



# INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

*We Protect Hoosiers and Our Environment.*

*Mitchell E. Daniels Jr.*  
Governor

*Thomas W. Easterly*  
Commissioner

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

TO: Interested Parties / Applicant

DATE: March 26, 2009

RE: Dunn Memorial Hospital / 093-27262-00015

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

## Notice of Decision: Approval - Effective Immediately

Please be advised that on behalf of the Commissioner of the Department of Environmental Management, I have issued a decision regarding the enclosed matter. Pursuant to IC 13-15-5-3, this permit is effective immediately, unless a petition for stay of effectiveness is filed and granted according to IC 13-15-6-3, and may be revoked or modified in accordance with the provisions of IC 13-15-7-1.

If you wish to challenge this decision, IC 4-21.5-3 and IC 13-15-6-1 require that you file a petition for administrative review. This petition may include a request for stay of effectiveness and must be submitted to the Office of Environmental Adjudication, 100 North Senate Avenue, Government Center North, Suite N 501E, Indianapolis, IN 46204, **within eighteen (18) calendar days of the mailing of this notice**. The filing of a petition for administrative review is complete on the earliest of the following dates that apply to the filing:

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

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

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

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

Enclosures  
FNPER.dot12/03/07



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## Minor Source Operating Permit Renewal OFFICE OF AIR QUALITY

**Dunn Memorial Hospital  
1600 23rd Street  
Bedford, Indiana 47421**

(herein known as the Permittee) is hereby authorized to operate subject to the conditions contained herein, the source described in Section A (Source Summary) of this permit.

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

Indiana statutes from IC 13 and rules from 326 IAC, quoted in conditions in this permit, are those applicable at the time the permit was issued. The issuance or possession of this permit shall not alone constitute a defense against an alleged violation of any law, regulation or standard, except for the requirement to obtain a MSOP under 326 IAC 2-6.1.

Operation Permit No.: M093-27262-00015	
Issued by:  Alfred C. Dumauval, Ph. D., Section Chief Permits Branch Office of Air Quality	Issuance Date: March 26, 2009  Expiration Date: March 26, 2019

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## SECTION A SOURCE SUMMARY

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

### A.1 General Information [326 IAC 2-5.1-3(c)][326 IAC 2-6.1-4(a)]

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The Permittee owns and operates a stationary general medical hospital.

Source Address:	1600 23rd Street, Bedford, Indiana 47421
Mailing Address:	1600 23rd Street, Bedford, IN 47421
General Source Phone Number:	1-812-275-3331
SIC Code:	8062
County Location:	Lawrence
Source Location Status:	Attainment for all criteria pollutants
Source Status:	Minor Source Operating Permit Program Minor Source, under PSD and Emission Offset Rules Minor Source, Section 112 of the Clean Air Act Not 1 of 28 Source Categories

### A.2 Emission Units and Pollution Control Equipment Summary

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

- (a) One (1) natural gas fired boiler, using No. 2 distillate fuel oil as backup fuel, identified as BLR3, with a maximum capacity of 3.6 million British thermal units per hour, installed in 1996, and exhausting to Stack BLR3.
- (b) One (1) natural gas fired boiler, using No. 2 distillate fuel oil as backup fuel, identified as BLR1, with a maximum capacity of 9 million British thermal units per hour, installed in 1986, and exhausting to Stack BLR1.
- (c) One (1) natural gas fired boiler, using No. 2 distillate fuel oil as backup fuel, identified as BLR2, with a maximum capacity of 9 million British thermal units per hour, installed in 1986, and exhausting to Stack BLR2.
- (d) One (1) 288.3-horsepower No. 2 distillate fuel oil fired emergency generator, identified as Generator 1, with a maximum heat input capacity of 0.73 million British thermal units per hour, installed in 1978, and exhausting to Generator 1 stack.
- (e) One (1) 804.6-horsepower No. 2 distillate fuel oil fired emergency generator, identified as Generator 2, with a maximum heat input capacity of 2.05 million British thermal units per hour, installed in 1996, and exhausting to Generator 2 stack.
- (f) One (1) 40.23-horsepower natural gas fired emergency generator, identified as Generator 3, with a maximum heat input capacity of 0.10 million British thermal units per hour, installed in 1985, and exhausting to Generator 3 stack.
- (g) One (1) 134.1-horsepower natural gas fired emergency generator, identified as Generator 4, with a maximum heat input capacity of 0.34 million British thermal units per hour, installed in 1994, and exhausting to Generator 4 stack.

- (h) One (1) 134.1-horsepower natural gas fired emergency generator, identified as Generator 5, with a maximum heat input capacity of 0.34 million British thermal units per hour, installed in 1994, and exhausting to Generator 5 stack.
- (i) One (1) diesel fuel oil tank, constructed in 1991, capacity: 1,000 gallons.

## **SECTION B GENERAL CONDITIONS**

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

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Terms in this permit shall have the definition assigned to such terms in the referenced regulation. In the absence of definitions in the referenced regulation, the applicable definitions found in the statutes or regulations (IC 13-11, 326 IAC 1-2 and 326 IAC 2-1.1-1) shall prevail.

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

---

- (a) This permit, M093-27262-00015, is issued for a fixed term of ten (10) years from the issuance date of this permit, as determined in accordance with IC 4-21.5-3-5(f) and IC 13-15-5-3. Subsequent revisions, modifications, or amendments of this permit do not affect the expiration date of this permit.
- (b) If IDEM, OAQ, upon receiving a timely and complete renewal permit application, fails to issue or deny the permit renewal prior to the expiration date of this permit, this existing permit shall not expire and all terms and conditions shall continue in effect, until the renewal permit has been issued or denied.

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

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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**

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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**

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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**

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

### **B.7 Duty to Provide Information**

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

#### B.8 Certification

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

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

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- (a) An annual notification shall be submitted by an authorized individual to the Office of Air Quality stating whether or not the source is in operation and in compliance with the terms and conditions contained in this permit.
- (b) The annual notice shall be submitted in the format attached no later than March 1 of each year to:  
  
Indiana Department of Environmental Management  
Compliance and Enforcement Branch, Office of Air Quality  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251
- (c) The notification shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ on or before the date it is due.

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

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

- (c) To the extent the Permittee is required by 40 CFR Part 60/63 to have an Operation Maintenance, and Monitoring (OMM) Plan for a unit, such Plan is deemed to satisfy the PMP requirements of 326 IAC 1-6-3 for that unit.

**B.11 Prior Permits Superseded [326 IAC 2-1.1-9.5]**

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- (a) All terms and conditions of permits established prior to M093-27262-00015 and issued pursuant to permitting programs approved into the state implementation plan have been either:
  - (1) incorporated as originally stated,
  - (2) revised, or
  - (3) deleted.
- (b) All previous registrations and permits are superseded by this permit.

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

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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 one hundred twenty (120) days prior to the date of expiration of the source's existing permit, consistent with 326 IAC 2-6.1-7.

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

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- (a) The application for renewal shall be submitted using the application form or forms prescribed by IDEM, OAQ and shall include the information specified in 326 IAC 2-6.1-7. Such information shall be included in the application for each emission unit at this source. The renewal application does require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

Request for renewal shall be submitted to:

Indiana Department of Environmental Management  
Permit Administration and Support Section, Office of Air Quality  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251

- (b) A timely renewal application is one that is:
  - (1) Submitted at least one hundred twenty (120) days prior to the date of the expiration of this permit; and
  - (2) If the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ on or before the date it is due.
- (c) If the Permittee submits a timely and complete application for renewal of this permit, the source's failure to have a permit is not a violation of 326 IAC 2-6.1 until IDEM, OAQ takes final action on the renewal application, except that this protection shall cease to apply if, subsequent to the completeness determination, the Permittee fails to submit by the deadline specified in writing by IDEM, OAQ any additional information identified as being needed to process the application.

