

# Bloomington Hospital

601 W. Second Street  
P.O. Box 1149  
Bloomington, IN 47402  
bloomingtonhospital.org

January 27, 2010

United States  
Nuclear Regulatory Commission  
Region III  
2443 Warrenville Road, Suite 210  
Lisle, Illinois 60532-4352

Re: License No. 13-10408-02

To Whom It May Concern:

We are requesting that our license be amended to add Gregory M. Sutliff, M.D. and Jennifer Peterson Goldspiel, M.D. as authorized user for categories 10 CFR 35.100 and 10 CFR 35.200 limited to cardiovascular studies.

Dr. Sutliff currently is authorized on NRC License No. 13-32020-01 and Dr. Peterson Goldspiel appears on Illinois License No. IL-02208-01. Copies of these licenses are enclosed.

Thank you for your attention to this matter.

Sincerely yours,

William G. Van de Riet, Ph.D., DABR  
Radiological Physicist and RSO

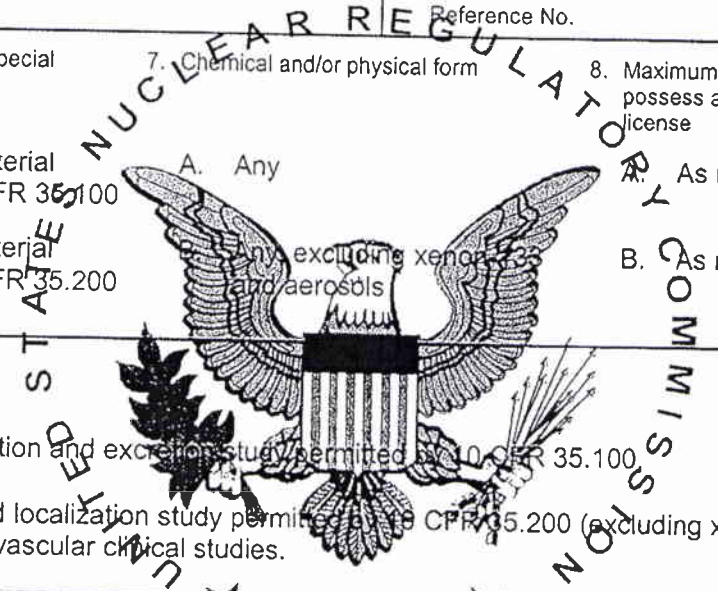
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MATERIALS LICENSE

rsuant to the Atomic Energy Act of 1954, as amended, the Energy Reorganization Act of 1974 (Public Law 93-438), and Title 10, Code of Federal Regulations, Chapter I, Parts 30, 31, 32, 33, 34, 35, 36, 39, 40, and 70, and in reliance on statements and representations heretofore made by the licensee, a license is hereby issued authorizing the licensee to receive, acquire, possess, and transfer byproduct, source, and special nuclear material designated below; to use such material for the purpose(s) and at the place(s) designated below; to deliver or transfer such material to persons authorized to receive it in accordance with the regulations of the applicable Part(s). This license shall be deemed to contain the conditions specified in Section 183 of the Atomic Energy Act of 1954, as amended, and is subject to all applicable rules, regulations, and orders of the Nuclear Regulatory Commission now or hereafter in effect and to any conditions specified below.

Licensee 1. Internal Medicine Associates  2. 550 Landmark Avenue Bloomington, IN 47403	In accordance with the letter dated <b>April 27, 2005</b> , 3. License number 13-32020-01 is amended in its entirety to read as follows: 4. Expiration date October 31, 2012 5. Docket No. 030-34523 Reference No.
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6. Byproduct, source, and/or special nuclear material  A. Any byproduct material permitted by 10 CFR 35.100 B. Any byproduct material permitted by 10 CFR 35.200	7. Chemical and/or physical form A. Any B. Any excluding xenon-133 and aerosols	8. Maximum amount that licensee may possess at any one time under this license A. As needed B. As needed
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9. Authorized Use: A. Any uptake, dilution and excretion study permitted by 10 CFR 35.100 B. Any imaging and localization study permitted by 10 CFR 35.200 (excluding xenon-133 and aerosols) limited to cardiovascular clinical studies.
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CONDITIONS

- 10. Licensed material shall be used only at the licensee's facilities located at 550 Landmark Avenue, Bloomington, Indiana.
- 11. The Radiation Safety Officer for this license is Gregory M. Sutliff, M.D.

OSM 5/13/05

**MATERIALS LICENSE  
SUPPLEMENTARY SHEET**

License Number  
13-32020-01

Docket or Reference Number  
030-34523

Amendment No. 6

12. Licensed material is only authorized for use by, or under the supervision of:

- A. Individuals permitted to work as an authorized user in accordance with 10 CFR 35.13 and 35.14.
- B. The following individuals are authorized users for medical use as indicated:

Authorized Users

Material and Use

- A. Gregory M. Sutliff, M.D.      10 CFR 35.100 and 35.200 (excluding xenon-133 and aerosols) limited to cardiovascular clinical studies.
- B. Louise Annette Alpert, M.D.      10 CFR 35.100 and 35.200 (excluding xenon-133 and aerosols) limited to cardiovascular clinical studies.

