



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

We Protect Hoosiers and Our Environment.

Mitchell E. Daniels Jr.
Governor

Thomas W. Easterly
Commissioner

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

TO: Interested Parties / Applicant

DATE: February 17, 2010

RE: Clark Memorial Hospital / 019-28930-00043

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

Notice of Decision – Approval

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 326 IAC 2, this approval was effective immediately upon submittal of the application.

If you wish to challenge this decision, IC 4-21.5-3-7 requires 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 from 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-AM.dot12/3/07



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Mr. Don Ingle
Clark Memorial Hospital
1220 Missouri Ave
Jeffersonville, IN 47130

February 17, 2010

Re: 019-28930-00043
First Notice-Only Change to
M019-25895-00043

Dear Mr. Don Ingle:

Clark Memorial Hospital was issued a Minor Source Operating Permit (MSOP) Renewal No. M019-25895-00043 on August 21, 2008, for a stationary hospital located at 1220 Missouri Ave, Jeffersonville, IN. On February 1, 2010, the Office of Air Quality (OAQ) received an application from the source relating to the construction and operation of a new natural gas emergency generator, identified as Nat Gas Gen - Clark Health Dept, that is of the same type as the other permitted natural gas emergency generators. Pursuant to 326 IAC 2-1.1-3(e)(25)(B)(iii), the Permittee was not required to have prior approval to construct and/or operate the Nat Gas Gen - Clark Health Dept, because it is a natural gas emergency generator not exceeding sixteen thousand (16,000) horsepower.

The new natural gas emergency generator will comply with the same applicable requirements and permit terms and conditions as the permitted natural gas emergency generators, but will not cause the source's potential to emit to be greater than the threshold levels specified in 326 IAC 2-2 or 326 IAC 2-3. The uncontrolled/unlimited potential to emit of the entire source will continue to be less than the threshold levels specified in 326 IAC 2-7. The addition of the new natural gas emergency generator, Nat Gas Gen - Clark Health Dept, to the permit is considered a notice-only change pursuant to 326 IAC 2-6.1-6(d)(13).

Pursuant to the provisions of 326 IAC 2-6.1-6, the permit is hereby revised as follows with the deleted language as ~~strikeouts~~ and new language **bolded**.

1. Condition A.2 has been revised to incorporate the new emergency generator, identified as Nat Gas Gen - Clark Health Dept, as follows:

A.2 Emission Units and Pollution Control Equipment Summary

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

...

- (i) **One (1) Emergency Natural Gas Generator, identified as Nat Gas Gen - Clark Health Dept, constructed in 2008, with a maximum heat input capacity of 0.3375 MMBtu/hr, with a maximum capacity of 45 horsepower (hp), operating a maximum of 500 hours per year, and exhausting to the atmosphere. Under 40 CFR 63, Subpart ZZZZ, this unit is considered an affected source/facility. [40 CFR 63, Subpart ZZZZ] [326 IAC 12]**

2. Condition D.2 has been revised to incorporate the new emergency generator, identified as Nat Gas Gen - Clark Health Dept, as follows:

SECTION D.2 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:
...
(i) One (1) Emergency Natural Gas Generator, identified as Nat Gas Gen - Clark Health Dept, constructed in 2008, with a maximum heat input capacity of 0.3375 MMBtu/hr, with a maximum capacity of 45 horsepower (hp), operating a maximum of 500 hours per year, and exhausting to the atmosphere. Under 40 CFR 63, Subpart ZZZZ, this unit is considered an affected source/facility. [40 CFR 63, Subpart ZZZZ] [326 IAC 12]

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

3. Section E.3 2 has been revised to incorporate the new emergency generator, identified as Nat Gas Gen - Clark Health Dept, as follows:

SECTION E.3 OPERATION CONDITIONS

Emissions Unit Description:
...
(i) One (1) Emergency Natural Gas Generator, identified as Nat Gas Gen - Clark Health Dept, constructed in 2008, with a maximum heat input capacity of 0.3375 MMBtu/hr, with a maximum capacity of 45 horsepower (hp), operating a maximum of 500 hours per year, and exhausting to the atmosphere. Under 40 CFR 63, Subpart ZZZZ, this unit is considered an affected source/facility. [40 CFR 63, Subpart ZZZZ] [326 IAC 12]

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

4. Since Section E.3.2 applies to all three (3) of the natural gas emergency generators listed in Section E.3, Section E.3.2 has been revised as follows

E.3.2 Reciprocating Internal Combustion Engines NESHAP [40 CFR Part 63, Subpart ZZZZ] [326 IAC 20-82]

The Permittee, which owns and operates a hospital, shall comply with the following provisions of 40 CFR Part 63, Subpart ZZZZ (included as Attachment C of this permit), which are incorporated by reference as 326 IAC 20-82, except as otherwise specified in 40 CFR Part 63, Subpart ZZZZ:

~~For both Nat Gas Gen – Med Plaza and Diesel Gen IS Dept:~~

IDEM, OAQ has decided to make additional revisions to the permit as described below. The permit has been revised as follows with deleted language as ~~strikeouts~~ and new language **bolded**:

5. IDEM has revised the permit to correct a typographical error in the Table of Contents as follows:

D.2. EMISSIONS UNIT OPERATION CONDITIONS.....22

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

D.2.1 ~~Particulate Matter (PM) Preventive Maintenance Plan~~ [326 IAC 6-2-31-6-3]

6. IDEM has revised the permit to correct typographical errors in Section D.1.1 as follows:

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

- (a) Pursuant to 326 IAC 6-2-3-2, the PM emissions from EU-01 and EU-02 shall be limited to 0.49 lbs/MMBtu.
- (b) Pursuant to 326 IAC 6-2-4, the PM emissions from the boilers EU 03, EU 04, EU 05, and MA-1 shall be limited to 0.38 pounds per MMBtu heat input.

7. IDEM has revised the permit to correct a typographical error in Section D.2.1 as follows:

D.2.1 Preventative 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 these units.

8. IDEM has revised Appendix A to the Technical Support Document (TSD) to include the calculations for the Nat Gas Gen - Clark Health Dept and to correct the typographical error in which the date was listed as 2009 instead of 2010. See TSD Appendix A.