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

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

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

Indiana Department of Environmental Management  
Permit Administration and Support Section, Office of Air Quality  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251

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

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

**B.15 Source Modification Requirement**

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

**B.16 Inspection and Entry**

[326 IAC 2-5.1-3(e)(4)(B)][326 IAC 2-6.1-5(a)(4)][IC 13-14-2-2][IC 13-17-3-2][IC 13-30-3-1]

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

(a) Enter upon the Permittee's premises where a permitted source is located, or emissions related activity is conducted, or where records must be kept under the conditions of this permit;

(b) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;

(c) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, inspect, at reasonable times, any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit;

(d) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with this permit or applicable requirements; and

(e) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, utilize any photographic, recording, testing, monitoring, or other equipment for the purpose of assuring compliance with this permit or applicable requirements.

**B.17 Transfer of Ownership or Operational Control [326 IAC 2-6.1-6]**

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

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

Indiana Department of Environmental Management  
Permit Administration and Support Section, Office of Air Quality  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251

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

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

**B.18 Annual Fee Payment [326 IAC 2-1.1-7]**

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- (a) The Permittee shall pay annual fees due within thirty (30) calendar days of receipt of a bill from IDEM, OAQ,.
- (b) The Permittee may call the following telephone numbers: 1-800-451-6027 or 317-233-4230 (ask for OAQ, Billing, Licensing, and Training Section), to determine the appropriate permit fee.

**B.19 Credible Evidence [326 IAC 1-1-6]**

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

## SECTION C SOURCE OPERATION CONDITIONS

Entire Source

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

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

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

C.2 Permit Revocation [326 IAC 2-1.1-9]

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

- (a) Violation of any conditions of this permit.
- (b) Failure to disclose all the relevant facts, or misrepresentation in obtaining this permit.
- (c) Changes in regulatory requirements that mandate either a temporary or permanent reduction of discharge of contaminants. However, the amendment of appropriate sections of this permit shall not require revocation of this permit.
- (d) Noncompliance with orders issued pursuant to 326 IAC 1-5 (Episode Alert Levels) to reduce emissions during an air pollution episode.
- (e) For any cause which establishes in the judgment of IDEM, the fact that continuance of this permit is not consistent with purposes of this article.

C.3 Opacity [326 IAC 5-1]

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

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

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

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

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

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

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

---

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

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

---

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

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

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

All required notifications shall be submitted to:

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

The notice shall include a signed certification from the owner or operator that the information provided in this notification is correct and that only Indiana licensed workers and project supervisors will be used to implement the asbestos removal project. The notifications do not require a certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

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

### **Testing Requirements [326 IAC 2-6.1-5(a)(2)]**

#### **C.9 Performance Testing [326 IAC 3-6]**

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- (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 and Enforcement Branch, Office of Air Quality  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251

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

- (b) The Permittee shall notify IDEM, OAQ of the actual test date at least fourteen (14) days prior to the actual test date. The notification submitted by the Permittee does not require certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (c) Pursuant to 326 IAC 3-6-4(b), all test reports must be received by IDEM, OAQ not later than forty-five (45) days after the completion of the testing. An extension may be granted by IDEM, OAQ if the Permittee submits to IDEM, OAQ a reasonable written explanation not later than five (5) days prior to the end of the initial forty-five (45) day period.

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

#### **C.10 Compliance Requirements [326 IAC 2-1.1-11]**

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

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

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

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

### **C.12 Monitoring Methods [326 IAC 3] [40 CFR 60] [40 CFR 63]**

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

### **C.13 Instrument Specifications [326 IAC 2-1.1-11]**

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

## **Corrective Actions and Response Steps**

### **C.14 Response to Excursions or Exceedances**

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

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

**C.15 Actions Related to Noncompliance Demonstrated by a Stack Test**

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

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

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

**C.16 Malfunctions Report [326 IAC 1-6-2]**

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

- (a) A record of all malfunctions, including startups or shutdowns of any facility or emission control equipment, which result in violations of applicable air pollution control regulations or applicable emission limitations shall be kept and retained for a period of three (3) years and shall be made available to the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ) or appointed representative upon request.
- (b) When a malfunction of any facility or emission control equipment occurs which lasts more than one (1) hour, said condition shall be reported to OAQ, using the Malfunction Report Forms (2 pages). Notification shall be made by telephone or facsimile, as soon as practicable, but in no event later than four (4) daytime business hours after the beginning of said occurrence.
- (c) Failure to report a malfunction of any emission control equipment shall constitute a violation of 326 IAC 1-6, and any other applicable rules. Information of the scope and expected duration of the malfunction shall be provided, including the items specified in 326 IAC 1-6-2(a)(1) through (6).

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

**C.17 General Record Keeping Requirements [326 IAC 2-6.1-5]**

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

**C.18 General Reporting Requirements [326 IAC 2-1.1-11] [326 IAC 2-6.1-2] [IC 13-14-1-13]**

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- (a) Reports required by conditions in Section D of this permit shall be submitted to:  
  
Indiana Department of Environmental Management  
Compliance and Enforcement Branch, Office of Air Quality  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251
- (b) Unless otherwise specified in this permit, any notice, report, or other submission required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ on or before the date it is due.
- (c) Unless otherwise specified in this permit, all reports required in Section D of this permit shall be submitted within thirty (30) days of the end of the reporting period. All reports do require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (d) Reporting periods are based on calendar years, unless otherwise specified in this permit. For the purpose of this permit "calendar year" means the twelve (12) month period from January 1 to December 31 inclusive.

## SECTION D.1 EMISSIONS UNIT OPERATION CONDITIONS

### Emissions Unit Description:

- (a) One (1) natural gas fired boiler, using No. 2 distillate fuel oil as backup fuel, identified as BLR3, with a maximum capacity of 3.6 million British thermal units per hour, installed in 1996, and exhausting to Stack BLR3.
- (b) One (1) natural gas fired boiler, using No. 2 distillate fuel oil as backup fuel, identified as BLR1, with a maximum capacity of 9 million British thermal units per hour, installed in 1986, and exhausting to Stack BLR1.
- (c) One (1) natural gas fired boiler, using No. 2 distillate fuel oil as backup fuel, identified as BLR2, with a maximum capacity of 9 million British thermal units per hour, installed in 1986, and exhausting to Stack BLR2.

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

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

#### D.1.1 Preventive Maintenance Plan [326 IAC 1-6-3]

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for the two (2) boilers BLR1 and BLR2.

#### D.1.2 Particulate Emissions [326 IAC 6-2-4]

- (a) Pursuant to 326 IAC 6-2-4 (Particulate Emission Limitations for Sources of Indirect Heating) the PM emissions from the two (2) boilers, identified as BLR1 and BLR2, each rated at 9 million British thermal units per hour shall be limited to 0.51 pounds per million British thermal units heat input.

