatts, and constructed in 1998.

These four (4) existing generators have been in service as emergency generators. In a letter dated March 22, 2006, Good Samaritan Hospital submitted a request to IDEM, OAQ to modify their source. The modification consists of raising the limit on the hours of operation for each of these four existing generators from 500 hours per year to 1,000 hours per twelve consecutive month period, so that the generators may be used for peak power shaving. This source modification is subject to 326 IAC 2-7-10.5(d)(4) because the potential to emit is limited to less than twenty-five tons per year of any regulated pollutant limiting the hours of operation of the process. The modification will be incorporated into the source's Part 70 Operating Permit through this Title V renewal.

The following limit is included in this permit:

The four (4) generators (GEN1, GEN2, GEN3, GEN4) shall each be limited to 1000 hours of operation per twelve (12) consecutive month period, with compliance determined at the end of each month. Any change or modification which increases usage above this limit shall receive approval from IDEM, OAQ before such change may occur. Compliance with this limit makes the modifications done under MSM 083-22842-00027 minor, pursuant to 326 IAC 2-7-10.5(d)(4)(B).

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) The following equipment related to manufacturing activities not resulting in the emissions of HAPs: brazing equipment, cutting torches, soldering equipment, welding equipment. [326 IAC 6-3-2]
- (b) Paved and unpaved roads and parking lots with public access. [326 IAC 6-4]
- (c) Grinding and machining operations controlled with fabric filters, scrubbers, mist collectors, wet collectors, and electrostatic precipitators with a design grain loading of less than or equal to 0.03 grains per actual cubic foot and a gas flow rate less than or equal to 4000 actual cubic feet per minute, including the following: deburring; buffing; polishing; abrasive blasting; pneumatic conveying; and woodworking operations. [326 IAC 6-3-2]

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

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

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

SECTION B GENERAL CONDITIONS

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

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

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

-
- (a) This permit, T083-18244-00027, is issued for a fixed term of five (5) years from the issuance date of this permit, as determined in accordance with IC 4-21.5-3-5(f) and IC 13-15-5-3. Subsequent revisions, modifications, or amendments of this permit do not affect the expiration date of this permit.
- (b) If IDEM, OAQ, upon receiving a timely and complete renewal permit application, fails to issue or deny the permit renewal prior to the expiration date of this permit, this existing permit shall not expire and all terms and conditions shall continue in effect, including any permit shield provided in 326 IAC 2-7-15, until the renewal permit has been issued or denied.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Indiana Department of Environmental Management
Compliance Branch, Office of Air Quality
100 North Senate Avenue
Indianapolis, Indiana 4620

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, and Southwest Regional Office within four (4) daytime business hours after the beginning of the emergency, or after the emergency was discovered or reasonably should have been discovered;

IDEM, Main Office:
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

and

Southwest Regional Office
Telephone Number: 1-888-672-8323
Telephone Number: 812-380-2305
Facsimile Number: 812-380-2304

- (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][326 IAC 2-7-10.5]

- (a) All terms and conditions of permits established prior to T083-18224-00027 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] [326 IAC 2-7-8(e)]

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

Request for renewal shall be submitted to:

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

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

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

- (a) Permit amendments and modifications are governed by the requirements of 326 IAC 2-7-11 or 326 IAC 2-7-12 whenever the Permittee seeks to amend or modify this permit.
- (b) Any application requesting an amendment or modification of this permit shall be submitted to:

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

Indianapolis, Indiana 46204-2251

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 Stack Height [326 IAC 1-7]

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

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

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

- (b) The Permittee shall ensure that a written notification is sent on a form provided by the Commissioner at least ten (10) working days before asbestos stripping or removal work or before demolition begins, per 326 IAC 14-10-3, and shall update such notice as necessary, including, but not limited to the following:
 - (1) When the amount of affected asbestos containing material increases or decreases by at least twenty percent (20%); or
 - (2) If there is a change in the following:
 - (A) Asbestos removal or demolition start date;
 - (B) Removal or demolition contractor; or
 - (C) Waste disposal site.
- (c) The Permittee shall ensure that the notice is postmarked or delivered according to the guidelines set forth in 326 IAC 14-10-3(2).
- (d) The notice to be submitted shall include the information enumerated in 326 IAC 14-10-3(3).

All required notifications shall be submitted to:

Indiana Department of Environmental Management
Asbestos Section, Office of Air Quality
100 North Senate Avenue
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.8 Performance Testing [326 IAC 3-6]

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

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

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

no later than thirty-five (35) days prior to the intended test date. The protocol submitted by the Permittee does not require certification by the "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.9 Compliance Requirements [326 IAC 2-1.1-11]

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

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

C.10 Compliance Monitoring [326 IAC 2-7-5(3)] [326 IAC 2-7-6(1)]

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

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

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

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

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

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

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

C.12 Instrument Specifications [326 IAC 2-1.1-11] [326 IAC 2-7-5(3)][326 IAC 2-7-6(1)]

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

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

C.13 Emergency Reduction Plans [326 IAC 1-5-2] [326 IAC 1-5-3]

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

- (a) The Permittee prepared and submitted written emergency reduction plans (ERPs) consistent with safe operating procedures on December 20, 1996.
- (b) Upon direct notification by IDEM, OAQ, that a specific air pollution episode level is in effect, the Permittee shall immediately put into effect the actions stipulated in the approved ERP for the appropriate episode level.
[326 IAC 1-5-3]

C.14 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.15 Response to Excursions or Exceedances [326 IAC 2-7-5] [326 IAC 2-7-6]

- (a) Upon detecting an excursion or exceedance, the Permittee shall restore operation of the emissions unit(s) (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.16 Actions Related to Noncompliance Demonstrated by a Stack Test [326 IAC 2-7-5] [326 IAC 2-7-6]

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

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

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

C.17 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)(3), starting in 2006 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.18 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 make 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.19 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. 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.20 Compliance with 40 CFR 82 and 326 IAC 22-1

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

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

SECTION D.1 FACILITY OPERATION CONDITIONS

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

- (a) One (1) large Medical Waste Incinerator, identified as EU1, constructed in 1992, with a maximum heat input rate of 4.8 MMBtu per hour, with a maximum charge rate of less than 500 pounds per hour of medical waste and exhausting at stack S1. Under the Emission Guidelines and Compliance Times for Hospital/Medical Infection Waste Incinerators (HMIWI) (40 CFR 60, Subpart Ce) the large medical waste incinerator (EU1) is considered a medium HMIWI.

(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 Special Condition

Pursuant to Operating Permit T083-7971-00027, issued on July 22, 1999, the medical waste incinerator, identified as EU1, shall have a charge rate of less than 500 pounds per hour of medical waste.

D.1.2 General Provisions Relating to NSPS [326 IAC 11-6][40 CFR Part 60, Subpart A] [40 CFR Part 60, Subpart B]

The provisions of 40 CFR 60, Subpart A - General Provisions and 40 CFR 60, Subpart B – Adoption and Submittal of State Plans for Designated Facilities, which are incorporated by reference in 326 IAC 11-6, apply to the facility described in this section except when otherwise specified in 40 CFR 60, Subpart Ce.

D.1.3 Hospital/Medical/Infectious Waste Incinerators [326 IAC 11-6] [40 CFR 60.33e]

Pursuant to 326 IAC 11-6-4 and 40 CFR 60, Subpart Ce, Section 60.33e, the medical waste incinerator shall comply with the following emission limits:

- (a) Particulate Matter emissions shall not exceed 0.03 grains per dry standard cubic foot for medium Hospital/Medical/Infectious Waste Incinerators;
- (b) Carbon Monoxide emissions shall not exceed 40 parts per million by volume;
- (c) 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);
- (d) Hydrogen chloride emissions shall not exceed 100 parts per million by volume or a 93% reduction;
- (e) Sulfur dioxide emissions shall not exceed 55 parts per million by volume;
- (f) Nitrogen oxide emissions shall not exceed 250 parts per million by volume;
- (g) Lead emissions shall not exceed 0.52 grains per thousand dry standard cubic feet or a 70% reduction;
- (h) Cadmium emissions shall not exceed 0.07 grains per thousand dry standard cubic feet or a 65% reduction;

- (i) Mercury emissions shall not exceed 0.24 grains per thousand dry standard cubic feet or an 85% reduction;
- (j) Discharge into the atmosphere of any gases shall not exceed ten percent (10%) opacity.