All other conditions of the permit shall remain unchanged and in effect. Attached please find the entire revised permit. A copy of the permit is available on the Internet at: <http://www.in.gov/ai/appfiles/idem-caats/>. 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

This decision is subject to the Indiana Administrative Orders and Procedures Act - IC 4-21.5-3-5. If you have any questions on this matter, please contact Christine L. Filutze, of my staff, at 317-233-8397 or 1-800-451-6027, and ask for extension 3-8397.

Sincerely,



Alfred C. Dumaul, Ph. D., Section Chief
Permits Branch
Office of Air Quality

Attachments: Updated Permit, TSD Appendix A

ACD/clf

cc: File - Clark County
Clark County Health Department
U.S. EPA, Region V
Compliance and Enforcement Branch
Billing, Licensing and Training Section



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Minor Source Operating Permit Renewal OFFICE OF AIR QUALITY

**Clark Memorial Hospital
1220 Missouri Avenue
Jeffersonville, Indiana 47130**

(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.: M 019-25895-00043	
Original Signed by: Alfred C. Dumauual, Ph. D., Section Chief Permits Branch Office of Air Quality	Issuance Date: August 21, 2008 Expiration Date: August 21, 2018

First Minor Permit Revision No.: 019-28728-00043, was issued on January 21, 2010

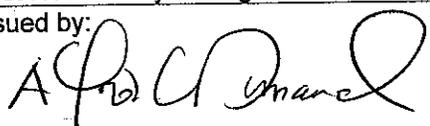
First Notice Only Change No.: 019-28930-00043	
Issued by:  Alfred C. Dumauual, Ph. D., Section Chief Permit Administration and Support Section Office of Air Quality	Issuance Date: February 17, 2010 Expiration Date: August 21, 2018

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[IC 13-14-1-13]

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

- D.1.1 Particulate Matter (PM) [326 IAC 6-2-3]
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- D.1.3 Sulfur Dioxide Emission Limitations [326 IAC 7-1.1]
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- D.1.8 Record Keeping and Reporting Requirements [326 IAC 8-9]
- D.1.9 Record Keeping Requirements
- D.1.10 Reporting Requirements

D.2. EMISSIONS UNIT OPERATION CONDITIONS..... 22

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

- D.2.1 Preventive Maintenance Plan [326 IAC 1-6-3]

E.1. OPERATION CONDITIONS..... 23

- E.1.1 NSPS 40 CFR Part 60, Subpart A [326 IAC 12-1]
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- Attachment A 40 CFR 60, Subpart Dc
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- Attachment C 40 CFR 63, Subpart ZZZZ

SECTION A SOURCE SUMMARY

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

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

The Permittee owns and operates a stationary hospital.

Source Address:	1220 Missouri Avenue, Jeffersonville, Indiana 47130
Mailing Address:	1220 Missouri Avenue, Jeffersonville, IN 47130
General Source Phone Number:	812-283-2295
SIC Code:	8062
County Location:	Clark
Source Location Status:	Nonattainment for PM2.5 standard Attainment for all other criteria pollutants
Source Status:	Minor Source Operating Permit Program Minor Source, under PSD and Emission Offset Rules Minor Source, Section 112 of the Clean Air Act Not 1 of 28 Source Categories

A.2 Emission Units and Pollution Control Equipment Summary

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

- (a) Two (2) natural gas fired boilers burning No. 2 fuel oil as back-up, identified as EU 01 and EU 02, each constructed in 1966, each with a maximum heat input capacity of 15 million British thermal units (MMBtu) per hour, and each exhausting to one (1) stack, S/V 01 and S/V 02 respectively;
- (b) One (1) natural gas fired boiler burning No. 2 fuel oil as back-up, identified as EU 03, constructed in October of 1989, with a maximum heat input capacity of 22.5 MMBtu per hour, and exhausting to one (1) stack, S/V 03;
- (c) Four (4) emergency diesel generators, with maximum heat input capacities of 166 HP, 200 HP, 675 HP, and 760 HP, each combusting No. 2 fuel oil and operating a maximum of 500 hours per year; and
- (d) Three (3) underground storage tanks for No. 2 fuel oil, each modified after 1984, with maximum storage capacities of 2,000 gallons, 3,000 gallons, and 10,000 gallons.
- (e) Two (2) natural gas fired boilers, identified as EU 04 and EU 05, each constructed in 2005, with a maximum heat input capacity of 0.93 MMBtu/hr per each unit and both exhausting to one stack, S/V 03.
- (f) One (1) natural gas fired boiler, identified as MA-01 boiler, constructed in 2006, with a maximum heat input capacity of 2.05 MMBtu/hr, and exhausting to one (1) stack, MA-1;
- (g) One (1) Emergency Natural Gas Generator, identified as Nat Gas Gen – Med Plaza, constructed in 2008, with a maximum heat input capacity of 0.561 MMBtu/hr, with a maximum capacity of 67 horsepower (hp), operating at a maximum of 500 hours per year, located outdoors, and exhausting to the atmosphere. Under 40 CFR 63, Subpart

ZZZZ, this unit is considered an affected source/facility. [40 CFR 63, Subpart ZZZZ] [326 IAC 12]

- (h) One (1) Emergency Diesel Generator, identified as Diesel Gen IS Dept, constructed in 2009, with a maximum heat input capacity of 470 horsepower (hp), combusting # 2 fuel oil, operating at a maximum of 500 hours per year, located outdoors, and exhausting to the atmosphere. Under 40 CFR 60, Subpart IIII and 40 CFR 63, Subpart ZZZZ, this unit is considered an affected source/facility. [40 CFR 60, Subpart IIII] [40 CFR 63, Subpart ZZZZ] [326 IAC 12]
- (i) One (1) Emergency Natural Gas Generator, identified as Nat Gas Gen - Clark Health Dept, constructed in 2008, with a maximum heat input capacity of 0.3375 MMBtu/hr, with a maximum capacity of 45 horsepower (hp), operating a maximum of 500 hours per year, and exhausting to the atmosphere. Under 40 CFR 63, Subpart ZZZZ, this unit is considered an affected source/facility. [40 CFR 63, Subpart ZZZZ] [326 IAC 12]

SECTION B GENERAL CONDITIONS

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

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

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

- (a) This permit, M 019-25895-00043, is issued for a fixed term of ten (10) years from the issuance date of this permit, as determined in accordance with IC 4-21.5-3-5(f) and IC 13-15-5-3. Subsequent revisions, modifications, or amendments of this permit do not affect the expiration date of this permit.
- (b) If IDEM, OAQ, upon receiving a timely and complete renewal permit application, fails to issue or deny the permit renewal prior to the expiration date of this permit, this existing permit shall not expire and all terms and conditions shall continue in effect, until the renewal permit has been issued or denied.