This limitation is based on the following equation:

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

where:

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

Q = Total source maximum operating capacity rating in million British thermal units per hour (MMBtu/hr) heat input. The maximum operating capacity rating is defined as the maximum capacity at which the facility is operated or the nameplate capacity, whichever is specified in the facility's permit application, except when some lower capacity is contained in the facility's operation permit; in which case, the capacity specified in the operation permit shall be used. (Q = 18 million British thermal units per hour)

- (b) Pursuant to 326 IAC 6-2-4 (Particulate Emission Limitations for Sources of Indirect Heating) the PM emissions from the one (1) boiler, identified as BLR3, rated at 3.6 million British thermal units per hour, shall be limited to 0.49 pounds per million British thermal units heat input.

This limitation was computed using the following equation:

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

where:

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

Q = Total source maximum operating capacity rating in million British thermal units per hour (MMBtu/hr) heat input. The maximum operating capacity rating is defined as the maximum capacity at which the facility is operated or the nameplate capacity, whichever is specified in the facility's permit application, except when some lower capacity is contained in the facility's operation permit; in which case, the capacity specified in the operation permit shall be used. (Q = 21.6 million British thermal units per hour)

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

#### **D.1.3 Visible Emissions Notations**

---

- (a) Visible emission notations of the boilers (BLR1, BLR2, and BLR3) stack exhausts shall be performed once per day during normal daylight operations when burning 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 2-6.1-5(a)(2)]**

#### **D.1.4 Record Keeping Requirements**

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In order to avoid being subject to 326 IAC 7-1.1-1, the Permittee shall document sulfur content of No. 2 fuel oil, and shall keep the following records:

- (1) Fuel supplier certifications;
- (2) The name of the fuel supplier; and
- (3) 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.

- (b) To document compliance with Condition D.1.3, the Permittee shall maintain daily records of visible emission notations of each boiler stack exhaust. The Permittee shall include in its daily record when a visible emission notation is not taken and the reason for the lack of visible emission notation (e.g., the process did not operate that day, or fuel oil was not used).
- (c) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit

## SECTION E.1

## EMISSIONS UNIT OPERATION CONDITIONS

### Emissions Unit Description:

- (d) One (1) 288.3-horsepower No. 2 distillate fuel oil fired emergency generator, identified as Generator 1, with a maximum heat input capacity of 0.73 million British thermal units per hour, installed in 1978, and exhausting to Generator 1 stack.
- (e) One (1) 804.6-horsepower No. 2 distillate fuel oil fired emergency generator, identified as Generator 2, with a maximum heat input capacity of 2.05 million British thermal units per hour, installed in 1996, and exhausting to Generator 2 stack.
- (f) One (1) 40.23-horsepower natural gas fired emergency generator, identified as Generator 3, with a maximum heat input capacity of 0.10 million British thermal units per hour, installed in 1985, and exhausting to Generator 3 stack.
- (g) One (1) 134.1-horsepower natural gas fired emergency generator, identified as Generator 4, with a maximum heat input capacity of 0.34 million British thermal units per hour, installed in 1994, and exhausting to Generator 4 stack.
- (h) One (1) 134.1-horsepower natural gas fired emergency generator, identified as Generator 5, with a maximum heat input capacity of 0.34 million British thermal units per hour, installed in 1994, and exhausting to Generator 5 stack.

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

### E.1 Reciprocating Internal Combustion Engines NESHAP [40 CFR Part 63, Subpart ZZZZ] [326 IAC 20-82]

The Permittee shall comply with the following provisions of 40 CFR Part 63, Subpart ZZZZ, which are incorporated by reference as 326 IAC 20-82, except as otherwise specified in 40 CFR Part 63, Subpart ZZZZ:

- (a) 40 CFR 63.6580
- (b) 40 CFR 63.6585
- (c) 40 CFR 63.6590(a)(1)(iii)
- (d) 40 CFR 63.6590(b)(3)

Subpart ZZZZ—National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines

### § 63.6580 What is the purpose of subpart ZZZZ?

Subpart ZZZZ establishes national emission limitations and operating limitations for hazardous air pollutants (HAP) emitted from stationary reciprocating internal combustion engines (RICE) located at major and area sources of HAP emissions. This subpart also establishes requirements to demonstrate initial and continuous compliance with the emission limitations and operating limitations.

[73 FR 3603, Jan. 18, 2008]

**§ 63.6585 Am I subject to this subpart?**

You are subject to this subpart if you own or operate a stationary RICE at a major or area source of HAP emissions, except if the stationary RICE is being tested at a stationary RICE test cell/stand.

- (a) A stationary RICE is any internal combustion engine which uses reciprocating motion to convert heat energy into mechanical work and which is not mobile. Stationary RICE differ from mobile RICE in that a stationary RICE is not a non-road engine as defined at 40 CFR 1068.30, and is not used to propel a motor vehicle or a vehicle used solely for competition.
- (b) A major source of HAP emissions is a plant site that emits or has the potential to emit any single HAP at a rate of 10 tons (9.07 megagrams) or more per year or any combination of HAP at a rate of 25 tons (22.68 megagrams) or more per year, except that for oil and gas production facilities, a major source of HAP emissions is determined for each surface site.
- (c) An area source of HAP emissions is a source that is not a major source.
- (d) If you are an owner or operator of an area source subject to this subpart, your status as an entity subject to a standard or other requirements under this subpart does not subject you to the obligation to obtain a permit under 40 CFR part 70 or 71, provided you are not required to obtain a permit under 40 CFR 70.3(a) or 40 CFR 71.3(a) for a reason other than your status as an area source under this subpart. Notwithstanding the previous sentence, you must continue to comply with the provisions of this subpart as applicable.
- (e) If you are an owner or operator of a stationary RICE used for national security purposes, you may be eligible to request an exemption from the requirements of this subpart as described in 40 CFR part 1068, subpart C.

[69 FR 33506, June 15, 2004, as amended at 73 FR 3603, Jan. 18, 2008]

**§ 63.6590 What parts of my plant does this subpart cover?**

This subpart applies to each affected source.

(a) *Affected source.* An affected source is any existing, new, or reconstructed stationary RICE located at a major or area source of HAP emissions, excluding stationary RICE being tested at a stationary RICE test cell/stand.

(1) *Existing stationary RICE.*

...

(iii) For stationary RICE located at an area source of HAP emissions, a stationary RICE is existing if you commenced construction or reconstruction of the stationary RICE before June 12, 2006.

...

(b) *Stationary RICE subject to limited requirements.* (1) An affected source which meets either of the criteria in paragraph (b)(1)(i) through (ii) of this section does not have to meet the requirements of this subpart and of subpart A of this part except for the initial notification requirements of §63.6645(h).

...

- (3) A stationary RICE which is an existing spark ignition 4 stroke rich burn (4SRB) stationary RICE located at an area source, an existing spark ignition 4SRB stationary RICE with a site rating of less than or equal to 500 brake HP located at a major source, an existing spark ignition 2 stroke lean burn (2SLB) stationary RICE, an existing spark ignition 4 stroke lean burn (4SLB) stationary RICE, an existing compression ignition (CI) stationary RICE, an existing emergency stationary RICE, an existing limited use stationary RICE, or an existing stationary RICE that combusts landfill gas or digester gas equivalent to 10 percent or more of the gross heat input on an annual basis, does not have to meet the requirements of this subpart and of subpart A of this part. No initial notification is necessary.

