



Mitchell E. Daniels, Jr.  
Governor

Thomas W. Easterly  
Commissioner

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

TO: Interested Parties / Applicant  
DATE: August 15, 2006  
RE: Good Samaritan Hospital / 083-22842-00027  
FROM: Nisha Sizemore  
Chief, Permits Branch  
Office of Air Quality

### Notice of Decision: Approval - Effective Immediately

Please be advised that on behalf of the Commissioner of the Department of Environmental Management, I have issued a decision regarding the enclosed matter. Pursuant to IC 13-17-3-4 and 326 IAC 2, this approval is effective immediately, unless a petition for stay of effectiveness is filed and granted, and may be revoked or modified in accordance with the provisions of IC 13-15-7-1.

If you wish to challenge this decision, IC 4-21.5-3-7 and IC 13-15-7-3 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 Environmental Adjudication, 100 North Senate Avenue, Government Center North, Room 1049, 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-MOD.dot 03/23/06



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August 15, 2006

Mr. Scott Kaminski  
Good Samaritan Hospital  
520 South Seventh Street  
Vincennes, Indiana 47591-1038

Re: 083-22842-00027  
First Minor Source Modification to:  
Part 70 permit No.: T083-7971-00027

Dear Mr. Kaminski:

Good Samaritan Hospital was issued Part 70 operating permit T087-7971-00027 on July 22, 1999 for a stationary hospital operating a medical waste incinerator and emergency generators. An application to modify the source was received on March 22, 2006. Pursuant to 326 IAC 2-7-10.5d)(4)(B), the following modifications to existing emission units are approved at the source:

The modification consists of a change in the method of operation to operate four (4) existing electricity generators (GEN1, GEN2, GEN3, and GEN4) up to a maximum of 1000 hours of operation per year for each generator.

The following construction conditions are applicable to the proposed project:

General Construction Conditions

1. The data and information supplied with the application shall be considered part of this source modification approval. Prior to any proposed change in construction which may affect the potential to emit (PTE) of the proposed project, the change must be approved by the Office of Air Quality (OAQ).
2. This approval to construct does not relieve the permittee of the responsibility to comply with the provisions of the Indiana Environmental Management Law (IC 13-11 through 13-20; 13-22 through 13-25; and 13-30), the Air Pollution Control Law (IC 13-17) and the rules promulgated thereunder, as well as other applicable local, state, and federal requirements.
3. Effective Date of the Permit  
Pursuant to IC 13-15-5-3, this approval becomes effective upon its issuance.
4. Pursuant to 326 IAC 2-1.1-9 and 326 IAC 2-7-10.5(i), the Commissioner may revoke this approval if construction is not commenced within eighteen (18) months after receipt of this approval or if construction is suspended for a continuous period of one (1) year or more.
5. All requirements and conditions of this construction approval shall remain in effect unless modified in a manner consistent with procedures established pursuant to 326 IAC 2.
6. Pursuant to 326 IAC 2-7-10.5(l) the emission units constructed under this approval shall not be placed into operation prior to revision of the source's Part 70 Operating Permit to incorporate the required operation conditions.

This significant source modification authorizes construction of the new emission units. Operating conditions shall be incorporated into the Part 70 operating permit renewal in accordance with 326 IAC 2-7-10.5(l)(3). Operation is not approved until the Part 70 operating permit renewal has been issued.

Pursuant to Contract No. A305-5-65, IDEM, OAQ has assigned the processing of this application to Eastern Research Group, Inc., (ERG). Therefore, questions should be directed to Stephen Treimel, ERG, 1600 Perimeter Park Drive, Morrisville, North Carolina 27560, or call (919) 468-7902 to speak directly to Mr. Treimel. Questions may also be directed to Duane Van Laningham at IDEM, OAQ, 100 North Senate Avenue, Indianapolis, Indiana, 46204-2251, or call (800) 451-6027 and ask for Duane Van Laningham or extension 3-6878, or dial (317) 233-6878.

Sincerely,

Origin signed by

Nisha Sizemore, Chief  
Permits Branch  
Office of Air Quality

Attachments: TSD, Appendix A (calculations)  
ERG/ST

cc: File - Knox County  
Knox County Health Department  
Southwest Regional Office  
Air Compliance Section Inspector – Derrick Ohning  
Compliance Data Section  
Administrative and Development  
Technical Support and Modeling - Michele Boner



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## PART 70 OPERATING PERMIT OFFICE OF AIR QUALITY

**Good Samaritan Hospital  
520 South Seventh Street  
Vincennes, Indiana 47591-1038**

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

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

This permit is issued in accordance with 326 IAC 2 and 40 CFR Part 70 Appendix A and contains the conditions and provisions specified in 326 IAC 2-7 and 326 IAC 2-1-3.2 as required by 42 U.S.C. 7401, et. seq. (Clean Air Act as amended by the 1990 Clean Air Act Amendments), 40 CFR Part 70.6, IC 13-15 and IC 13-17.