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

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

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

B.4 Enforceability

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

B.5 Severability

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

B.6 Property Rights or Exclusive Privilege

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

B.7 Duty to Provide Information

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

B.8 Certification

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

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

- (a) An annual notification shall be submitted by an authorized individual to the Office of Air Quality stating whether or not the source is in operation and in compliance with the terms and conditions contained in this permit.
- (b) The annual notice shall be submitted in the format attached no later than March 1 of each year to:

Indiana Department of Environmental Management
Compliance and Enforcement Branch, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, IN 46204-2251
- (c) The notification shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ on or before the date it is due.

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

- (a) If required by specific condition(s) in Section D of this permit, the Permittee shall 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]

- (a) All terms and conditions of permits established prior to M 019-25895-00043 and issued pursuant to permitting programs approved into the state implementation plan have been either:
 - (1) incorporated as originally stated,
 - (2) revised, or
 - (3) deleted.
- (b) All previous registrations and permits are superseded by this permit.

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

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

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

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

Request for renewal shall be submitted to:

Indiana Department of Environmental Management
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 ninety (90) days prior to the date of the expiration of this permit; and
 - (2) If the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ on or before the date it is due.
- (c) If the Permittee submits a timely and complete application for renewal of this permit, the source's failure to have a permit is not a violation of 326 IAC 2-6.1 until IDEM, OAQ takes final action on the renewal application, except that this protection shall cease to apply if, subsequent to the completeness determination, the Permittee fails to submit by the deadline specified in writing by IDEM, OAQ any additional information identified as being needed to process the application.

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

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

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

Indiana Department of Environmental Management
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

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

B.16 Inspection and Entry

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

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

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

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

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

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

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

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

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

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

Indiana Department of Environmental Management
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]

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

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

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

SECTION C SOURCE OPERATION CONDITIONS

Entire Source

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

C.1 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.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 thirty percent (30%) 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.

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).

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

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

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

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

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

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

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

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

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

Corrective Actions and Response Steps

C.13 Response to Excursions or Exceedances

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

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

C.14 Actions Related to Noncompliance Demonstrated by a Stack Test

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

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

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

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

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

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

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

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

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

C.17 General Reporting Requirements [326 IAC 2-1.1-11] [326 IAC 2-6.1-2] [IC 13-14-1-13]

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

Indiana Department of Environmental Management
Compliance 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.

Ambient Monitoring Requirements [326 IAC 7-3]

C.18 Ambient Monitoring [326 IAC 7-3]

- (a) The Permittee shall operate continuous ambient sulfur dioxide air quality monitors and a meteorological data acquisition system according to a monitoring plan submitted to the commissioner for approval. The monitoring plan shall include requirements listed in 326 IAC 7-3-2(a)(1), 326 IAC 7-3-2(a)(2) and 326 IAC 7-3-2(a)(3).
- (b) The Permittee and other operators subject to the requirements of this rule, located in the same county, may submit a joint monitoring plan to satisfy the requirements of this rule. [326 IAC 7-3-2(c)]
- (c) The Permittee may petition the commissioner for an administrative waiver of all or some of the requirements of 326 IAC 7-3 if such owner or operator can demonstrate that

ambient monitoring is unnecessary to determine continued maintenance of the sulfur dioxide ambient air quality standards in the vicinity of the source. [326 IAC 7-3-2(d)]

SECTION D.1 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

- (a) Two (2) natural gas fired boilers burning No. 2 fuel oil as back-up, identified as EU 01 and EU 02, each constructed in 1966, each with a maximum heat input capacity of 15 million British thermal units (MMBtu) per hour, and each exhausting to one (1) stack, S/V 01 and S/V 02 respectively;
- (b) One (1) natural gas fired boiler burning No. 2 fuel oil as back-up, identified as EU 03, constructed in October of 1989, with a maximum heat input capacity of 22.5 MMBtu per hour, and exhausting to one (1) stack, S/V 03;
- (c) Four (4) emergency diesel generators, with maximum heat input capacities of 166 HP, 200 HP, 675 HP, and 760 HP, each combusting No. 2 fuel oil and operating a maximum of 500 hours per year; and
- (d) Three (3) underground storage tanks for No. 2 fuel oil, each modified after 1984, with maximum storage capacities of 2,000 gallons, 3,000 gallons, and 10,000 gallons.
- (e) Two (2) natural gas fired boilers, identified as EU 04 and EU 05, each constructed in 2005, with a maximum heat input capacity of 0.93 MMBtu/hr per each unit and both exhausting to one stack, S/V 03.
- (f) One (1) natural gas fired boiler, identified as MA-01 boiler, constructed in 2006, with a maximum heat input capacity of 2.05 MMBtu/hr, and exhausting to one (1) stack, MA-1;

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

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

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

- (a) Pursuant to 326 IAC 6-2-3, the PM emissions from EU-01 and EU-02 shall be limited to 0.49 lbs/MMBtu.
- (b) Pursuant to 326 IAC 6-2-4, the PM emissions from the boilers EU 03, EU 04, EU 05, and MA-1 shall be limited to 0.38 pounds per MMBtu heat input.

D.1.2 Particulate Matter (PM) [40 CFR 60.40c]

Pursuant to 40 CFR 60, Subpart Dc (Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units):

- (a) The PM emissions from the twenty-two and five tenths (22.5) MMBtu per hour natural gas fired boiler shall not exceed one tenth (0.1) pounds per million Btu heat input; or
- (b) Opacity shall not exceed twenty percent (20%) in any one (1) six (6) minute averaging period, except for one six (6) minute period per hour of not more than twenty-seven percent (27%) opacity.

Pursuant to 40 CFR 60 Subpart Dc, the PM and opacity limit applies at all times, except periods of startup, shutdown, and malfunction.