D.1.4 Operator Training and Qualification Requirements [40 CFR 60.34e] [326 IAC 11-6-5]

Pursuant to 326 IAC 11-6-5, 40 CFR 60, Subpart Ce, Section 34e:

- (a) 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 trained and qualified HMIWI operator may operate the HMIWI directly or be the direct supervisor of one or more HMIWI operators.
- (b) The Permittee shall maintain documentation at the facility that addresses the following:
 - (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 within the standards established in paragraph (a) above;
 - (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;
 - (10) Procedures for handling ash.
- (c) The Permittee shall establish a program for reviewing the information listed in paragraph (b) above, on an annual basis, with each HMIWI operator.
- (d) The information listed in paragraph (b) above shall be kept in a readily accessible location for all HMIWI operators. This information, along with records of training shall be available for inspection by the EPA or its delegated enforcement agent upon request.

D.1.5 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 Determination Requirements [326 IAC 2-7-6(1)][326 IAC 2-7-5(1)]

D.1.6 Testing Requirements [326 IAC 2-7-6(1),(6)] [326 IAC 11-6-7] [40 CFR 60.37e]

- (a) Pursuant to 326 IAC 11-6-7(a), and 40 CFR 60, Subpart Ce, Section 60.37e, the Permittee shall determine compliance with the opacity, PM, CO, and HCl emission limits by conducting an annual performance test (no more than 12 months following the previous performance test) using applicable procedures and test methods as approved by

the Commissioner. If the first 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.

- (b) 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.

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

D.1.7 Monitoring [326 IAC 11-6-7] [40 CFR 60.38e] [40 CFR 60.57c]

Pursuant to 326 IAC 11-6-7(c), and 40 CFR 60, Subpart Ce, Section 60.38e, the Permittee shall:

- (a) The Permittee shall install, calibrate to manufacturers' specifications, maintain, and operate devices (or establish methods) for monitoring the maximum charge rate, maximum flue gas temperature, and minimum secondary chamber temperature such that these devices (or methods) measure these operating parameters on a continuous basis and record values for these operating parameters every hour for maximum charge rate and every minute for maximum flue gas temperature and minimum secondary chamber temperature at all times that the incinerator is in operation except during periods of startup and shutdown.
- (b) The Permittee shall 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) The Permittee shall 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.1.8 Visible Emissions Notations

- (a) Visible emission notations of the medical waste incinerator (EU1) stack exhaust (S1) shall be performed once per day during normal daylight operations. 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.1.9 Record Keeping Requirements

- (a) To document compliance with Condition D.1.8, the Permittee shall maintain records of visible emission notations of the incinerator stack exhaust (S1) once per day.
- (b) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

D.1.10 Record Keeping Requirements [326 IAC 11-6-8][40 CFR 60, Subpart Ce]

Pursuant to 326 IAC 11-6-8(a) and (b) and 40 CFR 60, Subpart Ce, Section 60.38e(a), the Permittee shall maintain the following information for a period of at least 5 years:

- (a) Records and dates of the following data:
 - (1) Concentrations of any pollutant listed in 40 CFR 60.52c or measurements of opacity as determined by the continuous emission monitoring system (if applicable);
 - (2) HMIWI charge dates, times, and weights and hourly charge rates;
 - (3) Secondary chamber temperatures recorded during each minute of operation;
 - (4) Records indicating use of the bypass stack, including dates, times, and durations, and
 - (5) For affected facilities complying 40 CFR 60.57c(c), the Permittee shall maintain all operating parameter data collected.
- (b) Identification of calendar days for which data on emission rates or operating parameters specified under 40 CFR 60.58c(b)(2) (as applicable) 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.
- (c) Identification of calendar days, times and durations of malfunctions, a description of the malfunction and the corrective action taken.
- (d) Identification of calendar days for which data on emission rates or operating parameters specified under 40 CFR 60.58c(b)(2) (as applicable) exceeded the applicable limits, with a description of the exceedances, reasons for such exceedances, and a description of corrective actions taken.
- (e) The results of the initial, annual, and any subsequent performance tests conducted to determine compliance with the emission limits and/or to establish operating parameters, as applicable.
- (f) Records showing the names of HMIWI operators who have completed review of the information in 40 CFR 60.53c(h) as required by 40 CFR 60.53c(i), including the date of the initial review and all subsequent annual reviews.

- (g) 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.
- (h) Records showing the names of the HMIWI operators who have met the criteria for qualification under 40 CFR 60.53c and the dates of their qualification.
- (i) Records of calibration of any monitoring devices as required under 40 CFR 60.57c (a), (b), and (c).

The Permittee shall maintain these records onsite in either paper copy or computer-readable format, unless an alternative format is approved by the Administrator.

D.1.11 Reporting Requirements

Pursuant to 326 IAC 11-6-8(a) and (b), and 40 CFR 60, Subpart Ce, Section 60.38e(a), the Permittee shall submit a semi-annual report. The semi-annual report shall include the following information:

- (a) The values for the site-specific operating parameters, as applicable;
- (b) The highest maximum operating parameter and the lowest operating parameter, as applicable, for the year being reported;
- (c) The highest maximum operating parameter and the lowest operating parameter, as applicable, for the year preceding the year being reported;
- (d) For the year being reported:
 - (1) Identification of calendar days for which data on emission rates or operating parameters specified under 40 CFR 60.58c(b)(2) (as applicable) 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.
 - (2) Identification of calendar days, times and durations of malfunctions, a description of the malfunction and the corrective action taken.
 - (3) Identification of calendar days for which data on emission rates or operating parameters specified under 40 CFR 60.58c(b)(2) (as applicable) exceeded the applicable limits, with a description of the exceedances, reasons for such exceedances, and a description of corrective actions taken.
- (e) For the calendar year preceding the year being reported:
 - (1) Identification of calendar days for which data on emission rates or operating parameters specified under 40 CFR 60.58c(b)(2) (as applicable) 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.
 - (2) Identification of calendar days, times and durations of malfunctions, a description of the malfunction and the corrective action taken.
 - (3) Identification of calendar days for which data on emission rates or operating parameters specified under 40 CFR 60.58c(b)(2) (as applicable) exceeded the applicable limits, with a description of the exceedances, reasons for such exceedances, and a description of corrective actions taken.

- (f) If a performance test was conducted during the reporting period, the results of that test;
- (g) If no exceedances or malfunctions were reported for the calendar year being reported, a statement that no exceedances occurred during the reporting period;
- (h) Any use of the bypass stack, the duration, reason for malfunction and corrective action taken;

The semi-annual report shall be submitted to the addresses listed in Section C - General Reporting Requirements, of this permit within sixty (60) days after the end of the six (6) month period being reported. Reporting periods shall be based on the calendar semi-annual period (January 1 through June 30, and July 1 through December 31). The report submitted by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

SECTION D.2

FACILITY OPERATION CONDITIONS

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

- (b) Two (2) natural gas fired boilers using distillate fuel for backup, identified as EU2 and EU3, constructed in 1969, with a maximum heat input rate of 46 MMBtu per hour each, and exhausting at stack S2.

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

Pursuant to 326 IAC 6-2-3 (d) (Particulate Emission Limitations for Sources of Indirect Heating: emission limitations for facilities specified in 326 IAC 6-2-1 (b)), PM from the two (2) 46 MMBtu/hr boilers (EU2 and EU3) used for indirect heating purposes which were existing and in operation on or before June 8, 1972, shall in no case exceed 0.8 pounds of particulate matter per million British thermal units heat input.

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

Pursuant to 326 IAC 7-1.1 (SO₂ Emissions Limitations), the SO₂ emissions from the two (2) 46 MMBtu/hr boilers shall not exceed five tenths (0.5) pounds per million Btu heat input. Compliance shall be demonstrated on a calendar month average.

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 these facilities.

Compliance Determination Requirements

D.2.4 Sulfur Dioxide Emissions and Sulfur Content

Compliance shall be determined utilizing one of the following options.