Operation Permit No.: T 083-7971-00027	
Issued by: Janet G. McCabe, Assistant Commissioner Office of Air Quality	Issuance Date: July 22, 1999 Expiration Date: July 22, 2004
1st Reopening 083-13346-00027 1st Administrative Amendment 083-16801-00027 2nd Administrative Amendment 083-20624-00027	Issuance Date: December 14, 2001 Issuance Date: January 15, 2003 Issuance Date: November 1, 2005
1st Minor Source Modification 083-22842-00027	Pages Affected: Entire Permit
Issued by: Origin signed by Nisha Sizemore, Chief Permits Branch Office of Air Quality	Issuance Date: August 15, 2006

## SECTION A

## SOURCE SUMMARY

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

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

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

Responsible Official: Vice President, Professional & Support Services  
Source Address: 520 South Seventh Street, Vincennes, Indiana 47591-1038  
Mailing Address: Same  
SIC Code: 8062  
County Location: Knox  
County Status: Attainment for all criteria pollutants  
Source Status: Part 70 Permit Program  
Minor Source, under PSD  
Area Source, Section 112 of the Clean Air Act

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

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

- (a) One (1) large Medical Waste Incinerator, rated at 4.8 MMBtu per hour, identified as EU1, constructed in 1992, with a maximum charge rate of less than 500 pounds per hour of medical waste. Emissions shall be exhausted at stack S1.
- (b) Two (2) natural gas fired boilers using distillate fuel for backup, identified as EU2 and EU3, each rated at 46 MMBtu per hour, and constructed in 1969, with both exhausting at stack S2.
- (c) One (1) Diesel fuel-fired electricity generator, identified as GEN1, rated at 450 kilowatts, and constructed in 1969.
- (d) One (1) Diesel fuel-fired electricity generator, identified as GEN2, rated at 420 kilowatts, and constructed in 1982.
- (e) One (1) Diesel fuel-fired electricity generator, identified as GEN3, rated at 420 kilowatts, and constructed in 1982.
- (f) One (1) Diesel fuel-fired electricity generator, identified as GEN4, rated at 370 kilowatts, and constructed in 1998.

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

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

- (a) The following equipment related to manufacturing activities not resulting in the emission of HAPs; brazing equipment, cutting torches, soldering equipment, welding equipment.

- (b) Grinding and machining operations controlled with fabric filters, scrubbers, mist collectors, wet collectors, and electrostatic precipitators with a design grain loading of less than or equal to 0.03 grains per actual cubic foot and a gas flow rate less than or equal to 4000 actual cubic feet per minute, including the following: deburring; buffing; polishing; abrasive blasting; pneumatic conveying; and woodworking operations.

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

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

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

## SECTION D.3

## FACILITY OPERATION CONDITIONS

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

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

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

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

#### D.3.1 Minor Source Modification Limit [326 IAC 2-7-10.5(d)]

The four (4) generators shall each be limited to 1000 hours of operation per twelve (12) consecutive month period, with compliance determined at the end of each month. Compliance with this limit makes this modification minor, pursuant to 326 IAC 2-7-10.5(d)(4)(D).

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

#### D.3.2 Monitoring Requirements

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

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

#### D.3.3 Record Keeping Requirements

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

#### D.3.4 Reporting Requirements

A quarterly summary of the information to document compliance with Condition D.3.1 shall be submitted to the addresses listed in Section C - General Reporting Requirements, of this permit, using the reporting forms located at the end of this permit, or their equivalent, within thirty (30) calendar days after the end of the quarter being reported. The report submitted by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

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

### Part 70 Quarterly Report

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

QUARTER \_\_\_\_\_

YEAR \_\_\_\_\_

GEN1	Hours Operated This Month	Hours Operated Previous 11 Months	12-Month Total

GEN2	Hours Operated This Month	Hours Operated Previous 11 Months	12-Month Total

GEN3	Hours Operated This Month	Hours Operated Previous 11 Months	12-Month Total

GEN4	Hours Operated This Month	Hours Operated Previous 11 Months	12-Month Total

Submitted by: \_\_\_\_\_

Title / Position: \_\_\_\_\_

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

Phone: \_\_\_\_\_

A certification by the responsible official is required for this report.