D.1.3 Sulfur Dioxide Emission Limitations [326 IAC 7-1.1]

Pursuant to 326 IAC 7-1.1, the SO₂ emissions shall not exceed five tenths (0.5) pounds per MMBtu heat input or a sulfur content of less than or equal to 0.5% when using distillate oil.

Clark Memorial Hospital has been using a sulfur content of less than or equal to 0.25% when using distillate oil for their previous permit approvals and will continue to do so for this permit renewal. If the sulfur content of the oil is changed, then Clark Memorial Hospital must inform OAQ of the change.

D.1.4 Volatile Organic Liquid Storage Vessels [326 IAC 8-9]

The source is located in Clark County and the rule is applicable to this source for the No. 2 fuel oil storage tanks with storage capacities of 2,000 gallons, 3,000 gallons, and 10,000 gallons.

Since these vessels have individual storage capacities of less than 39,000 gallons, only the record keeping and reporting requirements of 326 IAC 8-9-6 apply.

D.1.5 Compliance Determination

Compliance for Sulfur Dioxide Emissions and Sulfur Content 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 twenty-five hundredths (0.25) pound per million Btu heat input, which is equivalent to a sulfur content of 0.25% when using No. 2 fuel oil, by:
 - (1) Providing vendor analysis of fuel delivered, if accompanied by a vendor certification, or;
 - (2) Analyzing the oil sample to determine the sulfur content of the oil via the procedures in 40 CFR 60, Appendix A, Method 19.
 - (A) Oil samples may be collected from the fuel tank immediately after the fuel tank is filled and before any oil is combusted; and
 - (B) If a partially empty fuel tank is refilled, a new sample and analysis would be required upon filling.
- (b) Compliance may also be determined by conducting a stack test for sulfur dioxide emissions from the boiler using 40 CFR 60, Appendix A, Method 6 in accordance with the procedures in 326 IAC 3-6.

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

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

D.1.6 Visible Emissions Notations

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

- (e) If abnormal emissions are observed, the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions and Exceedances. Failure to take response steps in accordance with Section C - Response to Excursions and Exceedances, shall be considered a violation of this permit.

D.1.7 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 all of the boilers (EU1, EU2, EU3, EU4, EU5, and MA-01), the four (4) emergency diesel generators, and the three (3) underground storage tanks.

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

D.1.8 Record Keeping and Reporting Requirements [326 IAC 8-9]

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

- (a) Maintain a record and submit to the department a report containing the following information for each vessel:
 - (1) The vessel identification number.
 - (2) The vessel dimensions.
 - (3) The vessel capacity.
 - (4) A description of the emission control equipment or a schedule for installation of emission control equipment, for each vessel described in 326 IAC 8-9-4(a) or (b).
- (b) All records required by (a) of this condition shall be maintained for the life of the affected vessel.
- (c) The report shall be submitted to the addresses listed in Section C - General Reporting Requirements within thirty (30) days after the end of the first calendar quarter being reported. The report submitted by the Permittee does require the certification by the authorized individual as defined by 326 IAC 2-7-1(34).

D.1.9 Record Keeping Requirements

- (a) To document compliance with Condition D.1.3, the Permittee shall maintain records in accordance with (1) through (6) below. Records maintained for (1) through (6) shall be taken monthly and shall be complete and sufficient to establish compliance with the SO₂ emission limit established in Condition D.1.3.

- (1) Calendar dates covered in the compliance determination period;
- (2) Actual fuel oil usage since last compliance determination period and equivalent sulfur dioxide emissions;
- (3) A certification, signed by the owner or operator, that the records of the fuel supplier certifications represent all of the fuel combusted during the period, the natural gas fired boiler certification does not require the certification by the authorized individual as defined by 326 IAC 2-7-1(34); and

If the fuel supplier certification is used to demonstrate compliance the following, as a minimum, shall be maintained:

- (4) Fuel supplier certifications;
 - (5) The name of the fuel supplier; and
 - (6) A statement from the fuel supplier that certifies the sulfur content of the fuel oil.
- (b) To document compliance with Visible Emissions (condition D.1.6), the Permittee shall maintain a daily record of visible emission notations of the boiler's stacks (SV 01, SV 02, and SV 03) exhaust while combusting No. 2 fuel oil. 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, (i.e. the process did not operate that day).
- (c) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

D.1.10 Reporting Requirements

- (a) A quarterly summary of the information to document compliance with Conditions D.1.3 and D.1.6 shall be submitted to the address listed in Section C - General Reporting Requirements, of this permit, using the reporting forms located at the end of this permit, or their equivalent, within thirty (30) days after the end of the quarter being reported. The report submitted by the Permittee does require the certification by the authorized individual as defined by 326 IAC 2-7-1(34).
- (b) The natural gas boiler certification shall be submitted to the address listed in Section C - General Reporting Requirements, of this permit, using the reporting forms located at the end of this permit, or its equivalent, within thirty (30) days after the end of the six (6) month period being reported. The natural gas-fired boiler certification does require the certification by the authorized individual as defined by 326 IAC 2-7-1(34).

SECTION D.2 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

- (g) One (1) Emergency Natural Gas Generator, identified as Nat Gas Gen – Med Plaza, constructed in 2008, with a maximum heat input capacity of 0.561 MMBtu/hr, with a maximum capacity of 67 horsepower (hp), operating at a maximum of 500 hours per year, located outdoors, and exhausting to the atmosphere. Under 40 CFR 63, Subpart ZZZZ, this unit is considered an affected source/facility. [40 CFR 63, Subpart ZZZZ] [326 IAC 12]
- (h) One (1) Emergency Diesel Generator, identified as Diesel Gen IS Dept, constructed in 2009, with a maximum heat input capacity of 470 horsepower (hp), combusting # 2 fuel oil, operating at a maximum of 500 hours per year, located outdoors, and exhausting to the atmosphere. Under 40 CFR 60, Subpart IIII and 40 CFR 63, Subpart ZZZZ, this unit is considered an affected source/facility. [40 CFR 60, Subpart IIII] [40 CFR 63, Subpart ZZZZ] [326 IAC 12]
- (i) One (1) Emergency Natural Gas Generator, identified as Nat Gas Gen - Clark Health Dept, constructed in 2008, with a maximum heat input capacity of 0.3375 MMBtu/hr, with a maximum capacity of 45 horsepower (hp), operating a maximum of 500 hours per year, and exhausting to the atmosphere. Under 40 CFR 63, Subpart ZZZZ, this unit is considered an affected source/facility. [40 CFR 63, Subpart ZZZZ] [326 IAC 12]

(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 2-5.1-2(f)(1)] [326 IAC 2-5.5-4(a)(1)]

D.2.1 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 these units.