- (a) Pursuant to 326 IAC 3-7-4, the Permittee shall demonstrate that the sulfur dioxide emissions do not exceed five-tenths (0.5) pounds per million Btu heat input by:
- (1) Providing vendor analysis of fuel delivered, if accompanied by a vendor certification, or;
 - (2) Analyzing the oil sample to determine the sulfur content of the oil via the procedures in 40 CFR 60, Appendix A, Method 19.
 - (A) Oil samples may be collected from the fuel tank immediately after the fuel tank is filled and before any oil is combusted; and
 - (B) If a partially empty fuel tank is refilled, a new sample and analysis would be required upon filling.
- (b) Compliance may also be determined by conducting a stack test for sulfur dioxide emissions from the two (2) 46 MMBtu/hr boilers, using 40 CFR 60, Appendix A, Method 6 in accordance with the procedures in 326 IAC 3-6.

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

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

D.2.5 Visible Emissions Notations

- (a) Visible emission notations of the two (2) 46 MMBtu/hr boilers stack exhaust (S2) shall be performed once per day during normal daylight operations when combusting fuel oil. A trained employee shall record whether emissions are normal or abnormal.
- (b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.
- (c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.
- (d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.
- (e) If abnormal emissions are observed, the Permittee shall take reasonable response steps in accordance with Section C- Response to Excursions or Exceedances. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances shall be considered a deviation from this permit.

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

D.2.6 Record Keeping Requirements

- (a) To document compliance with Condition 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.2.5, the Permittee shall maintain records of visible emission notations of the boilers stack exhaust (S2) once per day.
- (c) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

D.2.7 Reporting Requirements

- (a) The natural gas boiler certification shall be submitted to the address listed in Section C - General Reporting Requirements, of this permit, using the reporting forms located at the end of this permit, or its equivalent, within thirty (30) days after the end of the six (6) month period being reported. The natural gas-fired boiler certification does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).
- (b) Pursuant to 326 IAC 7-2-1(c)(3), the Permittee shall submit reports of calendar month average sulfur content, heat content, fuel consumption and sulfur dioxide emission rate in pounds per million Btus upon request of IDEM, OAQ.

SECTION D.3 FACILITY OPERATION CONDITIONS

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

- (c) One (1) diesel fuel-fired electricity generator, identified as GEN1, rated at 450 kilowatts, and constructed in 1969.
- (d) One (1) diesel fuel-fired electricity generator, identified as GEN2, rated at 420 kilowatts, and constructed in 1982.
- (e) One (1) diesel fuel-fired electricity generator, identified as GEN3, rated at 420 kilowatts, and constructed in 1982.
- (f) One (1) diesel fuel-fired electricity generator, identified as GEN4, rated at 370 kilowatts, and constructed in 1998.

(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 Minor Source Modification Limit [326 IAC 2-7-10.5(d)]

The four (4) generators shall each be limited to 1000 hours of operation per twelve (12) consecutive month period, with compliance determined at the end of each month. Any change or modification which increases usage above this limit shall receive approval from IDEM, OAQ before such change may occur. Compliance with this limit makes the modifications done under MSM 083-22842-00027 minor, pursuant to 326 IAC 2-7-10.5(d)(4)(B).

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

D.3.2 Monitoring Requirements

- (a) The four (4) generators shall each be equipped with a meter which measures the total amount of operating time that the generator has been used. The number of hours used per calendar month shall be recorded at the end of each month for each generator.
- (b) Compliance with Condition D.3.1 shall be calculated within 30 days of the end of each month based on the generator usage for the twelve (12) consecutive month period.

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

D.3.3 Record Keeping Requirements

- (a) To document compliance with Condition D.3.1, the Permittee shall maintain records of the number of hours each generator is used per month and per twelve (12) consecutive month period.
- (b) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

D.3.4 Reporting Requirements

A quarterly summary of the information to document compliance with Condition D.3.1 shall be submitted to the addresses listed in Section C - General Reporting Requirements, of this permit, using the reporting forms located at the end of this permit, or their equivalent, within thirty (30) calendar days after the end of the quarter being reported.

SECTION D.4

FACILITY OPERATION CONDITIONS

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

- (a) The following equipment related to manufacturing activities not resulting in the emissions of HAPs: brazing equipment, cutting torches, soldering equipment, welding equipment. [326 IAC 6-3-2]
- (c) Grinding and machining operations controlled with fabric filters, scrubbers, mist collectors, wet collectors, and electrostatic precipitators with a design grain loading of less than or equal to 0.03 grains per actual cubic foot and a gas flow rate less than or equal to 4000 actual cubic feet per minute, including the following: deburring; buffing; polishing; abrasive blasting; pneumatic conveying; and woodworking operations. [326 IAC 6-3-2]

(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.4.1 Particulate [326 IAC 6-3-2]

Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), the allowable particulate emission rate from the insignificant grinding and machining operations and the insignificant brazing equipment, cutting torches, soldering equipment, welding equipment shall be limited by the following:

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

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

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

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT OFFICE OF AIR QUALITY

PART 70 OPERATING PERMIT CERTIFICATION

Source Name: Good Samaritan Hospital
Source Address: 520 South Seventh Street, Vincennes, Indiana 47591
Mailing Address: 520 South Seventh Street, Vincennes, Indiana 47591
Part 70 Permit No.: T083-18224-00027

**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: Good Samaritan Hospital
Source Address: 520 South Seventh Street, Vincennes, Indiana 47591
Mailing Address: 520 South Seventh Street, Vincennes, Indiana 47591
Part 70 Permit No.: T083-18224-00027

This form consists of 2 pages

Page 1 of 2

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|--|
| <input type="checkbox"/> This is an emergency as defined in 326 IAC 2-7-1(12) <ul style="list-style-type: none">C 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); andC 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 Quarterly Report

Source Name: Good Samaritan Hospital
 Source Address: 520 South Seventh Street, Vincennes, Indiana 47591-1038
 Mailing Address: Same
 Part 70 Permit No.: T083-7971-00027
 Facility: Four (4) generators (GEN1, GEN2, GEN3, GEN4)
 Parameters: Hours of usage
 Limit: 1000 hours per 12-month period for each generator.

MONTHS _____ TO _____ YEAR _____

GEN1	Hours Used This Month	Hours Used Previous 11 Months	12-Month Total
Month 1			
Month 2			
Month 3			

GEN2	Hours Used This Month	Hours Used Previous 11 Months	12-Month Total
Month 1			
Month 2			
Month 3			

GEN3	Hours Used This Month	Hours Used Previous 11 Months	12-Month Total
Month 1			
Month 2			
Month 3			

GEN4	Hours Used This Month	Hours Used Previous 11 Months	12-Month Total
Month 1			
Month 2			
Month 3			

Submitted by: _____

Title / Position: _____

Signature: _____

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
 QUARTERLY DEVIATION AND COMPLIANCE MONITORING REPORT**

Source Name: Good Samaritan Hospital
 Source Address: 520 South Seventh Street, Vincennes, Indiana 47591
 Mailing Address: 520 South Seventh Street, Vincennes, Indiana 47591
 Part 70 Permit No.: T083-18224-00027

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: _____

A certification is required for 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:	Good Samaritan Hospital
Source Location:	520 South Seventh Street, Vincennes, Indiana 47591
County:	Knox
SIC Code:	8062
Operation Permit No.:	083-7971-00027
Operation Permit Issuance Date:	July 22, 1999
Permit Renewal No.:	083-18224-00027
Permit Reviewer:	ERG/ST

The Office of Air Quality (OAQ) has reviewed a Part 70 Operating Permit Renewal application from Good Samaritan Hospital relating to the operation of a stationary hospital that operates a medical waste incinerator.

Permitted Emission Units and Pollution Control Equipment

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

- (a) One (1) large Medical Waste Incinerator, identified as EU1, constructed in 1992, with a maximum heat input rate of 4.8 MMBtu per hour, with a maximum charge rate of less than 500 pounds per hour of medical waste and exhausting at stack S1. Under the Emission Guidelines and Compliance Times for Hospital/Medical Infection Waste Incinerators (HMIWI) (40 CFR 60, Subpart Ce) the large medical waste incinerator (EU1) is considered a medium HMIWI.
- (b) Two (2) natural gas fired boilers using distillate fuel for backup, identified as EU2 and EU3, constructed in 1969, with a maximum heat input rate of 46 MMBtu per hour each, and exhausting at stack S2.