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

**MINOR SOURCE OPERATING PERMIT (MSOP)  
CERTIFICATION**

Source Name: Dunn Memorial Hospital  
Source Address: 1600 23rd Street, Bedford, Indiana 47421  
Mailing Address: 1600 23rd Street, Bedford, IN 47421  
MSOP No.: M093-27262-00015

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

Please check what document is being certified:

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

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

Signature:

Printed Name:

Title/Position:

Date:

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF AIR QUALITY  
COMPLIANCE AND ENFORCEMENT BRANCH**

**MINOR SOURCE OPERATING PERMIT  
ANNUAL NOTIFICATION**

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

<b>Company Name:</b>	Dunn Memorial Hospital
<b>Address:</b>	1600 23rd Street
<b>City:</b>	Bedford, Indiana 47421
<b>Phone #:</b>	1-812-275-3331
<b>MSOP #:</b>	M093-27262-00015

I hereby certify that Dunn Memorial Hospital is :

still in operation.

no longer in operation.

I hereby certify that Dunn Memorial Hospital is :

in compliance with the requirements of MSOP M093-27262-00015.

not in compliance with the requirements of MSOP M093-27262-00015.

<b>Authorized Individual (typed):</b>
<b>Title:</b>
<b>Signature:</b>
<b>Date:</b>

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

<b>Noncompliance:</b>

### MALFUNCTION REPORT

#### INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT OFFICE OF AIR QUALITY FAX NUMBER: (317) 233-6865

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

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

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

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

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

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

DATE/TIME MALFUNCTION STARTED: \_\_\_\_/\_\_\_\_/20\_\_\_\_    \_\_\_\_\_ AM / PM

ESTIMATED HOURS OF OPERATION WITH MALFUNCTION CONDITION: \_\_\_\_\_

DATE/TIME CONTROL EQUIPMENT BACK-IN SERVICE \_\_\_\_/\_\_\_\_/20\_\_\_\_    \_\_\_\_\_ AM/PM

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

ESTIMATED AMOUNT OF POLLUTANT EMITTED DURING MALFUNCTION: \_\_\_\_\_

MEASURES TAKEN TO MINIMIZE EMISSIONS: \_\_\_\_\_

REASONS WHY FACILITY CANNOT BE SHUTDOWN DURING REPAIRS:

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

MALFUNCTION REPORTED BY: \_\_\_\_\_ TITLE: \_\_\_\_\_  
(SIGNATURE IF FAXED)

MALFUNCTION RECORDED BY: \_\_\_\_\_ DATE: \_\_\_\_\_ TIME: \_\_\_\_\_

\*SEE PAGE 2

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

**326 IAC 1-6-1 Applicability of rule**

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

**326 IAC 1-2-39 "Malfunction" definition**

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

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

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

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

Addendum to the Technical Support Document (ATSD) for a  
Minor Source Operating Permit Renewal

**Source Background and Description**

<b>Source Name:</b>	<b>Dunn Memorial Hospital</b>
<b>Source Location:</b>	<b>1600 23rd Street, Bedford, Indiana 47421</b>
<b>County:</b>	<b>Lawrence</b>
<b>SIC Code:</b>	<b>8062</b>
<b>Operation Permit No.:</b>	<b>M093-27262-00015</b>
<b>Permit Reviewer:</b>	<b>Sarah Conner, Ph. D.</b>

On February 20, 2009, the Office of Air Quality (OAQ) had a notice published in The Times - Mail, Bedford, Indiana, stating that Dunn Memorial Hospital had applied for a renewal of their Minor Source Operating Permit (MSOP). The notice also stated that the OAQ proposed to issue a MSOP Renewal for this operation and provided information on how the public could review the proposed permit and other documentation. Finally, the notice informed interested parties that there was a period of thirty (30) days to provide comments on whether or not this permit should be issued as proposed.

**Comments and Responses**

No comments were received during the public notice period.

**Additional Changes**

IDEM, OAQ has decided to make revisions to the permit as described below, with deleted language as ~~strikeouts~~ and new language **bolded**.

- (a) Several of IDEM's Branches and sections have been renamed. Therefore, IDEM has updated the addresses listed in the permit. References to Permit Administration and Development Section and the Permits Branch have been changed to Permit Administration and Support Section. References to Asbestos Section, Compliance Data Section, Air Compliance Section, and Compliance Branch have been changed to Compliance and Enforcement Branch.

**Indiana Department of Environmental Management  
Permit Administration and Support Section, Office of Air Quality  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251**

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

<b>IDEM Contact</b>
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- (a) Questions regarding this proposed MSOP Renewal can be directed to Sarah Conner, Ph. D. at the Indiana Department Environmental Management, Office of Air Quality, Permits Branch, 100 North Senate Avenue, MC 61-53 IGCN 1003, Indianapolis, Indiana 46204-2251 or by telephone at (317) 234-6555 or toll free at 1-800-451-6027 extension 4-6555.
- (b) A copy of the permit is available on the Internet at: <http://www.in.gov/ai/appfiles/idem-caats/>
- (c) For additional information about air permits and how the public and interested parties can participate, refer to the IDEM's Guide for Citizen Participation and Permit Guide on the Internet at: [www.idem.in.gov](http://www.idem.in.gov)

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

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

**Source Background and Description**

<b>Source Name:</b>	<b>Dunn Memorial Hospital</b>
<b>Source Location:</b>	<b>1600 23rd Street, Bedford, IN 47421</b>
<b>County:</b>	<b>Lawrence</b>
<b>SIC Code:</b>	<b>8062</b>
<b>Permit Renewal No.:</b>	<b>M093-27262-00015</b>
<b>Permit Reviewer:</b>	<b>Sarah Conner, Ph. D.</b>

The Office of Air Quality (OAQ) has reviewed the minor source operating permit (MSOP) renewal application from Dunn Memorial Hospital relating to the operation of a general medical hospital.

**History**

On December 16, 2008, Dunn Memorial Hospital submitted an application to the OAQ requesting to renew its minor source operating permit (MSOP). Dunn Memorial Hospital was issued a MSOP M093-18827-00015 on July 28, 2004.

**Permitted Emission Units and Pollution Control Equipment**

- (a) One (1) natural gas fired boiler, using No. 2 distillate fuel oil as backup fuel, identified as BLR3, with a maximum capacity of 3.6 million British thermal units per hour, installed in 1996, and exhausting to Stack BLR3.
- (b) One (1) natural gas fired boiler, using No. 2 distillate fuel oil as backup fuel, identified as BLR1, with a maximum capacity of 9 million British thermal units per hour, installed in 1986, and exhausting to Stack BLR1.
- (c) One (1) natural gas fired boiler, using No. 2 distillate fuel oil as backup fuel, identified as BLR2, with a maximum capacity of 9 million British thermal units per hour, installed in 1986, and exhausting to Stack BLR2.
- (d) One (1) 288.3-horsepower No. 2 distillate fuel oil fired emergency generator, identified as Generator 1, with a maximum heat input capacity of 0.73 million British thermal units per hour, installed in 1978, and exhausting to Generator 1 stack.
- (e) One (1) 804.6-horsepower No. 2 distillate fuel oil fired emergency generator, identified as Generator 2, with a maximum heat input capacity of 2.05 million British thermal units per hour, installed in 1996, and exhausting to Generator 2 stack.
- (f) One (1) 40.23-horsepower natural gas fired emergency generator, identified as Generator 3, with a maximum heat input capacity of 0.10 million British thermal units per hour, installed in 1985, and exhausting to Generator 3 stack.
- (g) One (1) 134.1-horsepower natural gas fired emergency generator, identified as Generator 4, with a maximum heat input capacity of 0.34 million British thermal units per hour, installed in 1994, and exhausting to Generator 4 stack.