SECTION E.1

OPERATION CONDITIONS

Emissions Unit Description:

- (a) One (1) natural gas fired boiler burning No. 2 fuel oil as back-up, identified as EU 03, constructed in October of 1989, with a maximum heat input capacity of 22.5 MMBtu per hour, and exhausting to one (1) stack, S/V 03. Under 40 CFR 60, Subpart Dc, this unit is considered an affected source/facility. [40 CFR 60, Subpart Dc] [326 IAC 12]

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

E.1.1 General Provisions Relating to New Source Performance Standards (NSPS) for (Standards of Performance for New Stationary Sources) [40 CFR Part 60, Subpart A] [326 IAC 12-1]

Pursuant to 40 CFR 60, the Permittee shall comply with the provisions of 40 CFR Part 60, Subpart A – General Provisions, which are incorporated by reference as 326 IAC 12-1, except as otherwise specified in 40 CFR 60, Subpart Dc.

E.1.2 New Source Performance Standards (NSPS) for (Standards of Performance for New Stationary Sources) [40 CFR Part 60, Subpart Dc] [326 IAC 12-1]

The Permittee, which owns and operates a hospital, shall comply with the following provisions of 40 CFR Part 60, Subpart Dc (included as Attachment A of this permit):

- (1) 40 CFR 60.40c
- (2) 40 CFR 60.41c
- (3) 40 CFR 60.48c(a), (a)(1), (a)(3), (g), (i)

SECTION E.2

OPERATION CONDITIONS

Emissions Unit Description:

- (h) One (1) Emergency Diesel Generator, identified as Diesel Gen IS Dept, constructed in 2009, with a maximum heat input capacity of 470 horsepower (hp), combusting # 2 fuel oil, operating at a maximum of 500 hours per year, located outdoors, and exhausting to the atmosphere. Under 40 CFR 60, Subpart IIII and 40 CFR 63, Subpart ZZZZ, this unit is considered an affected source/facility. [40 CFR 60, Subpart IIII] [40 CFR 63, Subpart ZZZZ] [326 IAC 12]

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

E.2.1 General Provisions Relating to New Source Performance Standards (NSPS) for Stationary Compression Ignition Internal Combustion Engines [40 CFR Part 60, Subpart A] [326 IAC 12-1]

Pursuant to 40 CFR 60.1, the Permittee shall comply with the provisions of 40 CFR Part 60, Subpart A – General Provisions, which are incorporated by reference as 326 IAC 12-1, as specified in 40 CFR Part 60, Subpart IIII.

E.2.2 New Source Performance Standards (NSPS) for Stationary Compression Ignition Internal Combustion Engines [40 CFR Part 60, Subpart IIII] [326 IAC 12-1]

The Permittee, which owns and operates a hospital, shall comply with the following provisions of 40 CFR Part 60, Subpart IIII (included as Attachment B of this permit), with a compliance date of July 11, 2006:

- (1) 40 CFR 60.4200(a)(2)(i)
- (2) 40 CFR 60.4200(c)
- (3) 40 CFR 60.4202(c)
- (4) 40 CFR 60.4205(b)
- (5) 40 CFR 60.4206
- (6) 40 CFR 60.4207(a)
- (7) 40 CFR 60.4207(b)
- (8) 40 CFR 60.4207(c)
- (9) 40 CFR 60.4208(a)
- (10) 40 CFR 60.4208(g)
- (11) 40 CFR 60.4209
- (12) 40 CFR 60.4211(a)
- (13) 40 CFR 60.4211(c)
- (14) 40 CFR 60.4211(e)
- (15) 40 CFR 60.4214(b)
- (16) 40 CFR 60.4214(c)
- (17) 40 CFR 60.4218
- (18) 40 CFR 60.4219
- (19) Table 8 to Subpart IIII

SECTION E.3

OPERATION CONDITIONS

Emissions Unit Description:

- (g) One (1) Emergency Natural Gas Generator, identified as Nat Gas Gen – Med Plaza, constructed in 2008, with a maximum heat input capacity of 0.561 MMBtu/hr, with a maximum capacity of 67 horsepower (hp), operating at a maximum of 500 hours per year, located outdoors, and exhausting to the atmosphere. Under 40 CFR 63, Subpart ZZZZ, this unit is considered an affected source/facility. [40 CFR 63, Subpart ZZZZ] [326 IAC 12]
- (h) One (1) Emergency Diesel Generator, identified as Diesel Gen IS Dept, constructed in 2009, with a maximum heat input capacity of 470 horsepower (hp), combusting # 2 fuel oil, operating at a maximum of 500 hours per year, located outdoors, and exhausting to the atmosphere. Under 40 CFR 60, Subpart IIII and 40 CFR 63, Subpart ZZZZ, this unit is considered an affected source/facility. [40 CFR 60, Subpart IIII] [40 CFR 63, Subpart ZZZZ] [326 IAC 12]
- (i) One (1) Emergency Natural Gas Generator, identified as Nat Gas Gen - Clark Health Dept, constructed in 2008, with a maximum heat input capacity of 0.3375 MMBtu/hr, with a maximum capacity of 45 horsepower (hp), operating a maximum of 500 hours per year, and exhausting to the atmosphere. Under 40 CFR 63, Subpart ZZZZ, this unit is considered an affected source/facility. [40 CFR 63, Subpart ZZZZ] [326 IAC 12]

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

E.3.1 General Provisions Relating to NESHAP [326 IAC 20-1] [40 CFR 63, Subpart A]

- (a) Pursuant to 40 CFR 63, the Permittee shall comply with the provisions of 40 CFR Part 63, Subpart A - General Provisions, which are incorporated by reference as 326 IAC 20-1, except as otherwise specified in 40 CFR 63, Subpart ZZZZ.
- (b) Pursuant to 40 CFR 63.10, the Permittee shall submit all required notifications and reports 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