Unpermitted Emission Units and Pollution Control Equipment

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

Modified Emission Units and Pollution Control Equipment

A modification to the following existing equipment has been approved under Minor Source Modification 083-22842-00027, and is being incorporated into this Title V permit renewal 083-18224-00027.

- (c) One (1) diesel fuel-fired electricity generator, identified as GEN1, rated at 450 kilowatts, and constructed in 1969.
- (d) One (1) diesel fuel-fired electricity generator, identified as GEN2, rated at 420 kilowatts, and constructed in 1982.

- (e) One (1) diesel fuel-fired electricity generator, identified as GEN3, rated at 420 kilowatts, and constructed in 1982.
- (f) One (1) diesel fuel-fired electricity generator, identified as GEN4, rated at 370 kilowatts, and constructed in 1998.

These four (4) existing generators have been in service as emergency generators. In a letter dated March 22, 2006, Good Samaritan Hospital submitted a request to IDEM, OAQ to modify their source. The modification consists of raising the limit on the hours of operation for each of these four existing generators from 500 hours per year to 1,000 hours per twelve consecutive month period, so that the generators may be used for peak power shaving. This source modification is subject to 326 IAC 2-7-10.5(d)(4) because the potential to emit is limited to less than twenty-five tons per year of any regulated pollutant limiting the hours of operation of the process. The modification will be incorporated into the source's Part 70 Operating Permit through this Title V renewal.

The following limit is included in this permit:

The four (4) generators (GEN1, GEN2, GEN3, GEN4) shall each be limited to 1000 hours of operation per twelve (12) consecutive month period, with compliance determined at the end of each month. Any change or modification which increases usage above this limit shall receive approval from IDEM, OAQ before such change may occur. Compliance with this limit makes the modifications done under MSM 083-22842-00027 minor, pursuant to 326 IAC 2-7-10.5(d)(4)(B).

Insignificant Activities

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

- (a) The following equipment related to manufacturing activities not resulting in the emissions of HAPs: brazing equipment, cutting torches, soldering equipment, welding equipment. [326 IAC 6-3-2]
- (b) Paved and unpaved roads and parking lots with public access. [326 IAC 6-4]
- (c) Grinding and machining operations controlled with fabric filters, scrubbers, mist collectors, wet collectors, and electrostatic precipitators with a design grain loading of less than or equal to 0.03 grains per actual cubic foot and a gas flow rate less than or equal to 4000 actual cubic feet per minute, including the following: deburring; buffing; polishing; abrasive blasting; pneumatic conveying; and woodworking operations. [326 IAC 6-3-2]
- (d) Natural gas-fired combustion sources with heat input equal to or less than ten (10) million Btu per hour.
- (e) Storage tanks with capacity less than or equal to 1,000 gallons and annual throughputs less than 12,000 gallons.
- (f) Degreasing operations that do not exceed 145 gallons per 12 months, except if subject to 326 IAC 20-6, consisting of one (1) degreaser constructed prior to January 1, 1980.
- (g) Cleaners and solvents having a vapor pressure equal to or less than 2 kPa; 15 mm Hg; or 0.3 psi measured at 38 degrees Celsius (100 degrees Fahrenheit) or having a vapor pressure equal to or less than 7.0 kPa; 5 mm Hg; or 0.1 psi measured at 20 degrees Celsius (68 degrees Fahrenheit); the use of which for all cleaners and solvents combined does not exceed 14 gallons per 12 months.

- (h) Replacement or repair of electrostatic precipitators, bags in baghouses, and filters in other air filtration equipment.
- (i) Emergency diesel generators not exceeding 1600 horsepower, consisting of one (1) emergency diesel generator, EG5, rated at 80 kW output.
- (j) Stationary fire pumps, consisting of one (1) diesel fire pump, identified as EP5, rated at 111 hp output.
- (k) A laboratory as defined in 326 IAC 2-7-1(21)(D).
- (l) One (1) storage tank, identified as IEU6, with a capacity less than 40 cubic meters, emitting less than one (1) ton per year of a single HAP and less than fifteen (15) pounds per day of VOC.
- (m) Two (2) offset letterpress machines, identified as IEU16, emitting less than one (1) ton per year of a single HAP and less than fifteen (15) pounds per day of VOC.

Existing Approvals

The source has been operating under Operating Permit T083-7971-00027, issued July 22, 1999, and the following previous approvals:

- (a) Reopening 083-13346-00027, issued on December 14, 2001;
- (b) First Administrative Amendment 083-16801-00027, issued on January 15, 2003; and
- (c) Second Administrative Amendment 083-20624-00027, issued on November 1, 2005.
- (d) Minor Source Modification 083-22842-00027, not yet issued.

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 permits are superseded by this permit.

The following terms and conditions from previous approvals have been revised in this Part 70 permit:

- (a) Condition D.2.8 of Operating Permit T083-7971-00027, requiring that a quarterly report documenting compliance with PM and SO₂ emission standards be sent to IDEM, has been revised to require only a semi-annual natural gas-fired boiler certification.

Reason for revision: There are no applicable regulations requiring quarterly reporting. 326 IAC 7-2-1(c)(3) requires that reports of calendar month average sulfur content, heat content, fuel consumption and sulfur dioxide emission rate in pounds per million Btus be submitted upon request of IDEM. 326 IAC 6-2-3 has no reporting requirement.

The following terms and conditions from previous approvals have been determined no longer applicable; therefore, were not incorporated into this Part 70 permit:

- (a) Condition D.1.4(a) of Operating Permit T083-7971-00027, requiring that the waste incinerator come into compliance with 40 CFR 60, Subpart Ce within one year of the effective date of the rule.

Reason for removal: The rule has come into effect and the medical waste incinerator at this source is currently subject to this NSPS.

- (b) Condition D.1.6 of Operating Permit T083-7971-00027, requiring that the source prepare and submit a waste management plan within 60 days of the issuance of the permit.

Reason for removal: The specified waste management plan has been submitted.

- (c) Condition D.1.9(a) of Operating Permit T083-7971-00027, requiring that an initial performance test be performed to demonstrate compliance with 40 CFR 60, Subpart Ce.

Reason for removal: This initial performance test has been performed and compliance has been demonstrated.

- (d) Condition D.1.10 of Operating Permit T083-7971-00027, requiring that the source install any necessary air pollution control equipment and demonstrate compliance with 40 CFR 60, Subpart Ce.

Reason for removal: The necessary air pollution control equipment has been installed and compliance has been demonstrated.

- (e) Conditions D.1.14(a) and (b) of Operating Permit T083-7971-00027, requiring that the Permittee submit: a control plan, initial performance test data, values for site specific parameters and a waste management plan.

Reason for removal: The Permittee has submitted these documents.

Enforcement Issue

There are no enforcement actions pending.

Recommendation

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

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

An administratively complete Part 70 permit renewal application for the purposes of this review was received on October 15, 2003.

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

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 July 22, 1999. The table below summarizes the potential to emit, reflecting all limits, of the emission units. Any control equipment is considered enforceable only after issuance of the original Part 70 operating Permit and only to the extent that the effect of the control equipment is made practically enforceable in the permit.

Process/emission unit	Potential to Emit (tons/year)						
	PM	PM-10	SO ₂	VOC	CO	NO _x	HAPs
Medical Waste Incinerator	5.14	3.48	2.38	0.45	4.99	5.99	HCl 1.09 All others: 0.45
Boilers	5.76	9.50	123	2.22	33.8	57.6	0.76
Generators	0.71	0.71	1.0	0.84	2.68	11.9	0.017
Total PTE	11.6	13.7	127	3.5	47.8	75.5	2.31

Pursuant to 40 CFR 60.33(e), the medical waste incinerator (MWI) is required to control hydrogen chloride (HCl) and other HAP emissions. The PTE for HAPs for the MWI represents emissions after federally enforceable controls. The PTE for the boilers represents the worst case for each pollutant when burning natural gas or distillate oil.

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

Actual Emissions

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

Pollutant	Actual Emissions (tons/year)
PM10	1
PM2.5	1
SO ₂	0
VOC	0
CO	4
NO _x	5
HAPs	Not reported

County Attainment Status

The source is located in Knox County.