# Indiana Department of Environmental Management Office of Air Quality

## Technical Support Document (TSD) for a Minor Source Modification to a Part 70 Operating Permit

### Source Description and Location

Source Name: Good Samaritan Hospital  
Source Location: 520 South 7th Street, Vincennes, Indiana 47591-1038  
County: Knox  
SIC Code: 8062  
Operation Permit No.: 083-7971-00027  
Operation Permit Issuance Date: July 22, 1999  
Minor Source Modification No.: 083-22842-00027  
Permit Reviewer: ERG/ST

### Existing Approvals

The emission source was issued Part 70 Operating Permit 083-7971-00027 on July 22, 1999. The source has since received the following approvals:

- (a) Reopening 083-13346-00027, issued December 14, 2001;
- (b) First Administrative Amendment 083-16801-00027, issued January 15, 2003; and
- (c) Second Administrative Amendment 083-20624-00027, issued on November 1, 2005.

The source submitted a renewal application for a Part 70 Operating Permit on October 15, 2003. At this time, the renewal application, 083-18224-00027, is still under review.

### County Attainment Status

The emission source is located in Knox County.

Pollutant	Status
PM <sub>10</sub>	attainment
PM <sub>2.5</sub>	attainment
SO <sub>2</sub>	attainment
NO <sub>2</sub>	attainment
8-hour Ozone	attainment
CO	attainment
Lead	attainment

**Note:** On August 7, 2006, a temporary emergency rule took effect redesignating Delaware, Greene, Jackson, Vanderburgh, Vigo and Warrick Counties to attainment for the eight-hour ozone standard, redesignating Lake County to attainment for the sulfur dioxide standard, and revoking the one-hour ozone standard in Indiana. The Indiana Air Pollution Control Board has approved a permanent rule revision to incorporate these changes into 326 IAC 1-4-1. The permanent revision to 326 IAC 1-4-1 will take effect prior to the expiration of the emergency rule.

- (a) 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. Knox 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) Knox County has been classified as attainment for PM<sub>2.5</sub>. U.S. EPA has not yet established the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2 for PM<sub>2.5</sub> emissions. Therefore, until the U.S. EPA adopts specific provisions for PSD review for PM<sub>2.5</sub> emissions, it has directed states to regulate PM<sub>10</sub> emissions as a surrogate for PM<sub>2.5</sub> emissions.
- (c) Knox County has been classified as attainment or unclassifiable in Indiana for all other pollutants. Therefore, these emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.

**Source Status**

The table below summarizes the potential to emit of the entire source, prior to the proposed modification, after consideration of all enforceable limits established in the effective permits:

Pollutant	Emissions (tons/year)
PM	9.31
PM10	13.2
SO <sub>2</sub>	126
VOC	2.27
CO	39.5
NO <sub>x</sub>	69.3

This existing source is not a major stationary source, under PSD (326 IAC 2-2), because no regulated pollutant is emitted at a rate of 250 tons per year or more, and it is not one of the twenty-eight (28) listed source categories, as specified in 326 IAC 2-2-1(gg)(1).

The table below summarizes the potential to emit HAPs for the entire source, prior to the proposed modification, after consideration of all enforceable limits established in the effective permits:

HAPs	Potential To Emit (tons/year)
Single HAP	Less than 10
Combination HAPs	Less than 10

This existing source is not a major source of HAPs, as defined in 40 CFR 63.41, because HAPs emissions are less than ten (10) tons per year for any single HAP and less than twenty-five (25) tons per year of a combination of HAPs. Therefore, this source is an area source under Section 112 of the Clean Air Act (CAA).

**Actual Emissions**

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

Pollutant	Actual Emissions (tons/year)
PM	1
PM10	1
SO <sub>2</sub>	0
VOC	0
CO	4

Pollutant	Actual Emissions (tons/year)
NO <sub>x</sub>	5
HAP	Not Reported

### Description of Proposed Modification

The Office of Air Quality (OAQ) has reviewed an application, submitted by Good Samaritan Hospital on March 22, 2006, relating to the operation of a medical hospital located at 520 South 7th Street, Vincennes, Indiana 47591-1038. The application involves a request to operate each of the following four (4) existing electricity generators up to a maximum of 1000 hours of operation per year each:

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

These four (4) electricity generators are presently classified as insignificant activities, as defined in 326 IAC 2-7-1(21)(G)(xxii)(BB). However, they will lose this classification because they will no longer be used solely for emergencies, as defined in 326 IAC 2-7-1(12), and they will no longer be limited to only 500 hours of operation per year.

### Enforcement Issues

There are no enforcement actions pending against this emission source.