E.3.2 Reciprocating Internal Combustion Engines NESHAP [40 CFR Part 63, Subpart ZZZZ] [326 IAC 20-82]

The Permittee, which owns and operates a hospital, shall comply with the following provisions of 40 CFR Part 63, Subpart ZZZZ (included as Attachment C of this permit), which are incorporated by reference as 326 IAC 20-82, except as otherwise specified in 40 CFR Part 63, Subpart ZZZZ:

- (1) 40 CFR 63.6580
- (2) 40 CFR 63.6585(a)
- (3) 40 CFR 63.6585(b)
- (4) 40 CFR 63.6585(c)
- (5) 40 CFR 63.6585(d)
- (6) 40 CFR 63.6590(a)(2)(iii)
- (7) 40 CFR 63.6590(c)
- (8) 40 CFR 63.6595(a)(7)
- (9) 40 CFR 63.6595(c)

- (10) 40 CFR 63.6665
- (11) 40 CFR 63.6670(a)
- (12) 40 CFR 63.6675

**Indiana Department of Environmental Management
Office of Air Quality
Compliance and Enforcement Branch**

Monthly Report

Company Name: Clark Memorial Hospital
Location: 1220 Missouri Avenue, Jeffersonville, Indiana, 47130
Permit No.: M 019-25895-00043
Source/Facility: Boiler EU 3
Pollutant: SO₂
Limit: sulfur content of No. 2 fuel oil to be 0.25 % or less

Month: _____ **Year:** _____

Day	sulfur content of fuel oil	Day	sulfur content of fuel oil
1		17	
2		18	
3		19	
4		20	
5		21	
6		22	
7		23	
8		24	
9		25	
10		26	
11		27	
12		28	
13		29	
14		30	
15		31	
16		TOTAL	

Submitted by: _____
Title/Position: _____
Signature: _____
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).

Company Name:	Clark Memorial Hospital
Address:	1220 Missouri Avenue
City:	Jeffersonville, Indiana 47130
Phone #:	812-283-2295
MSOP #:	M 019-25895-00043

I hereby certify that Clark Memorial Hospital is :

still in operation.

no longer in operation.

I hereby certify that Clark Memorial Hospital is :

in compliance with the requirements of MSOP M 019-25895-00043.

not in compliance with the requirements of MSOP M 019-25895-00043.

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

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

Noncompliance:

MALFUNCTION REPORT

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

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

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

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

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

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

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

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

ESTIMATED HOURS OF OPERATION WITH MALFUNCTION CONDITION: _____

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

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

ESTIMATED AMOUNT OF POLLUTANT EMITTED DURING MALFUNCTION: _____

MEASURES TAKEN TO MINIMIZE EMISSIONS: _____

REASONS WHY FACILITY CANNOT BE SHUTDOWN DURING REPAIRS:

CONTINUED OPERATION REQUIRED TO PROVIDE ESSENTIAL* SERVICES: _____

CONTINUED OPERATION NECESSARY TO PREVENT INJURY TO PERSONS: _____

CONTINUED OPERATION NECESSARY TO PREVENT SEVERE DAMAGE TO EQUIPMENT: _____

INTERIM CONTROL MEASURES: (IF APPLICABLE) _____

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

MALFUNCTION RECORDED BY: _____ DATE: _____ TIME: _____

*SEE PAGE 2

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

326 IAC 1-6-1 Applicability of rule

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

326 IAC 1-2-39 "Malfunction" definition

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

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

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

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

SEMI-ANNUAL NATURAL GAS FIRED BOILER CERTIFICATION

Source Name: Clark Memorial Hospital
Source Address: 1220 Missouri Avenue, Jeffersonville, Indiana 47130
Mailing Address: 1220 Missouri Avenue, Jeffersonville, IN 47130
MSOP Permit No.: M 019-25895-00043
Source: EU 01, EU 02, EU 03, EU 04, EU 05

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

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

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

**Appendix A: Emission Calculations
Summary**

Company Name: Clark Memorial Hospital
Address City IN Zip: 1220 Missouri Avenue, Jeffersonville, IN 47130
Permit: 019-28930-00043
Reviewer: Christine L. Filutze
Date: February 17, 2010

Uncontrolled Potential Emissions (tons/year)							
Emissions Generating Activity							
Pollutant	Boilers Emissions (Natural Gas)	Emergency Generators Emissions (Diesel Fuel)	Underground Storage Tanks Emissions (No. 2 Fuel)	Diesel Gen IS Dept Emissions (Diesel Fuel)	Nat Gas Gen - Med Plaza Emissions (Natural Gas)	Nat Gas Gen - Clark Health Dept Emissions (Natural Gas)	TOTAL
PM	0.50	0.50	3.30	0.26	1.39E-03	8.36E-04	4.56
PM10=PM2.5	1.90	0.20	5.40	0.26	1.08E-05	6.51E-06	7.76
SO2	0.10	0.89	58.30	0.24	8.25E-05	4.96E-05	59.53
NOx	24.70	11.44	32.90	3.64	0.57	0.34	73.60
VOC	1.40	0.53	0.60	0.30	0.02	0.01	2.85
CO	20.80	2.89	8.20	0.78	0.04	0.03	32.75
total HAPs	0.47	0.00	0.00	0.00	0.01	0.01	0.48
worst case single HAP* (hexane)	0.44						

Total emissions calculations are based on the maximum capacity of 8,760 hours per year, except for the emergency generators, which are calculated based on a maximum capacity of 500 hours per year.

* Based on the worst case emissions from either natural gas or No. 2 fuel oil combustion

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

Company Name: Clark Memorial Hospital
Address City IN Zip: 1220 Missouri Avenue, Jeffersonville, IN 47130
Permit: 019-28930-00043
Reviewer: Christine L. Filutze
Date: February 17, 2010

Two (2) natural gas fired boilers EU 01 and EU 02 max heat input capacity = 15 MMBtu/hr each (30 MMBtu total)
 One (1) natural gas fired boiler EU 03 max heat input capacity = 22.5 MMBtu/hr
 Two (2) natural gas fired boilers EU 04 and EU 05 max heat input capacity = .93 MMBtu/hr each (1.86 MMBtu total)
 One (1) natural gas fired boiler MA-01 max heat input capacity = 2.05 MMBtu/hr

Heat Input Capacity
MMBtu/hr

Potential Throughput
MMCF/yr

56.4

494.2

Emission Factor in lb/MMCF	Pollutant					
	PM*	PM10*	SO2	NOx	VOC	CO
	1.9	7.6	0.6	100.0 **see below	5.5	84.0
Potential Emission in tons/yr	0.5	1.9	0.1	24.7	1.4	20.8

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

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

Methodology

All emission factors are based on normal firing.