Pollutant	Status
PM-10	Attainment
PM2.5	Attainment or Unclassifiable
SO ₂	Attainment
NO ₂	Attainment
1-hour Ozone	Attainment
8-hour Ozone	Attainment

CO	Attainment
Lead	Attainment

- (a) Knox County has been classified as unclassifiable or 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. Knox County has been designated as attainment or unclassifiable for ozone. Therefore, VOC and NO_x emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2. See the State Rule Applicability – Entire Source section.
- (c) Knox County has been classified as attainment or unclassifiable 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 – Entire Source section.

Part 70 Permit Conditions

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

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

Federal Rule Applicability

- (a) The requirements of 40 CFR Part 64, Compliance Assurance Monitoring, are not included in this permit. This source does not involve a pollutant-specific emissions unit as defined in 40 CFR 64.1 for PM, PM₁₀, PM_{2.5}, VOC, NO_x, SO₂ or CO: with the potential to emit before controls equal to or greater than the major source threshold for PM, PM₁₀, PM_{2.5}, VOC, NO_x, SO₂ or CO, that is subject to an emission limitation or standard for PM, PM₁₀, PM_{2.5}, VOC, NO_x, SO₂ or CO, and uses a control device as defined in 40 CFR 64.1 to comply with that emission limitation or standard. The medical waste incinerator does not have a PTE for PM, PM₁₀, PM_{2.5}, SO₂, VOC, NO_x or CO equal to or greater than the major source threshold. The boilers do not use an emissions control device to comply with an emission limitation or standard.
- (b) The one (1) Hospital Medical Infectious Waste Incinerator, identified as EU1, is subject to the requirements of the Emission Guidelines and Compliance Times for Hospital/Medical/Infectious Waste Incinerators (40 CFR Part 60.30e, Subpart Ce) because it is an individual HMIWI that was constructed prior to June 20, 1996. The State of Indiana has implemented the requirements of the Emission Guideline under 326 IAC 11-6. See the State Rule Applicability – Individual Facilities section of this TSD for a full discussion of this rule.

- (c) The requirements of the New Source Performance Standard for Hospital/Medical/ Infectious Waste Incinerators for Which Construction is Commenced After June 20, 1996, (326 IAC 12, 40 CFR 60, Subpart Ec), are not included in this permit for the one (1) Hospital Medical Infectious Waste Incinerator, identified as EU1. The incinerator was constructed prior to June 20, 1996.
- (d) The requirements of the New Source Performance Standards for Fossil-Fuel-Fired Steam Generators, (326 IAC 12, 40 CFR 60, Subpart D) are not included in this permit for the two (2) 46 MMBtu/hr natural gas-fired boilers because the maximum heat input of these boilers is less than 250 MMBtu/hr.
- (e) The requirements of the New Source Performance Standards for Electric Utility Steam Generating Units, (326 IAC 12, 40 CFR 60, Subpart Da) are not included in this permit for the two (2) 46 MMBtu/hr natural gas-fired boilers because these boilers are not electric utility steam generating units.
- (f) The requirements of the New Source Performance Standards for Industrial-Commercial-Institutional Steam Generating Units, (326 IAC 12, 40 CFR 60, Subpart Db) are not included in this permit for the two (2) 46 MMBtu/hr natural gas-fired boilers because these boilers have a heat input capacity less than 100 MMBtu/hr.
- (g) The requirements of the New Source Performance Standards for Small Industrial-Commercial-Institutional Steam Generating Units (326 IAC 12, 40 CFR 60, Subpart Dc), are not included in this permit for the two (2) 46 MMBtu/hr natural gas-fired boilers. These boilers were constructed before June 9, 1989.
- (h) The requirements of the New Source Performance Standards for Storage Vessels for Petroleum Liquids for Which Construction, Reconstruction, or Modification Commenced After June 11, 1973, and Prior to May 19, 1978, (40 CFR 60, Subpart K) are not included in this permit for the storage tank, identified as IEU6, because the capacity of the tank is less than 40,000 gallons.
- (i) The requirements of the New Source Performance Standards for Storage Vessels for Petroleum Liquids for Which Construction, Reconstruction, or Modification Commenced After May 18, 1978, and Prior to July 23, 1984, (40 CFR 60, Subpart Ka) are not included in this permit for the storage tank, identified as IEU6, because the capacity of the tank is less than 40,000 gallons.
- (j) The requirements of the New Source Performance Standards for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced After July 23, 1984 (40 CFR 60, Subpart Kb) are not included in this permit for the storage tank, identified as IEU6, because the capacity of the tank is less than 75 cubic meters.
- (k) The requirements of the National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers and Process Heaters, 40 CFR 63, Subpart DDDDD are not included in this permit for the two (2) natural gas fired boilers using distillate fuel for backup, identified as EU2 and EU3, because this source is not a major source of HAPs.
- (l) The requirements of the National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (RICE), (40 CFR 63, Subpart ZZZZ) are not included in this permit for the four (4) diesel generators (GEN1, GEN2, GEN3, GEN4) and the emergency diesel generator (EG5) because these engines are existing stationary reciprocating internal combustion engines (RICE) and are not located at a major source of HAP emissions.

- (m) The requirements of the National Emission Standards for Halogenated Solvent Cleaning, (326 IAC 20-6, 40 CFR 63, Subpart T) are not included in this permit for the degreasing operations because the cold solvent cleaning machine does not use a solvent containing methylene chloride, perchlorethylene, trichlorethylene, 1,1,1-trichlorethane, carbon tetrachloride, chloroform or any combination of these halogenated HAP solvents in a total concentration greater than five percent (5%) by weight as a cleaning or drying agent.

State Rule Applicability – Entire Source

326 IAC 2-2 (Prevention of Significant Deterioration)

This source is not in 1 of the 28 source categories and there are no applicable New Source Performance Standards that were in effect on August 7, 1980, therefore, fugitive emissions are not counted towards applicability of PSD.

This source was constructed in 1968.

At the time that the PSD rules were promulgated, the potential to emit for PM, PM10, NO_x, SO₂, CO and VOC of the entire source was less than 250 tons per year. The source was a minor PSD source under PSD.

In 1992, the source added a medical waste incinerator (EU1). The increases in PTE for PM, PM10, VOC, SO₂, NO_x and CO due to this modification were all less than 6 tons per year. The potential to emit for PM, PM10, NO_x, SO₂, CO, and VOC of the entire source was less than 250 tons per year after this modification. The source remained a minor PSD source after this modification.

In 2006, under Minor Source Modification 083-22842-00027, the source increased the hours of operation for four (4) generators (GEN1, GEN2, GEN3, GEN4). This modification did not trigger PSD review because the increase in PTE of all attainment regulated pollutants is less than the PSD major source thresholds.

The potential to emit for PM, PM10, NO_x, SO₂, CO and VOC of the entire source is less than 250 tons per year. Therefore, this source is a minor source under PSD.

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

This source has not installed any new major sources of HAPs since July 27, 1997. Therefore the requirements of 326 IAC 2-4.1-1 do not apply.

326 IAC 2-6 (Emission Reporting)

Since this source is required to have an operating permit under 326 IAC 2-7, Part 70 Permit Program, this source is subject to 326 IAC 2-6 (Emission Reporting). In accordance with the compliance schedule in 326 IAC 2-6-3, an emission statement must be submitted triennially by July 1 beginning in 2006 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 Limitations)

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

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

Method 9 or fifteen (15) one (1) minute nonoverlapping integrated averages for a continuous opacity monitor) in a six (6) hour period.

326 IAC 6-4 (Fugitive Dust)

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 6-5 (Fugitive Particulate Matter Emission Limitations)

This source is not located in a county listed in 326 IAC 6-5-1(a) and has not added a facility with the potential to emit fugitive particulate matter greater than 25 tons per year, which requires a permit as set forth in 326 IAC 2, after December 13, 1985. Therefore, pursuant to 326 IAC 6-5-1, this source is not subject to the requirements of 326 IAC 6-5.

326 IAC 10-4 (Nitrogen Oxides Budget Trading Program)

This source is not subject to 326 IAC 10-4 because the source does not contain a large affected unit or electricity generating unit as defined in 326 IAC 10-4-1.

State Rule Applicability – Medical Waste Incinerator (EU1)

326 IAC 4-2-2 (Incinerators)

Pursuant to 326 IAC 4-2-1(b)(2)(D), the one (1) Hospital Medical Infectious Waste Incinerator, identified as EU1, is not subject to the requirements of 326 IAC 4-2-2 because it is subject to the state plan approved under 40 CFR 62.3640 through 40 CFR 62.3642 for Hospital/Medical/Infectious Waste Incinerators, and by reference, 326 IAC 11-6 and 40 CFR 60, Subpart Ce.