- (h) One (1) 134.1-horsepower natural gas fired emergency generator, identified as Generator 5, with a maximum heat input capacity of 0.34 million British thermal units per hour, installed in 1994, and exhausting to Generator 5 stack.
- (i) One (1) diesel fuel oil tank, constructed in 1991, capacity: 1,000 gallons.

### **Existing Approvals**

The source has been operating under MSOP M093-18827-00015 issued on July 28, 2004. There have been no other approvals since the issuance of MSOP M093-18827-00015.

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

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

- (a) All construction conditions from all previously issued permits.

Reason not incorporated: All facilities previously permitted have already been constructed; therefore, the construction conditions are no longer necessary as part of the operating permit. Any facilities that were previously permitted but have not yet been constructed would need new pre-construction approval before beginning construction.

- (b) Upon further review of the permit and the associated Technical Support Document, it was determined by OAQ that sulfur dioxide conditions are not necessary because none of the boilers are subject to 326 IAC 7-1.1-1. In addition, compliance monitoring is not required for either of these boilers, since the particulate matter emissions from each of the boilers do not warrant monitoring. Therefore, the requirements and conditions of Conditions D.1.2 through D.1.4 are not applicable to the source and the permit has been revised accordingly.

### **Enforcement Issue**

There are no enforcement actions pending.

### **Emission Calculations**

See Appendix A (pages 1-11) for detailed emission calculations.

### **County Attainment Status**

The source is located in Lawrence County

Pollutant	Designation
SO <sub>2</sub>	Better than national standards.
CO	Unclassifiable or attainment effective November 15, 1990.
O <sub>3</sub>	Unclassifiable or attainment effective June 15, 2004, for the 8-hour ozone standard. <sup>1</sup>
PM <sub>10</sub>	Unclassifiable effective November 15, 1990.
NO <sub>2</sub>	Cannot be classified or better than national standards.
Pb	Not designated.
<sup>1</sup> Unclassifiable or attainment effective October 18, 2000, for the 1-hour ozone standard which was revoked effective June 15, 2005. Unclassifiable or attainment effective April 5, 2005, for PM2.5.	

- (a) Ozone Standards
- (1) On October 25, 2006, the Indiana Air Pollution Control Board finalized a rule revision to 326 IAC 1-4-1 revoking the one-hour ozone standard in Indiana.
  - (2) On September 6, 2007, the Indiana Air Pollution Control Board finalized a temporary emergency rule to re-designate Allen, Clark, Elkhart, Floyd, LaPorte, and St. Joseph as attainment for the 8-hour ozone standard.
  - (3) On November 9, 2007, the Indiana Air Pollution Control Board finalized a temporary emergency rule to re-designate Boone, Clark, Elkhart, Floyd, LaPorte, Hamilton, Hancock, Hendricks, Johnson, Madison, Marion, Morgan, Shelby, and St. Joseph as attainment for the 8-hour ozone standard.
  - (4) Volatile organic compounds (VOC) and Nitrogen Oxides (NOx) are regulated under the Clean Air Act (CAA) for the purposes of attaining and maintaining the National Ambient Air Quality Standards (NAAQS) for ozone. Therefore, VOC and NOx emissions are considered when evaluating the rule applicability relating to ozone. Lawrence County has been designated as attainment or unclassifiable for ozone. Therefore, VOC and NOx emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.
- (b) PM2.5  
 Lawrence County has been classified as attainment for PM2.5. On May 8, 2008 U.S. EPA promulgated the requirements for Prevention of Significant Deterioration (PSD) for PM2.5 emissions, and the effective date of these rules was July 15<sup>th</sup>, 2008. Indiana has three years from the publication of these rules to revise its PSD rules, 326 IAC 2-2, to include those requirements. The May 8, 2008 rule revisions require IDEM to regulate PM10 emissions as a surrogate for PM2.5 emissions until 326 IAC 2-2 is revised.
- (c) Other Criteria Pollutants  
 Lawrence County has been classified as attainment or unclassifiable in Indiana for all other criteria pollutants. Therefore, these emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.
- (d) Fugitive Emissions  
 Since this type of operation is not one of the twenty-eight (28) listed source categories under 326 IAC 2-2 or 326 IAC 2-3, fugitive emissions are not counted toward the determination of PSD and Emission Offset applicability.

### Unrestricted Potential Emissions

This table reflects the unrestricted potential emissions of the source.

Pollutant	tons/year
PM	1.55
PM <sub>10</sub>	2.37
PM <sub>2.5</sub>	2.37
SO <sub>2</sub>	48.85
VOC	0.73
CO	9.95
NO <sub>x</sub>	19.58

HAPs	tons/year
Selenium	0.001
Benzene	0.002
Formaldehyde	0.011
Hexane	0.170
All other single HAPs	negligible
Total	0.191

- (a) The potential to emit (as defined in 326 IAC 2-7-1(29)) of all criteria pollutants is less than 100 tons per year. The source is not subject to the provisions of 326 IAC 2-7. Therefore, the source will be issued an MSOP
- (b) The potential to emit (as defined in 326 IAC 2-7-1(29)) of any single HAP is less than ten (10) tons per year and/or the potential to emit (as defined in 326 IAC 2-7-1(29)) of a combination of HAPs is less than twenty-five (25) tons per year.

Since this type of operation is not one of the twenty-eight (28) listed source categories under 326 IAC 2-7, fugitive emissions are not counted toward the determination of Part 70 applicability.

### Potential to Emit After Issuance

- (a) This existing stationary source is not major for PSD because the emissions of each criteria pollutant are less than two hundred fifty (<250) tons per year, and it is not one of the twenty-eight (28) listed source categories.
- (b) Fugitive Emissions  
Since this type of operation is not one of the twenty-eight (28) listed source categories under 326 IAC 2-2 or 326 IAC 2-3, fugitive emissions are not counted toward the determination of PSD and Emission Offset applicability.

### Federal Rule Applicability

- (a) The requirements of the New Source Performance Standards for Standards of Performance for Fossil-Fuel-Fired Steam Generators for Which Construction Is Commenced After August 17, 1971 (40 CFR 60.40, Subpart D, are not included in the permit for the three (3) boilers identified as BLR1, BLR2 and BLR3, because each boiler is rated at less than two hundred and fifty (250) MMBtu per hour.