MMBtu = 1,000,000 Btu

MMCF = 1,000,000 Cubic Feet of Gas

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

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

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

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

See next page for HAPs emissions calculations.

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

Company Name: Clark Memorial Hospital
Address City IN Zip: 1220 Missouri Avenue, Jeffersonville, IN 47130
Permit: 019-28930-00043
Reviewer: Christine L. Filutze
Date: February 17, 2010

Two (2) natural gas fired boilers EU 01 and EU 02 max heat input capacity = 15 MMBtu/hr each (30 MMBtu total)

One (1) natural gas fired boiler EU 03 max heat input capacity = 22.5 MMBtu/hr

One (1) natural gas fired boiler MA max heat input capacity = 2.4 MMBtu/hr

HAPs - Organics

Emission Factor in lb/MMcf	Benzene 2.1E-03	Dichlorobenzene 1.2E-03	Formaldehyde 7.5E-02	Hexane 1.8E+00	Toluene 3.4E-03
Potential Emission in tons/yr	5.189E-04	2.965E-04	1.853E-02	4.447E-01	8.401E-04

HAPs - Metals

Emission Factor in lb/MMcf	Lead 5.0E-04	Cadmium 1.1E-03	Chromium 1.4E-03	Manganese 3.8E-04	Nickel 2.1E-03
Potential Emission in tons/yr	1.235E-04	2.718E-04	3.459E-04	9.389E-05	5.189E-04

Total HAPs	4.663E-01
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Methodology is the same as previous page.

The five highest organic and metal HAPs emission factors are provided above.

Additional HAPs emission factors are available in AP-42, Chapter 1.4.

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

Company Name: Clark Memorial Hospital
Address, City IN Zip: 1220 Missouri Avenue, Jeffersonville, IN 47130
Permit: 019-28930-00043
Reviewer: Christine L. Filutze
Date: February 17, 2010

Heat Input Capacity
MMBtu/hr

Potential Throughput
kgals/year

S = Weight % Sulfur

0.25

52.5

3285.0

2 fuel oil as backup for natural gas fired boilers EU 01, EU 02, and EU 03.

Total heat capacity includes EU 01 rated at 15 MMBtu/hr, EU 02 rated at 15 MMBtu/hr and EU 03 rated at 22.5 MMBtu/hr.

Emission Factor in lb/kgal	Pollutant					
	PM*	PM-10*	SO2	NOx	VOC	CO
	2.0	3.3	35.5	20.0	0.34	5.0
Potential Emission in tons/yr	3.3	5.4	58.3	32.9	0.6	8.2

Methodology

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

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

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

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

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

See next page for HAPs emission calculations.

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

Company Name: Clark Memorial Hospital
Address, City IN Zip: 1220 Missouri Avenue, Jeffersonville, IN 47130
Permit: 019-28930-00043
Reviewer: Christine L. Filutze
Date: February 17, 2010

2 fuel oil as backup for natural gas fired boilers EU 01, EU 02, and EU 03.

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	9.20E-04	6.90E-04	6.90E-04	6.90E-04	2.07E-03

HAPs - Metals (continued)

Emission Factor in lb/mmBtu	Mercury 3.0E-06	Manganese 6.0E-06	Nickel 3.0E-06	Selenium 1.5E-05
Potential Emission in tons/yr	6.90E-04	1.38E-03	6.90E-04	3.45E-03

Total HAPs	1.13E-02
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Methodology is the same as previous page.

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
Internal Combustion Engines - Diesel Fuel
Turbine (<600 HP)
Emergency Generators**

Company Name: Clark Memorial Hospital
Address City IN Zip: 1220 Missouri Avenue, Jeffersonville, IN 47130
Permit: 019-28930-00043
Reviewer: Christine L. Filutze
Date: February 17, 2010

Emissions calculated based on output rating (hp)

One (1) emergency diesel generator (Diesel Gen IS Dept),
constructed in 2009, with max heat input capacity of 470 HP.

Heat Input Capacity Horsepower (hp)	Potential Throughput hp-hr/yr
470.0	235000.0

Emission Factor in lb/hp-hr	Pollutant					
	PM*	PM10*	SO2	NOx	VOC	CO
	0.0022	0.0022	0.0021	0.0310	0.0025	0.0067
Potential Emission in tons/yr	0.26	0.26	0.24	3.64	0.30	0.78

Methodology

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

Emission Factors are from AP42 (Supplement B 10/96), Table 3.3-1

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

*PM 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.

Appendix A: Emission Calculations
Reciprocating Internal Combustion Engines - Natural Gas
Maximum Input Rate (<=4.2 MMBtu/hr)

Company Name: Clark Memorial Hospital
Address City IN Zip: 1220 Missouri Avenue, Jeffersonville, IN 47130
Permit: 019-28930-00043
Reviewer: Christine L. Filutze
Date: February 17, 2010

Emissions calculated based on heat input capacity (MMBtu/hr)

One (1) emergency natural gas generator (Nat Gas Gen - Med Plaza), constructed in 2008, with max with max heat input capacity of 0.561 MMBtu/hr.

Heat Input Capacity (MMBtu/hr)	0.561
Maximum Hours Operated per Year	500
Potential Throughput (MMBtu/yr)	281

	Criteria Pollutant						
	PM	PM10	PM2.5	SO2	NOx	VOC	CO
Emission Factor in lb/MMBtu	9.91E-03	7.71E-05	7.71E-05	5.88E-04	4.08E+00	1.18E-01	3.17E-01
Potential Emission in tons/yr	1.39E-03	1.08E-05	1.08E-05	8.25E-05	0.57	0.02	0.04

Emission Factors are from AP-42, Table 3.2-2 (7/00).