326 IAC 6-3 (Particulate Emissions for Manufacturing Processes)

Pursuant to 326 IAC 6-3-1(b)(2), incinerators are exempt from this rule.

326 IAC 9-1-2 (Carbon Monoxide Emissions)

Pursuant to 326 IAC 9-1-2(b), this Hospital Medical Infectious Waste Incinerator (HMIWI) is not subject to the requirements of 326 IAC 9-1-2(a) because amendments to the carbon monoxide control methods specified in 326 IAC 9-1-2(a)(3) were submitted as an amendment to the state implementation plan (SIP) and were approved by EPA on February 15, 2000. This HMIWI is subject to the requirements of 326 IAC 11-6, which incorporates by reference the requirements of 40 CFR 60, Subpart Ce.

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

The medical waste incinerator, identified as EU1, is subject to 326 IAC 11-6 and 40 CFR 60, Subpart Ce, because it is a Hospital/Medical/Infectious Waste Incinerator (HMIWI) for which construction commenced on or before June 20, 1996. The maximum rated capacity of this HMIWI is 565 pounds of waste per hour. However, pursuant to T083-7971-00027, issued on July 22, 1999, and conditions in this permit, this HMIWI is limited to less than 500 pounds of waste per hour. Therefore, pursuant to 40 CFR 60.51c, this HMIWI is a "medium HMIWI." The definitions of 40 CFR 60.31e, 40 CFR 60.51c, and 40 CFR 60, Subparts A and B, which are incorporated by reference in 326 IAC 11-2, apply to this Hospital Medical Infectious Waste Incinerator.

(a) Pursuant to 326 IAC 11-6-4 and 40 CFR 60, Subpart Ce, Section 60.33e(a), Section 60.52c(b), the medical waste incinerator shall comply with the following emission limits:

- (1) Particulate Matter emissions shall not exceed 0.03 grains per dry standard cubic foot;
- (2) Carbon Monoxide 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 emissions shall not exceed 100 parts per million by volume or a 93% reduction;
 - (5) Sulfur dioxide emissions shall not exceed 55 parts per million by volume;
 - (6) Nitrogen oxide 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 an 85% reduction;
 - (10) Discharge into the atmosphere of any gases shall not exceed ten percent (10%) opacity.
- (b) Pursuant to 326 IAC 11-6-5 and 40 CFR 60, Subpart Ce, Section 34e;
- (1) 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 trained and qualified HMIWI operator may operate the HMIWI directly or be the direct supervisor of one or more HMIWI operators.
 - (2) The Permittee shall maintain documentation at the facility that addresses the following:
 - (A) Summary of the applicable standards;
 - (B) Description of basic combustion theory applicable to an HMIWI;
 - (C) Procedures for receiving, handling, and charging waste;
 - (D) HMIWI startup, shutdown and malfunction procedures;
 - (E) Procedures for maintaining proper combustion air supply levels;
 - (F) Procedures for operating the HMIWI and associated air pollution control systems within the standards established in paragraph (a) above;
 - (G) Procedures for responding to periodic malfunction or conditions that may lead to malfunction;
 - (H) Procedures for monitoring HMIWI emissions;
 - (I) Reporting and recordkeeping procedures;
 - (J) Procedures for handling ash.

- (3) The Permittee shall establish a program for reviewing the information listed in subparagraph (2)(A) through(J), on an annual basis, with each HMIWI operator.
 - (4) The information listed in subparagraph (2)(A) through(J) shall be kept in a readily accessible location for all HMIWI operators. This information, along with records of training shall be available for inspection by the EPA or its delegated enforcement agent upon request.
 - (c) Pursuant to 326 IAC 11-6-7(a) and 40 CFR 60, Subpart Ce, Section 60.37e, the Permittee shall determine compliance with the opacity, PM, CO, and HCl emission limits by conducting an annual performance test (no more than 12 months following the previous performance test) using applicable procedures and test methods as approved by the Commissioner. If the first 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.
 - (d) Pursuant to 326 IAC 11-6-7(c), and 40 CFR 60, Subpart Ce, Section 60.38e, the Permittee shall:
 - (1) The Permittee shall install, calibrate to manufacturers' specifications, maintain, and operate devices (or establish methods) for monitoring the maximum charge rate, maximum flue gas temperature, and minimum secondary chamber temperature such that these devices (or methods) measure these operating parameters on a continuous basis and record values for these operating parameters every hour for maximum charge rate and every minute for maximum flue gas temperature and minimum secondary chamber temperature at all times that the incinerator is in operation except during periods of startup and shutdown.
 - (2) The Permittee shall 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.
 - (3) The Permittee shall 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.
 - (e) Pursuant to 326 IAC 11-6-8(a) and (b) and 40 CFR 60, Subpart Ce, Section 60.38e(a), the Permittee shall:
 - (1) Maintain the following information for a period of at least 5 years:
 - (A) Records and dates of the following data:

- (i) Concentrations of any pollutant listed in 40 CFR 60.52c or measurements of opacity as determined by the continuous emission monitoring system (if applicable);
 - (ii) HMIWI charge dates, times, and weights and hourly charge rates;
 - (iii) Secondary chamber temperatures recorded during each minute of operation;
 - (iv) Records indicating use of the bypass stack, including dates, times, and durations, and
 - (v) For affected facilities complying 40 CFR 60.57c(c), the Permittee shall maintain all operating parameter data collected.
- (B) Identification of calendar days for which data on emission rates or operating parameters specified under 40 CFR 60.58c(b)(2) (as applicable) 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.
- (C) Identification of calendar days, times and durations of malfunctions, a description of the malfunction and the corrective action taken.
- (D) Identification of calendar days for which data on emission rates or operating parameters specified under 40 CFR 60.58c(b)(2) (as applicable) exceeded the applicable limits, with a description of the exceedances, reasons for such exceedances, and a description of corrective actions taken.
- (E) The results of the initial, annual, and any subsequent performance tests conducted to determine compliance with the emission limits and/or to establish operating parameters, as applicable.
- (F) Records showing the names of HMIWI operators who have completed review of the information in 40 CFR 60.53c(h) as required by 40 CFR 60.53c(i), including the date of the initial review and all subsequent annual reviews.
- (G) 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.
- (H) Records showing the names of the HMIWI operators who have met the criteria for qualification under 40 CFR 60.53c and the dates of their qualification.
- (I) Records of calibration of any monitoring devices as required under 40 CFR 60.57c (a), (b), and (c).

The Permittee shall maintain these records onsite in either paper copy or computer-readable format, unless an alternative format is approved by the Administrator.

- (2) Submit a semi-annual report. The semi-annual report shall include the following information:
- (A) The values for the site-specific operating parameters, as applicable;
 - (B) The highest maximum operating parameter and the lowest operating parameter, as applicable, for the year being reported;
 - (C) The highest maximum operating parameter and the lowest operating parameter, as applicable, for the year preceding the year being reported;
 - (D) Identification of calendar days for which data on emission rates or operating parameters specified under 40 CFR 60.58c(b)(2) (as applicable) 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; identification of calendar days, times and durations of malfunctions, a description of the malfunction and the corrective action taken; identification of calendar days for which data on emission rates or operating parameters specified under 40 CFR 60.58c(b)(2) (as applicable) exceeded the applicable limits, with a description of the exceedances, reasons for such exceedances, and a description of corrective actions taken;
 - (E) Identification of calendar days for which data on emission rates or operating parameters specified under 40 CFR 60.58c(b)(2) (as applicable) 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; identification of calendar days, times and durations of malfunctions, a description of the malfunction and the corrective action taken; identification of calendar days for which data on emission rates or operating parameters specified under 40 CFR 60.58c(b)(2) (as applicable) exceeded the applicable limits, with a description of the exceedances, reasons for such exceedances, and a description of corrective actions taken; for the calendar year preceding the year being reported;
 - (F) If a performance test was conducted during the reporting period, the results of that test;
 - (G) If no exceedances or malfunctions were reported for the calendar year being reported, a statement that no exceedances occurred during the reporting period;
 - (H) Any use of the bypass stack, the duration, reason for malfunction and corrective action taken;

The semiannual reports shall be submitted no later than 60 days following the reporting period. Subsequent reports shall be submitted no later than 6 calendar months following the previous report. All reports shall be signed by the facilities manager.