- (b) The requirements of the New Source Performance Standards for Standards of Performance for Electric Utility Steam Generating Units for Which Construction is Commenced After September 18, 1978 (40 CFR 60.40Da, Subpart Da, are not included in the permit for the three (3) boilers identified as BLR1, BLR2 and BLR3, because each boiler is rated at less than two hundred and fifty (250) MMBtu per hour.
- (c) The requirements of the New Source Performance Standards for Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units (40 CFR 60.40b, Subpart Db, are not included in the permit for the three (3) boilers identified as BLR1, BLR2 and BLR3, because each boiler is rated at less than one hundred (100) MMBtu per hour.
- (d) The requirements of the New Source Performance Standard for Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units (40 CFR 60.40c, Subpart Dc, are not included in the permit for the one (1) boiler, identified as BLR3, because the boiler is rated at less than ten (10) MMBtu per hour.
- (e) The requirements of the New Source Performance Standard for Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units (40 CFR 60.40c, Subpart Dc, are not included in the permit for the two (2) boilers, identified as BLR1 and BLR2. Construction of these units commenced prior to June 9, 1989 and each of these boilers are rated at less than ten (10) MMBtu per hour.
- (f) The requirements of the New Source Performance Standard for Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced after July 23, 1984, 40 CFR 60.110b, Subpart Kb, are not included in the permit for the one (1) diesel fuel storage tank because it has a capacity less than seventy-five (75) cubic meters (19,800 gallons).
- (g) The requirements of the New Source Performance Standards for Standards of Performance for Stationary Compression Ignition Internal Combustion Engines (40 CFR 60.4200, Subpart IIII, are not included in the permit for the five (5) emergency generators, identified as Generator 1, Generator 2, Generator 3, Generator 4 and Generator 5. Construction of these units commenced prior to July 11, 2005.
- (h) The requirements of the New Source Performance Standards for Standards of Performance for Stationary Spark Ignition Internal Combustion Engines (40 CFR 60.4230, Subpart JJJJ, are not included in the permit for the five (5) emergency generators, identified as Generator 1, Generator 2, Generator 3, Generator 4 and Generator 5. Construction of these units commenced prior to June 12, 2006.
- (i) The five (5) emergency generators, identified as Generator 1, Generator 2, Generator 3, Generator 4 and Generator 5 are subject to the National Emission Standards for Hazardous Air Pollutants for National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (40 CFR 63.6580), Subpart ZZZZ.

The five (5) emergency generators, identified as Generator 1, Generator 2, Generator 3, Generator 4 and Generator 5 are subject to the following portions of Subpart ZZZZ.

- (1) 40 CFR 63.6580
- (2) 40 CFR 63.6585
- (3) 40 CFR 63.6590(a)(1)(iii)
- (4) 40 CFR 63.6590(b)(3)

The provisions of 40 CFR 63 Subpart A – General Provisions, which are incorporated as 326 IAC 20-1-1, apply to the facility described in this section except when otherwise specified in 40 CFR 63 Subpart ZZZZ.

### **State Rule Applicability - Entire Source**

#### 326 IAC 2-2 (Prevention of Significant Deterioration (PSD))

The potential uncontrolled emissions of all criteria pollutants are less than 250 tons per year. This source is also not one of the 28 listed source categories. Therefore, this source is not subject to the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)).

#### 326 IAC 2-4.1 (Major Sources of Hazardous Air Pollutants (HAP))

The source has uncontrolled potential emissions of less than 10 tons per year of single HAP and less than 25 tons per year of any combination of HAPs. Therefore, 326 IAC 2-4.1 does not apply.

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

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

#### 326 IAC 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.

### **State Rule Applicability – Individual Facilities**

#### Boilers and Generators

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

Pursuant to 326 IAC 6-2-4 (Particulate Matter Emission Limitations for Sources of Indirect Heating), indirect heating units constructed after September 21, 1983 shall be limited using the following equation:

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

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

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

For	Boilers BLR1 and BLR2 (both installed in 1986)	Q= 18 = 9 + 9
For	Boiler BLR3 (installed in 1996)	Q= 21.6 = 9 + 9 + 3.6
Boilers BLR1 and BLR2	$Pt = 1.09/(18)^{0.26} = 0.51$ lbs PM/MMBtu heat input	
Boiler BLR3	$Pt = (1.09)/(21.6)^{0.26} = 0.49$ lbs PM/MMBtu heat input	

Based on Appendix A, the potential to emit of PM from the three (3) boilers identified as BLR1, BLR2 and BLR3, all constructed after September 21, 1983, is 1.35 tons per year.

For BLR1 and BLR2	$1.13 \text{ tons/yr} \times (2000 \text{ lbs/ton} / 8760 \text{ hrs/yr}) = 0.26 \text{ lbs/hr}$ , each $(0.26 \text{ lbs/hr} / 18 \text{ MMBtu/hr}) = 0.014 \text{ lbs PM per MMBtu}$ , each
For BLR3	$0.23 \text{ tons/yr} \times (2000 \text{ lbs/ton} / 8760 \text{ hrs/yr}) = 0.053 \text{ lbs/hr}$ $(0.053 \text{ lbs/hr} / 3.6 \text{ MMBtu/hr}) = 0.015 \text{ lbs PM per MMBtu}$

Therefore, the three (3) boilers, identified as BLR1, BLR2, and BLR3 will comply with this rule.

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

The boilers, identified as BLR1, BLR2, and BLR3, and the emergency generators, identified as Generators 1-5, are each exempt from the requirements of 326 IAC 6-3, because, pursuant to 326 IAC 1-2-59, liquid and gaseous fuels and combustion air are not considered as part of the process weight.

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

- (a) The requirements of 326 IAC 7-1.1 are not applicable to the three (3) boilers, identified as BLR1, BLR2 and BLR3, because the potential to emit SO<sub>2</sub> from each boiler is less than ten (10) pounds per hour and twenty-five (25) tons per year. The source will need to maintain records from the fuel supplier that certifies the sulfur content of the fuel oil and shows that the sulfur content of the No. 2 distillate fuel oil is less than one-half percent (0.5%).
- (b) The requirements of 326 IAC 7-1.1 are not applicable to the emergency generators, because the potential to emit SO<sub>2</sub> from each generator is less than ten (10) pounds per hour and twenty-five (25) tons per year.

### 326 IAC 8-1-6 (VOC Rules: General Reduction Requirements for New Facilities)

Each boiler is not subject to the requirements of 326 IAC 8-1-6, since the uncontrolled VOC potential emissions for VOC from each boiler is less than twenty-five (25) tons per year.

### Diesel Fuel Storage Tank

#### 326 IAC 8-4-3 (Petroleum Liquid Storage Facilities)

The one (1) diesel fuel storage tank at this source has a capacity less than 39,000 gallons. Therefore, the requirements of 326 IAC 8-4-3 are not applicable.

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

This source is not located in Clark, Floyd, Lake or Porter Counties. Therefore, the requirements of 326 IAC 8-9 are not applicable to the one (1) diesel fuel oil storage tank.

#### 326 IAC 12-1 (New Source Performance Standards)

The one (1) diesel fuel oil storage tank has a capacity less than forty (40) cubic meters. Therefore, the requirements of the previous version of 40 CFR Part 60.110b, Subpart Kb, published in the federal register on April 8, 1987 and incorporated by reference in 326 IAC 12, are not applicable.

### Compliance Determination and Monitoring Requirements

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

<b>Emission Units</b>	<b>Operating Parameters</b>	<b>Frequency</b>
Boilers BLR1, BLR2 and BLR3	Visible Emission Notations from Stacks BLR1, BLR2 and BLR3	Once per day for each stack when burning No. 2 fuel oil

### Recommendation

The staff recommends to the Commissioner that the MSOP 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 application for the purposes of this review was received on December 16, 2008. Additional information was received on December 18, 2008.

### Conclusion

The operation of this general medical hospital shall be subject to the conditions of the attached MSOP Renewal No. M093-27262-00015.