### Emission Calculations

See Appendix A of this document for detailed emission calculations (1 page).

### Permit Level Determination – Part 70

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

The following table is used to determine the appropriate permit level under 326 IAC 2-7-10.5. This table reflects the PTE before controls. Control equipment is not considered federally enforceable until it has been required in a federally enforceable permit.

Pollutant	PTE Before Modification (500 hours each generator) (tons/year)	PTE After Modification (1,000 hours each generator) (tons/year)	Net Difference (tons/year)
PM	0.35	0.69	0.35
PM10	0.34	0.68	0.34
SO <sub>2</sub>	0.49	0.99	0.49
VOC	0.41	0.81	0.41
CO	1.31	2.62	1.31
NO <sub>x</sub>	5.79	11.6	5.79
HAPs	0.008	0.016	0.008

This source modification is subject to 326 IAC 2-7-10.5(d)(4)(D) because the PTE of the modification is limited to less than twenty-five (25) tons per year for any regulated pollutant by limiting the hours of operation. Additionally, the modification will be incorporated into the Part 70 Operating Permit through a significant permit modification issued pursuant to 326 IAC 2-7-12(d) because the modification involves significant changes to the existing reporting and record keeping requirements. IDEM has determined that the significant permit modification will be included as part of the Title V Renewal when the permit is sent out for public notice, and there will not be a separate significant permit modification issued.

**Permit Level Determination – PSD**

The table below summarizes the increase in potential to emit, reflecting all limits, of the emission units.

Emission Unit	PM	PM <sub>10</sub>	SO <sub>2</sub>	NO <sub>x</sub>	VOC	CO
GEN1 (450 kW)	0.04	0.02	0.19	1.23	0.03	0.33
GEN2 (420 kW)	0.11	0.11	0.10	1.58	0.13	0.34
GEN3 (420 kW)	0.11	0.11	0.10	1.58	0.13	0.34
GEN4 (370 kW)	0.10	0.10	0.09	1.39	0.11	0.30
Total	0.36	0.34	0.49	5.78	0.41	1.31
Major Source Threshold	250	250	250	250	250	250

This modification to an existing minor stationary source is not major because the emission increase of all attainment regulated pollutants is less than the PSD major source thresholds. Therefore, pursuant to 326 IAC 2-2, the PSD requirements do not apply. This source will remain a minor source under PSD after this modification because the PTE of all regulated pollutants will remain less than 250 tons per year.

**Federal Rule Applicability Determination**

- (a) There are no New Source Performance Standards (NSPS)(326 IAC 12 and 40 CFR Part 60) included for this proposed modification.
- (b) There are no National Emission Standards for Hazardous Air Pollutants (NESHAP)(326 IAC 14, 326 IAC 20 and 40 CFR Part 63) included for this proposed modification.

**State Rule Applicability Determination – Entire Source**

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

This modification to an existing minor stationary source is not major because the emissions increase of all attainment regulated pollutants is less than the PSD major source thresholds. Therefore, pursuant to 326 IAC 2-2, the PSD requirements do not apply.

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

This source is not subject to 326 IAC 2-4.1-1 (New Source Toxics Control). The source does not have potential to emit greater than ten (10) tons per year for a single HAP or greater than twenty-five (25) tons per year for a combination of HAPs.

326 IAC 2-6 (Emission Reporting)

Since this source is required to have an operating permit under 326 IAC 2-7, this source is subject to 326 IAC 2-6 (Emission Reporting). Pursuant to 326 IAC 2-6-3(b)(3), starting in 2006 and every three (3) years thereafter, the Permittee shall submit by July 1 an emission statement covering the previous calendar year. The emission statement shall contain, at a minimum, the information specified in 326 IAC 2-6-4.

326 IAC 2-7 (Part 70 Permit Program)

The source's potential to emit (as defined in 326 IAC 2-7-1(29)) of sulfur dioxide (SO<sub>2</sub>) is equal to or greater than 100 tons per year. Therefore, the source is subject to the provisions of 326 IAC 2-7.

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 Alternative Opacity Limitations), 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.

<b>State Rule Applicability Determination – Four (4) Electricity Generators</b>
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326 IAC 7-1.1 (Sulfur Dioxide Emission Limitations)

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

<b>Compliance Determination and Monitoring Requirements</b>
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Permits issued under 326 IAC 2-7 are required to ensure that sources can demonstrate compliance with all applicable state and federal rules on a continuous basis. All state and federal rules contain compliance provisions, however, these provisions do not always fulfill the requirement for a continuous demonstration. When this occurs IDEM, OAQ, in conjunction with the source, must develop specific conditions to satisfy 326 IAC 2-7-5. As a result, Compliance Determination Requirements are included in the permit. The Compliance Determination Requirements in Section D of the permit are those conditions that are found directly within state and federal rules and the violation of which serves as grounds for enforcement action.