State Rule Applicability – Boilers (EU2 and EU3)

326 IAC 6-2-3 (Particulate Emissions Limitations for Sources of Indirect Heating)

The two (2) 46 MMBtu/hr natural gas fired boilers using distillate fuel for backup, identified as EU2 and EU3, are located in Knox County and were constructed prior to September 21, 1983.

Pursuant to 326 IAC 6-2-3, boilers existing and in operation before September 21, 1983 shall be limited by the following equation or by 0.8 lbs per MMBtu/hr, whichever is more stringent:

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

Where:

C = max ground level concentration (= 50 $\mu\text{m}/\text{m}^3$)

Pt = emission rate limit (lbs/MMBtu)

Q = total source heat input capacity (MMBtu/hr)

N = number of stacks = 1

a = plume rise factor = 0.67

h = stack height (ft) = 60 ft

The emission rate limit established from the equation above equals:

$$Pt = \frac{50 \times 0.67 \times 60}{76.5 \times (92.0)^{0.75} \times 1^{0.25}} = 0.88 \text{ lbs/MMBtu}$$

Therefore, pursuant to 326 IAC 6-2-3(d), the most stringent PM emission limit for these boilers is 0.8 lbs/MMBtu.

Potential PM emissions from two (2) 46 MMBtu/hr natural gas fired boilers using distillate fuel for backup are estimated to be 0.014 lbs/MMBtu. The two (2) 46 MMBtu/hr natural gas fired boilers using distillate fuel for backup are in compliance with this rule.

326 IAC 7-1.1-1 (Sulfur Dioxide (SO₂) Emissions Limitations)

The two natural gas fired boilers using distillate oil as backup are subject to the requirements of 326 IAC 7-1.1-1 because the PTE for SO₂ from each of these boilers is greater than 25 tons per year when burning fuel oil. Pursuant to 326 IAC 7-1.1 (SO₂ Emissions Limitations), the SO₂ emissions from each of the boilers, EU2 and EU3, shall not exceed five tenths (0.5) pounds per MMBtu heat input when using distillate fuel for backup. Since the potential SO₂ emissions from each boiler of 0.5 pounds per hour is equal to the allowable for each of 0.5 pounds per hour, the boilers are in compliance with 326 IAC 7-1.1.

State Rule Applicability – Five (5) Electricity Generators

326 IAC 7-1.1 (Sulfur Dioxide Emission Limitations)

These generators are not subject to 326 IAC 7-1.1. No generator has the potential to emit twenty-five (25) tons per year or ten (10) pounds per hour of sulfur dioxide.

State Rule Applicability - Insignificant Facilities

326 IAC 8-3-2 (Cold Cleaner Operations)

This cold cleaner degreasing facility is located in Knox County and was constructed before January 1, 1980. Therefore, the requirements of 326 IAC 8-3-2 do not apply

326 IAC 8-3-5 (Cold Cleaner Degreaser Operation and Control)

This cold cleaner degreasing facility is located in Knox County, and was constructed before January 1, 1990. Therefore, the requirements of 326 IAC 8-3-5 do not apply.

326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes)

Pursuant to 326 IAC 6-3-2, the particulate from the insignificant grinding and machining operation and the insignificant brazing equipment, cutting torches, soldering equipment, welding equipment shall be limited by the following:

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

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

The baghouse shall be in operation at all times the grinding and machining operation is in operation, in order to comply with this limit.

326 IAC 12 (New Source Performance Standards)

The one (1) storage tank, identified as IEU6, is not subject to the requirements of 326 IAC 12 because it has a volume less than 75 cubic meters.

Testing Requirements

The testing requirements for the facilities at this source are as follows.

- (a) The two (2) 46 MMBtu/hr natural gas fired boilers using distillate fuel for backup do not have a testing requirement for PM, SO₂, NO_x, VOC and CO because the AP-42 emission factors used to calculate the potential to emit for these pollutants have a high rating. These boilers do not have a testing requirement for PM₁₀ because each of these emissions units accounts for a small proportion of the total potential to emit for PM₁₀ from the source before controls.
- (b) Pursuant to 40 CFR 60, Subpart Ce and 326 IAC 11-6-7, the medical waste incinerator (EU1) at this source has a testing requirement for opacity, PM, CO, and hydrogen chloride (HCl). An annual performance test shall be conducted no more than 12 months following the previous performance test using applicable procedures and test methods as approved by the Commissioner. If the first 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.

Compliance Requirements

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

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

The compliance monitoring requirements applicable to this source are as follows.

1. The medical waste incinerator (EU1) and the two (2) 46 MMBtu/hr natural gas fired boilers using distillate fuel for backup (EU2 and EU3) have applicable compliance monitoring conditions as specified below:

Visible emission notations of the incinerator stack exhaust shall be performed once per day during normal daylight operations. Visible emission notations of the boilers stack exhaust shall be performed once per day during normal daylight operations when combusting fuel oil. A trained employee shall record whether emissions are normal or abnormal. 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. 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. 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. If abnormal emissions are observed, the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions or Exceedances. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances shall be considered a deviation from this permit.

These monitoring conditions are necessary because the medical waste incinerator (EU1) and the two (2) 46 MMBtu/hr natural gas fired boilers using distillate fuel for backup (EU2 and EU3) must operate properly to ensure compliance with 326 IAC 6-2-3 (Particulate Emissions Limitations for Sources of Indirect Heating), 326 IAC 11-6 (Emission Limitations for Hospital/Medical/Infectious Waste Incinerators), 40 CFR 60, Subpart Ce, 40 CFR 60, Subpart Ec, and 326 IAC 2-7 (Part 70).

Conclusion

The operation of this hospital shall be subject to the conditions of this Part 70 permit T083-18224-00027

Appendix A: Emission Calculations
Emissions from Medical Waste Incinerator

Company Name: Good Samaritan Hospital
 Address: 520 South Seventh Street, Vincennes, Indiana 47591
 Permit Number: 083-18224-00027
 Reviewer: ERG/ST
 Date: July 11, 2006

THROUGHPUT (lbs/hour) 499

THROUGHPUT (tons/year) 2186

1. Uncontrolled Potential to Emit

	POLLUTANT												
	PM	PM10 **	SO ₂	CO	VOC	NOx	HCl	PCBs	HAP Metals**	HFI	Cl	CDF ***	CDD ***
Emission Factor (lbs/ton)	4.67	3.04	2.17	2.95	0.30	3.56	33.5	4.7E-05	0.20	0.149	0.105	7.2E-05	2.1E-05
Potential to Emit (tons/year)	5.10	3.32	2.37	3.22	0.33	3.89	36.6	5.1E-05	0.22	0.16	0.11	7.8E-05	2.3E-05

2. Controlled Potential to Emit

	POLLUTANT												
	PM	PM10	SO ₂	CO	VOC	NOx	HCl	PCBs	HAP Metals**	HFI	Cl	CDF ***	CDD ***
Emission Factor (lbs/ton)	2.90	2.90	2.09	2.95	0.14	3.56	1.00	4.7E-05	0.12	0.149	0.105	4.9E-06	1.8E-06
Potential to Emit (tons/year)	3.17	3.17	2.28	3.22	0.15	3.89	1.09	5.1E-05	0.13	0.16	0.11	5.4E-06	2.0E-06

* For uncontrolled PTE, PM10 emissions are 65% of PM emissions (AP 42 Chapter 2.3, Table 2.3-15)

** HAP metals include Antimony, Arsenic, Beryllium, Cadmium, Chromium, Lead, Manganese, Mercury, and Nickel.

*** CDF and CDD are Chlorinated Dibenzo Furans and Chlorinated Dibenzo P-Dioxins

Emission factors are from AP 42 Chapter 2.3 Medical Waste Incineration, Tables 2.3-1 through 2.3-15 (7/93). Control is with low energy wet scrubber.