**Emission Calculations  
PTE Summary**

**Company Name:** Dunn Memorial Hospital  
**Address City IN Zip:** 1600 23rd Street, Bedford, IN 47421  
**Permit Number:** M093-27262-00015  
**Reviewer:** Sarah Conner, Ph. D.  
**Date:** 12/17/2008

<b>Emission Units</b>	<b>PM</b>	<b>PM10</b>	<b>PM2.5</b>	<b>SO2</b>	<b>NOx</b>	<b>VOC</b>	<b>CO</b>
Worst case for Boilers	1.352	2.230	2.230	47.980	13.515	0.520	7.947
Diesel fuel fired emergency generator 1	0.057	0.057	0.057	0.053	0.805	0.066	0.173
Diesel fuel fired emergency generator 2	0.141	0.081	0.078	0.814	4.828	0.142	1.106
Natural gas fired emergency generators	0.002	0.002	0.002	0.000	0.431	0.006	0.725
<b>Worst Case Total (tons/yr)</b>	<b>1.551</b>	<b>2.369</b>	<b>2.367</b>	<b>48.846</b>	<b>19.579</b>	<b>0.734</b>	<b>9.952</b>

**HAPs Emission Summary**

Total worst case individual HAPs from Boilers and Generators

Acetaldehyde	Arsenic	Benzene	Dichlorobenzene	Formaldehyde	Hexane	Toluene	Xylenes	Naphthalene
5.82E-04	3.78E-04	1.6E-03	1.1E-04	1.1E-02	1.7E-01	8.3E-04	3.11E-04	1.83E-04

Lead	Beryllium	Cadmium	Chromium	Manganese	Nickel	Mercury	Selenium	1,3-Butadiene
8.51E-04	2.84E-04	2.84E-04	2.84E-04	5.68E-04	2.84E-04	2.84E-04	1.42E-03	1.29E-04

Acrolein	Methanol	Total PAH	<b>Total (tons/yr)</b>
5.13E-04	5.97E-04	1.42E-04	<b>1.91E-01</b>

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

**Company Name: Dunn Memorial Hospital  
Address City IN Zip: 1600 23rd Street, Bedford, IN 47421  
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Heat Input Capacity  
MMBtu/hr

Potential Throughput  
MMCF/yr

21.6

189.2

total for all three boilers (BLR1,  
BLR2, and BLR3)

Emission Factor in lb/MMCF	Pollutant						
	PM*	PM10*	PM2.5*	SO2	NOx	VOC	CO
	1.9	7.6	7.6	0.6	100 **see below	5.5	84
Potential Emission in tons/yr	0.2	0.7	0.7	0.1	9.5	0.5	7.9

\*PM emission factor is filterable PM only. PM10 emission factor is filterable and condensable PM10 combined. PM2.5 is also filterable and condensable PM2.5 combine  
\*\*Emission Factors for NOx: Uncontrolled = 100, Low NOx Burner = 50, Low NOx Burners/Flue gas recirculation = 32

**Methodology**

All emission factors are based on normal firing.  
MMBtu = 1,000,000 Btu  
MMCF = 1,000,000 Cubic Feet of Gas  
Emission Factors are from AP 42, Chapter 1.4, Tables 1.4-1, 1.4-2, 1.4-3, SCC #1-02-006-02, 1-01-006-02, 1-03-006-02, and 1-03-006-03  
Potential Throughput (MMCF) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1 MMCF/1,000 MMBtu  
Emission (tons/yr) = Throughput (MMCF/yr) x Emission Factor (lb/MMCF)/2,000 lb/ton

See next page for HAPs emissions calculations.

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

**Company Name: Dunn Memorial Hospital  
 Address City IN Zip: 1600 23rd Street, Bedford, IN 47421  
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HAPs - Organics					
Emission Factor in lb/MMcf	Benzene 2.1E-03	Dichlorobenzene 1.2E-03	Formaldehyde 7.5E-02	Hexane 1.8E+00	Toluene 3.4E-03
Potential Emission in tons/yr	1.987E-04	1.135E-04	7.096E-03	1.703E-01	3.217E-04

HAPs - Metals						
Emission Factor in lb/MMcf	Lead 5.0E-04	Cadmium 1.1E-03	Chromium 1.4E-03	Manganese 3.8E-04	Nickel 2.1E-03	Total (tons/yr)
Potential Emission in tons/yr	4.730E-05	1.041E-04	1.325E-04	3.595E-05	1.987E-04	1.785E-01

Methodology is the same as previous page.

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

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

**Company Name:** Dunn Memorial Hospital  
**Address City IN Zip:** 1600 23rd Street, Bedford, IN 47421  
**Permit Number:** M093-27262-00015  
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Heat Input Capacity  
MMBtu/hr

Potential Throughput  
kgals/year

S = Weight % Sulfur  
0.5

21.6

1351.54

Emission Factor in lb/kgal	Pollutant						
	PM*	PM10**	PM2.5**	SO2 71 (142.0S)	NOx 20.0	VOC 0.34	CO 5.0
Potential Emission in tons/yr	1.352	2.230	2.230	47.980	13.515	0.230	3.379

**Methodology**

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

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

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

\*PM emission factor is filterable PM only. Condensable PM emission factor is 1.3 lb/kgal. \*\*PM10 and PM2.5 are filterable and condensable PM combined.  
 Emission (tons/yr) = Throughput (kgals/ yr) x Emission Factor (lb/kgal)/2,000 lb/ton

Calculations are based using fuel oil with 0.50% sulfur content, changes in the % sulfur content of fuel oil will affect the actual amount of SO2 that is emitted.

See next page for HAPs emission calculations.

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

**Company Name: Dunn Memorial Hospital  
Address City IN Zip: 1600 23rd Street, Bedford, IN 47421  
Permit Number: M093-27262-00015  
Reviewer: Sarah Conner, Ph. D.  
Date: 12/17/2008**

HAPs - Metals					
Emission Factor in lb/mmBtu	Arsenic 4.0E-06	Beryllium 3.0E-06	Cadmium 3.0E-06	Chromium 3.0E-06	Lead 9.0E-06
Potential Emission in tons/yr	3.78E-04	2.84E-04	2.84E-04	2.84E-04	8.51E-04

HAPs - Metals (continued)					
Emission Factor in lb/mmBtu	Mercury 3.0E-06	Manganese 6.0E-06	Nickel 3.0E-06	Selenium 1.5E-05	Total (tons/yr)
Potential Emission in tons/yr	2.84E-04	5.68E-04	2.84E-04	1.42E-03	4.64E-03

**Methodology**

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

Potential Emissions (tons/year) = Throughput (mmBtu/hr)\*Emission Factor (lb/mmBtu)\*8,760 hrs/yr / 2,000 lb/ton

**Appendix A: Emission Calculations  
Natural Gas-fired Reciprocating Engines**

**Company Name: Dunn Memorial Hospital  
Address City IN Zip: 1600 23rd Street, Bedford, IN 47421  
Permit Number: M093-27262-00015  
Reviewer: Sarah Conner, Ph. D.  
Date: 12/17/2008**

**Emergency Generators 3, 4 and 5**  
Four stroke Rich Burn Engines  
Heat Input Capacity  
MM Btu/hr

0.78
------

Emission Factor in lb/MMBtu	Pollutant						
	PM 9.91E-03	PM10 9.50E-03	PM2.5 9.50E-03	SO2 5.88E-04	NOx 2.21E+00	VOC 2.96E-02	CO 3.72E+00
Potential Emission in tons/yr	0.002	0.002	0.002	0.0001	0.431	0.006	0.725

**Methodology**

\*PM emission factor is condensable PM only. PM10 emission factor is filterable PM10 only. It is assumed that PM10 is equal to PM2.5. combined. PM2.5 is also filterable and condensable PM2.5 combined.