Hazardous Air Pollutants (HAPs)

	HAP Pollutant						
	Benzene	Toluene	Xylene	1,3-Butadiene	Formaldehyde	Acetaldehyde	Acrolein
Emission Factor in lb/MMBtu	4.40E-04	4.08E-04	1.84E-04	2.67E-04	5.28E-02	8.36E-03	5.14E-03
Potential Emission in tons/yr	6.17E-05	5.72E-05	2.58E-05	3.74E-05	7.41E-03	1.17E-03	7.21E-04

Potential Emission of Total HAPs (tons/yr)	9.48E-03
---	-----------------

Methodology

Emission Factors are from AP-42, Table 3.2-2 (7/00).

Potential Throughput (MMBtu/yr) = [Heat Input Capacity (MMBtu/hr)] * [Maximum Hours Operated per Year]

Potential Emission (tons/yr) = [Potential Throughput (MMBtu/yr)] * [Emission Factor (lb/MMBtu)] / [2,000 lb/ton]

Appendix A: Emission Calculations
Reciprocating Internal Combustion Engines - Natural Gas
Maximum Input Rate (<=4.2 MMBtu/hr)

Company Name: Clark Memorial Hospital
Address City IN Zip: 1220 Missouri Avenue, Jeffersonville, IN 47130
Permit: 019-28930-00043
Reviewer: Christine L. Filutze
Date: February 17, 2010

Emissions calculated based on heat input capacity (MMBtu/hr)

One (1) emergency natural gas generator (Nat Gas Gen - Clark Health Dept), constructed in 2008, with max with max heat input capacity of 0.3375 MMBtu/hr.

Heat Input Capacity (MMBtu/hr)	0.3375
Maximum Hours Operated per Year	500
Potential Throughput (MMBtu/yr)	169

	Criteria Pollutant						
	PM	PM10	PM2.5	SO2	NOx	VOC	CO
Emission Factor in lb/MMBtu	9.91E-03	7.71E-05	7.71E-05	5.88E-04	4.08E+00	1.18E-01	3.17E-01
Potential Emission in tons/yr	8.36E-04	6.51E-06	6.51E-06	4.96E-05	0.34	0.01	0.03

Emission Factors are from AP-42, Table 3.2-2 (7/00).

Hazardous Air Pollutants (HAPs)

	HAP Pollutant						
	Benzene	Toluene	Xylene	1,3-Butadiene	Formaldehyde	Acetaldehyde	Acrolein
Emission Factor in lb/MMBtu	4.40E-04	4.08E-04	1.84E-04	2.67E-04	5.28E-02	8.36E-03	5.14E-03
Potential Emission in tons/yr	3.71E-05	3.44E-05	1.55E-05	2.25E-05	4.46E-03	7.05E-04	4.34E-04

Potential Emission of Total HAPs (tons/yr)	5.70E-03
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Methodology

Emission Factors are from AP-42, Table 3.2-2 (7/00).

Potential Throughput (MMBtu/yr) = [Heat Input Capacity (MMBtu/hr)] * [Maximum Hours Operated per Year]

Potential Emission (tons/yr) = [Potential Throughput (MMBtu/yr)] * [Emission Factor (lb/MMBtu)] / [2,000 lb/ton]



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

SENT VIA U.S. MAIL: CONFIRMED DELIVERY AND SIGNATURE REQUESTED

TO: Don Ingle
Clark Memorial Hospital
1220 Missouri Ave
Jeffersonville, IN 47130

DATE: February 17, 2010

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

SUBJECT: Final Decision
Notice-Only Change
019-28930-00043

Enclosed is the final decision and supporting materials for the air permit application referenced above. Please note that this packet contains the original, signed, permit documents.

The final decision is being sent to you because our records indicate that you are the contact person for this application. However, if you are not the appropriate person within your company to receive this document, please forward it to the correct person.

A copy of the final decision and supporting materials has also been sent via standard mail to:
Fred Horlander - VP
Jennifer Triplett - Environmental Compliance Source
OAQ Permits Branch Interested Parties List

If you have technical questions regarding the enclosed documents, please contact the Office of Air Quality, Permits Branch at (317) 233-0178, or toll-free at 1-800-451-6027 (ext. 3-0178), and ask to speak to the permit reviewer who prepared the permit. If you think you have received this document in error, please contact Joanne Smiddie-Brush of my staff at 1-800-451-6027 (ext 3-0185), or via e-mail at jbrush@idem.IN.gov.

Final Applicant Cover letter.dot 11/30/07

Mail Code 61-53

IDEM Staff	GHOTOPP 2/17/2010 Clark Memorial Hospital 019-28930-00043 Final		Type of Mail: CERTIFICATE OF MAILING ONLY	AFFIX STAMP HERE IF USED AS CERTIFICATE OF MAILING
Name and address of Sender		Indiana Department of Environmental Management Office of Air Quality – Permits Branch 100 N. Senate Indianapolis, IN 46204		

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1		Don Ingle Clark Memorial Hospital 1220 Missouri Ave Jeffersonville IN 47130 (Source CAATS) via confirmed delivery										
2		Fred Horlander VP Clark Memorial Hospital 1220 Missouri Ave Jeffersonville IN 47130 (RO CAATS)										
3		Ms. Rhonda England 17213 Persimmon Run Rd Borden IN 47106-8604 (Affected Party)										
4		Ms. Betty Hislip Silver Lakes Trailer Pk 13131 Sunnybrook Dr Memphis IN 47143-9672 (Affected Party)										
5		Mrs. Sandy Banet 514 Haddox Rd Henryville IN 47126 (Affected Party)										
6		Jeffersonville City Council and Mayors Office 500 Quarter Master Jeffersonville IN 47130 (Local Official)										
7		Mr. Robert Bottom Paddlewheel Alliance P.O. Box 35531 Louisville KY 40232-5531 (Affected Party)										
8		Clark County Board of Commissioners 501 E. Court Avenue Jeffersonville IN 47130 (Local Official)										
9		Clark County Health Department 1320 Duncan Avenue Jeffersonville IN 47130-3723 (Health Department)										
10		Jennifer Triplett Environmental Compliance Source PO Box 6849 New Albany IN 47151 (Consultant)										
11												
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