Methodology

Throughput (tons/year) = Throughput (lbs/hour) x 8760 hours/year x 1 ton/2,000 lbs

Potential to Emit (tons/year) = Throughput (tons/year) x Emission factor (lbs/ton) x 1 ton/2,000 lbs

**Appendix A: Emission Calculations
Natural Gas Fired Boilers and Incinerator**

Company Name: Good Samaritan Hospital
 Address: 520 South Seventh Street, Vincennes, Indiana 47591
 Permit Number: 083-18224-00027
 Reviewer: ERG/ST
 Date: July 11, 2006

Emission Unit ID	Heat Input Capacity (MMBtu/hr)	Maximum Potential Throughput (MMCF/yr)
EU1	4.8	41.2
EU2	46	395
EU3	46	395

Emission Factors (lbs/MMCF)						
PM*	PM10*	SO ₂	NO _x **	CO	VOC	HAPs
1.9	7.6	0.6	100	84.0	5.5	1.89

Potential To Emit (tons/yr)							
Emission Unit ID	PM	PM10	SO ₂	NO _x	CO	VOC	HAPs
EU1	0.04	0.16	0.01	2.06	1.73	0.11	0.04
EU2	0.38	1.50	0.12	19.8	16.6	1.09	0.37
EU3	0.38	1.50	0.12	19.8	16.6	1.09	0.37

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

**Emission factor for NO_x: Uncontrolled = 100 lb/MMCF

Emission factors are from AP-42, Chapter 1.4 - Natural Gas Combustion, Tables 1.4-1, 1.4-2, 1.4-3 and 1.4-4. SCC #1-02-006-02, 1-01-006-02, 1-03-006-02, and 1-03-006-03. (AP-42 Supplement D 7/98)

1 MMBtu = 1,000,000 Btu

1 MMCF = 1,000,000 cubic feet of gas

All emission factors are based on normal firing.

Methodology

Max. Potential Throughput (MMCF/year) = Heat Input Capacity (MMBtu/hour) x 8,760 hours/year x 1 MMCF/1,020 MMBtu

PTE (tons/year) = Max. Potential Throughput (MMCF/year) x Emission Factor (lbs/MMCF) x 1 ton/2,000 lbs

**Appendix A: Emission Calculations
Boilers Burning #2 Fuel Oil**

Company Name: Good Samaritan Hospital
 Address: 520 South Seventh Street, Vincennes, Indiana 47591
 Permit Number: 083-18224-00027
 Reviewer: ERG/ST
 Date: July 11, 2006

Pollutant Emission Factor (lbs/MMBtu)							
PM	PM10	SO ₂	NOx	VOC	CO	Organic HAPs	Metal HAPs
0.014	0.024	0.30	0.14	0.004	0.036	2.91E-04	3.51E-03

Emission Unit ID	Max. Heat Input Capacity (MMBtu/hr)	Potential to Emit (tons/year)							
		PM	PM10	SO ₂	NOx	VOC	CO	Organic HAPs	Metal HAPs
EU2	46.0	2.88	4.75	61.3	28.8	0.80	7.20	0.059	0.7066
EU3	46.0	2.88	4.75	61.3	28.8	0.80	7.20	0.059	0.7066
Totals		5.76	9.50	123	57.6	1.60	14.4	0.12	1.413

PM10 includes both condensable and filterable fractions.

The weight % content of sulfur in the fuel oil is 0.3%

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

Emission factor for SO₂: 142.0 lbs/kgal x weight percent Sulfur (0.3) x 1,000 gals oil/140,000,000 Btu x 1,000,000 Btu/MMBtu

Emission factors are from AP 42, Chapter 1.3, Tables 1.3-1, 1.3-2, 1.3-3, 1.3-9 and 1.3-10 (SCC 1-02-005-02/03, 1-03-005-01/02/03) (9/98).

HAP metals include antimony, arsenic, beryllium, cadmium, chromium, cobalt, flouride, lead, manganese, nickel, and selenium.

Methodology

Emission factor (lbs/MMBtu) = Emission factor (lbs/1,000 gals oil) x 1,000 gals oil/140,000,000 Btu x 1,000,000 Btu/MMBtu

Potential to Emit (tons/year) = Maximum Heat Input Capacity (MMBtu/hour) x Emission factor (lbs/MMBtu) x 8760 (hours/year) x 1 ton/2,000 lbs

**Appendix A: Emission Calculations
Internal Combustion Engines - Diesel Generators**

Company Name: Good Samaritan Hospital
 Address: 520 South Seventh Street, Vincennes, Indiana 47591
 Title V: 083-18224-00027
 Reviewer: ERG/ST
 Date: July 11, 2006

Emission Unit ID	Power Output			Operation Limit	
	Kilowatts (kW)	(MMBtu/hour)	Horsepower (hp)	(hours/year)	(gallons/year)
GEN1	450	1.54	603	1000	11,215
GEN2	420	1.43	563	1000	10,468
GEN3	420	1.43	563	1000	10,468
GEN4	370	1.26	496	1000	9,221
EG5	80	0.27	107	500	997

S = Weight % Sulfur
0.5

Pollutant Emission Factors								
		PM	PM10	SO ₂	NO _x	VOC*	CO	HAPs
Emission Factor (lbs/MMBtu)	(< 600 hp)	0.31	0.31	0.29	4.41	0.36	0.95	6.4E-03
Emission Factor (lbs/MMBtu)	(> 600 hp)	0.062	0.057	0.51	3.20	0.09	0.85	4.3E-03

Potential to Emit (tons/year)								
Emission Unit ID		PM	PM10	SO ₂	NO _x	VOC*	CO	HAPs
GEN1		0.42	0.39	3.40	21.5	0.61	5.72	2.9E-02
GEN2		1.95	1.95	1.82	27.7	2.26	5.97	4.0E-02
GEN3		1.95	1.95	1.82	27.7	2.26	5.97	4.0E-02
GEN4		1.72	1.72	1.61	24.4	1.99	5.26	3.5E-02
EG5		0.37	0.37	0.35	5.3	0.43	1.14	7.6E-03

Limited Potential to Emit (tons/year)								
Emission Unit ID		PM	PM10	SO ₂	NO _x	VOC*	CO	HAPs
GEN1		0.05	0.04	0.39	2.46	0.07	0.65	3.3E-03
GEN2		0.22	0.22	0.21	3.16	0.26	0.68	4.6E-03
GEN3		0.22	0.22	0.21	3.16	0.26	0.68	4.6E-03
GEN4		0.20	0.20	0.18	2.79	0.23	0.60	4.0E-03
EG5		0.02	0.02	0.02	0.30	0.02	0.06	4.4E-04
Totals		0.71	0.71	1.01	11.9	0.84	2.68	0.017

For diesel fueled engines with power rating less than 600 horsepower, assume PM10 emissions are equal to PM emissions.

* Assume TOC (total organic compounds) emissions are equal to VOC emissions.

Diesel fuel has a heat value of 19,300 Btu per pound and a density of 7.1 pounds per gallon.

Emission factors for diesel fueled engines with a power rating greater than 600 horsepower are from AP-42, Tables 3.4-1, 3.4-2, 3.4-3, and 3.4-4 SCC 2-02-004-01 (AP-42, 10/96)

Emission factors for diesel fueled engines with a power rating less than 600 horsepower are from AP-42, Tables 3.3-1 and 3.3-2, SCC 2-02-001-02, 2-03-001-01 (AP-42, 10/96).

Methodology

Operation Limit (gallons/year) = Hours of Operation (hours/year) x 1 gal/ 7.1 lbs fuel x 1 lb fuel/ 19,300 Btu x 1,000,000 Btu/MMBtu x Power Output (MMBtu/hr)

Potential to Emit (tons/year) = Power Output (MMBtu/hour) x Emission Factor (lbs/MMBtu) x 8760 hours/year x 1 ton/2000 lb:

Limited Potential to Emit (tons/year) = Power Output (MMBtu/hour) x Emission Factor (lbs/MMBtu) x Operation Limit (hours/year) x 1 ton/2000 lb:

Note: As defined in the September 6, 1995 memorandum from John S. Seitz of US EPA on the subject of "Calculating Potential to Emit for Emergency Generators", an emergency generator's sole function is to provide back-up power when power from the local utility is interrupted. The only circumstances under which an emergency generator would operate when utility power is available are during operator training or brief maintenance checks. The generator's potential to emit is based on an operating time of 500 hours per year as set forth in the EPA memo.