The generators are only emergency generators. Therefore, they will not operate more than 500 hours per year.

Emission Factors are from AP 42 Tables 3.2-1, 3.2-2 and 3.2-3, revised July 2000

Emission (tons/yr) = [Heat input rate (MMBtu/hr) x Emission Factor (lb/MMBtu)] \* 500 hr/yr / (2,000 lb/ton )

**HAPs Emissions  
Natural Gas-fired Reciprocating Engines**

**Company Name: Dunn Memorial Hospital  
Address City IN Zip: 1600 23rd Street, Bedford, IN 47421  
Permit Number: M093-27262-00015  
Reviewer: Sarah Conner, Ph. D.  
Date: 12/17/2008**

HAPs					
Emission Factor in lb/mmBtu	1,3-Butadiene 6.63E-04	Acetaldehyde 2.79E-03	Acrolein 2.63E-03	Benzene 1.58E-03	Formaldehyde 2.05E-02
Potential Emission in tons/yr	1.29E-04	5.44E-04	5.13E-04	3.08E-04	4.00E-03

HAPs					
Emission Factor in lb/mmBtu	Methanol 3.06E-03	Toluene 5.58E-04	Xylene 1.95E-04	Total PAH 1.95E-04	Total (tons/yr)
Potential Emission in tons/yr	5.97E-04	1.09E-04	3.80E-05	1.41E-04	6.38E-03

**Methodology**

Additional HAPs emission factors are available in AP-42, Chapter 3 Table 3.2-2  
 Potential Emissions (tons/year) = Throughput (mmBtu/hr)\*Emission Factor (lb/mmBtu)\*8,760 hrs/yr / 2,000 lb/ton

**Appendix A: Emission Calculations  
Internal Combustion Engines - Diesel Fuel  
Turbine (>250 and <600 HP)  
Reciprocating**

**Company Name:** Dunn Memorial Hospital  
**Address City IN Zip:** 1600 23rd Street, Bedford, IN 47421  
**Permit Number:** M093-27262-00015  
**Reviewer:** Sarah Conner, Ph. D.  
**Date:** 12/17/2008

**Emergency Generator 1**

Heat Input Capacity  
MM Btu/hr

Potential Throughput  
MMCF/yr

0.73

6.4

Emission Factor in lb/MMBtu	Pollutant						
	PM*	PM10*	PM2.5*	SO2	NOx	VOC	CO
Potential Emission in tons/yr	0.31	0.31	0.31	0.29	4.41	0.36	0.95
	0.057	0.057	0.057	0.053	0.80	0.066	0.173

**Methodology**

The generators are only emergency generators. Therefore, they will not operate more than 500 hours per year.

Emission Factors are from AP42 (Supplement B 10/96), Table 3.3-2

Emission (tons/yr) = [Heat input rate (MMBtu/hr) x Emission Factor (lb/MMBtu)] \* 500 hr/yr / (2,000 lb/ton )

\*PM and PM2.5 emission factors are assumed to be equivalent to PM10 emission factors. No information was given regarding which method was used to determine the factor or the fraction of PM10 which is condensable.

**HAPs Emissions  
Internal Combustion Engines - Diesel Fuel  
Turbine (>250 and <600 HP)  
Reciprocating**

**Company Name: Dunn Memorial Hospital  
Address City IN Zip: 1600 23rd Street, Bedford, IN 47421  
Permit Number: M093-27262-00015  
Reviewer: Sarah Conner, Ph. D.  
Date: 12/17/2008**

HAPs			
Emission Factor in lb/MMcf	Benzene 9.3E-04	Formaldehyde 1.2E-03	Toluene 4.1E-04
Potential Emission in tons/yr	2.983E-06	3.773E-06	1.308E-06

HAPs				
Emission Factor in lb/MMcf	Xylenes 2.9E-04	Acetaldehyde 7.7E-04	Total PAH 1.7E-04	TOTAL HAPs (tons/yr)
Potential Emission in tons/yr	9.113E-07	2.452E-06	5.372E-07	1.196E-05

Methodology is the same as previous page

The five highest organic and metal HAPs emission factors are provided above.  
Additional HAPs emission factors are available in AP-42, Chapter 3 Table 3.3-2

**Appendix A: Emissions Calculations**  
**Large Stationary (>600 HP) No. 2 Distillate Fuel Oil Fired Emergency Generator 2**

**Company Name: Dunn Memorial Hospital**  
**Address City IN Zip: 1600 23rd Street, Bedford, IN 47421**  
**Permit Number: M093-27262-00015**  
**Reviewer: Sarah Conner, Ph. D.**  
**Date: 12/17/2008**

SO2 Emission factor = 8.09 E-03 x S  
 S = % Sulfur Content = 0.50

Capacity in hp  
804.60 generator 2

	Pollutant						
Emission Factor in lb/hp-hr	PM*	PM10*	PM2.5*	SO2	**Nox	VOC **TOC value	CO
Potential Emission in tons/yr	7.000E-04	4.011E-04	3.89E-04	4.045E-03	2.400E-02	7.050E-04	5.500E-03
	0.14	0.08	0.08	0.81	4.83	0.14	1.11

\*PM emission factor is filterable PM only. PM10 emission factor is filterable and condensable PM10 combined. PM2.5 is also filterable and condensable PM2.5 combined.  
 \*\*The VOC value given is total organic compounds (TOC).

**Methodology**

MMBtu = 1,000,000 Btu  
 Emission Factors are from AP 42, Chapter 3.4, Tables 3.4-1 and 3.4-2, SCC # 2-02-004-01, Oct, 1996  
 PM10 emission factor converted from value in Table 3.4-2 using the following method:  
 0.0573 lb/MMBtu x 1 MMBtu/1,000,000 Btu x 7000 Btu/hp-hr = 4.011 E-04  
 0.0556 lb/MMBtu x 1 MMBtu/1,000,000 Btu x 7000 Btu/hp-hr = 3.892 E-04  
 Conversion factor of 7,000Btu/hp-hr taken from AP-42, Table 3.4-1.  
 Emission (tons/yr) = Hp x Emission Factor (lb/hp-hr)/2,000 lb/ton x 500 hrs/year.

Calculations are based using fuel oil with 0.50% sulfur content, changes in the % sulfur content of fuel oil will affect the actual amount of SO2 that is emitted.

See the following page for HAPs emissions calculations.

**HAPs Emissions**  
**Large Stationary (>600 HP) No. 2 Distillate Fuel Oil Fired Emergency Generator 2**

**Company Name: Dunn Memorial Hospital**  
**Address City IN Zip: 1600 23rd Street, Bedford, IN 47421**  
**Permit Number: M093-27262-00015**  
**Reviewer: Sarah Conner, Ph. D.**  
**Date: 12/17/2008**

HAPs - Organics							
Emission Factor in lb/hp-hr	Benzene 5.432E-06	Toluene 1.967E-06	Xylenes 1.351E-06	Formaldehyde 5.520E-07	Acetaldehyde 1.760E-07	Naphthalene 9.100E-07	Total (tons/yr)
Potential Emission in tons/yr	0.001	0.000	0.000	0.000	0.000	0.000	0.002

Methodology is the same as previous page.

The six highest organic HAPs emission factors are provided above.

Emission Factors are from AP 42, Chapter 3.4, Table 3.4-3 SCC # 2-02-004-01, October, 96.