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

The Compliance Determination Requirements applicable to this modification are as follows:

- (a) The four (4) generators shall each be equipped with a meter which measures the total amount of operating time that the generator has been used. The number of hours used

per calendar month shall be recorded at the end of each month for each generator. Compliance with the limit on hours of operation shall be calculated within 30 days of the end of each month based on the generator usage for the twelve (12) consecutive month period.

### Proposed Changes

The changes listed below are being proposed to Part 70 Operating Permit No. 083-7971-00027. Deleted language appears as ~~strikethroughs~~ and new language appears in **bold**:

1. Changes to Section A.1 have been made to correct and update information about the source.

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

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

Responsible Official: ~~Richard Hand, Director of Engineering~~ **Vice President, Professional & Support Services**  
Source Address: 520 South Seventh Street, Vincennes, Indiana ~~47951~~ **47591-1038**  
Mailing Address: Same  
SIC Code: ~~0806~~ **8062**  
County Location: Knox  
County Status: Attainment for all criteria pollutants  
Source Status: Part 70 Permit Program  
Minor Source, under PSD  
~~Major~~ **Area** Source, Section 112 of the Clean Air Act

2. Changes to Section A.2 and Section D as a result of this modification are as follows:

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

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

- (a) One (1) large Medical Waste Incinerator, rated at 4.8 MMBtu per hour, identified as EU1, constructed in 1992, with a maximum charge rate of less than 500 pounds per hour of medical waste. Emissions shall be exhausted at stack S1.
- (b) Two (2) natural gas fired boilers using distillate fuel for backup, identified as EU2 and EU3, each rated at 46 MMBtu per hour, and constructed in 1969, with both exhausting at stack S2.
- (c) **One (1) Diesel fuel-fired electricity generator, identified as GEN1, rated at 450 kilowatts, and constructed in 1969.**
- (d) **One (1) Diesel fuel-fired electricity generator, identified as GEN2, rated at 420 kilowatts, and constructed in 1982.**
- (e) **One (1) Diesel fuel-fired electricity generator, identified as GEN3, rated at 420 kilowatts, and constructed in 1982.**
- (f) **One (1) Diesel fuel-fired electricity generator, identified as GEN4, rated at 370 kilowatts, and constructed in 1998.**

## SECTION D.3 FACILITY OPERATION CONDITIONS

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

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

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

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

#### D.3.1 Minor Source Modification Limit [326 IAC 2-7-10.5(d)]

The four (4) generators shall each be limited to 1000 hours of operation per twelve (12) consecutive month period, with compliance determined at the end of each month. Compliance with this limit makes this modification minor, pursuant to 326 IAC 2-7-10.5(d)(4)(D).

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

#### D.3.2 Monitoring Requirements

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

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

#### D.3.3 Record Keeping Requirements

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

#### D.3.4 Reporting Requirements

A quarterly summary of the information to document compliance with Condition D.3.1 shall be submitted to the addresses listed in Section C - General Reporting Requirements, of this permit, using the reporting forms located at the end of this permit, or their equivalent, within thirty (30) calendar days after the end of the quarter being reported. The report submitted by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

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

### Part 70 Quarterly Report

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

QUARTER \_\_\_\_\_

YEAR \_\_\_\_\_

GEN1	Hours Operated This Month	Hours Operated Previous 11 Months	12-Month Total

GEN2	Hours Operated This Month	Hours Operated Previous 11 Months	12-Month Total

GEN3	Hours Operated This Month	Hours Operated Previous 11 Months	12-Month Total

GEN4	Hours Operated This Month	Hours Operated Previous 11 Months	12-Month Total

Submitted by: \_\_\_\_\_

Title / Position: \_\_\_\_\_

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

Phone: \_\_\_\_\_

A certification by the responsible official is required for this report.

<b>Conclusion and Recommendation</b>
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The operation of the proposed modification shall be subject to the conditions of the attached proposed Part 70 Minor Source Modification No. 083-22842-00027. The staff recommend to the Commissioner that this Part 70 Minor Source Modification be approved.

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

Company Name: Good Samaritan Hospital  
Address: 520 South Seventh Street, Vincennes, Indiana 47591  
Title V: 083-18224-00027  
Reviewer: ERG/ST  
Date: June 16, 2006

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

S = Weight % Sulfur
0.5

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

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

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

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

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

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

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

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

#### Methodology

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

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

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

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