- 13. Notwithstanding the requirements of 10 CFR 35.22, the licensee is not required to establish a Radiation Safety Committee.
- 14. In addition to the possession limits in 10 CFR 35.21, the licensee shall further restrict the possession of licensed material to quantities below the minimum amount in 10 CFR 30.35(d) for establishing decommissioning financial assurance.
- 15. The licensee is authorized to transport licensed material in accordance with the provisions of 10 CFR Part 71, "Packaging and Transportation of Radioactive Material."



**MATERIALS LICENSE  
SUPPLEMENTARY SHEET**License Number  
13-32020-01Docket or Reference Number  
030-34523

Amendment No. 6

16. Except as specifically provided otherwise in this license, the licensee shall conduct its program in accordance with the statements, representations, and procedures contained in the documents, including any enclosures, listed below. This license condition applies only to those procedures that are required to be submitted in accordance with the regulations. Additionally, this license condition does not limit the licensee's ability to make changes to the radiation protection program as provided for in 10 CFR 35.26. The U.S. Nuclear Regulatory Commission's regulations shall govern unless the statements, representations, and procedures in the licensee's application and correspondence are more restrictive than the regulations.

A. Application dated June 25, 2002; and

B. Letter dated October 1, 2002.



FOR THE U.S. NUCLEAR REGULATORY COMMISSION

Date JUL 25 2005

By

William P. Reichhold  
Materials Licensing Branch  
Region III

STATE OF ILLINOIS  
ILLINOIS EMERGENCY MANAGEMENT AGENCY  
DIVISION OF NUCLEAR SAFETY

**RADIOACTIVE MATERIAL LICENSE**

1035 OUTER PARK DRIVE  
SPRINGFIELD, ILLINOIS 62704

Pursuant to the Illinois Radiation Protection Act and the rules and regulations in 32 Illinois Administrative Code promulgated thereunder, and in reliance on statements and representations heretofore made by the licensee, a license is hereby issued authorizing the licensee to receive, acquire, own, possess and transfer radioactive material(s) listed herein; and to use such radioactive material(s) for the purpose(s) and at the place(s) designated below. This license is subject to all applicable rules, regulations and orders of the Agency now or hereafter in effect and to any conditions specified in the license.

LICENSEE  
Heart Horizons, LLC  
2088 Ogden Avenue, Suite 150  
Aurora, IL 60504

LICENSE NUMBER  
IL-02208-01

EXPIRATION DATE  
June 30, 2008

AMENDMENT NUMBER  
3

Attention: Dana M. Balicki  
Executive Director

In accordance with letters dated April 27 and June 4, 2004, License Number IL-02208-01 is amended in its entirety. Previous amendments are void.

ITEM	RADIONUCLIDE	CHEMICAL and/or PHYSICAL FORM	MAXIMUM ACTIVITY* PER SOURCE	MAXIMUM POSSESSION LIMIT
A.	Any in 32 Ill. Adm. Code 335.2040	Any calibration or reference source identified in 32 Ill. Adm. Code 335.2040.		As needed
B.	Any in 32 Ill. Adm. Code 335.3010	Any radiopharmaceutical identified in 32 Ill. Adm. Code 335.3010.		As needed
C.	Any in 32 Ill. Adm. Code 335.4010	Any radiopharmaceutical identified in 32 Ill. Adm. Code 335.4010, excluding generators and gases.		As needed
D.	Gd-153	Sealed Source -- IPL Model A-3410 or Dupont Merck Model NES-8426	120 mCi	240 mCi

\* μCi-microcurie; mCi-millicurie; Ci-Curie; MBq-Megabecquerel; GBq-Gigabecquerel; TBq-Terabecquerel; g-gram; μg-microgram; kg-kilogram

APPROVED BY:

DATE

PAGE of PAGES

*for Charles G. Vinson*  
Charles G. Vinson, Supervisor of Materials Licensing  
IL 473-0099

July 20, 2004

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STATE OF ILLINOIS  
IEMA DIVISION OF NUCLEAR SAFETY  
RADIOACTIVE MATERIAL LICENSE

LICENSEE	LICENSE NUMBER	AMENDMENT NUMBER	EXPIRATION DATE
Heart Horizons, LLC	IL-02208-01	3	June 30, 2008

AUTHORIZED USE:

- A. For use as calibration and reference sources.
- B. Any medical use identified in 32 Ill. Adm. Code 335.3010, for clinical cardiology studies only.
- C. Any medical use identified in 32 Ill. Adm. Code 335.4010, for clinical cardiology studies only.
- D. For use in a Siemens Medical Solutions USA, Inc. "Profile Attenuation Correction System" line source holder/attenuation correction device.

CONDITIONS

1. Radioactive material shall be used only at the licensee's facilities located at 2088 Ogden Avenue, Aurora, Illinois in accordance with statements, representations and procedures listed in other conditions of this license.
2. Radioactive material is authorized for use by, or under the supervision of, the following individual(s) for the materials and uses indicated:

<b>Santosh Gill, M.D.</b>	<b>All</b>
Jennifer Peterson Goldspiel, M.D.	All
3. The Radiation Safety Officer for this license is Jennifer Peterson Goldspiel, M.D.
4. The licensee shall decontaminate or restrict access to each area described in 32 Ill. Adm. Code 335.2080(d) for which removable radioactive contamination is found to exceed 2000 dpm/100 cm<sup>2</sup>. This monitoring must be performed to ensure that decontamination was effective or decay reduced the levels adequately. Records of monitoring must contain the information specified in 32 Ill. Adm. Code 335.2080(f).
5.
  - A. Each sealed source possessed under this license shall be tested for leakage and/or contamination as specified in 32 Ill. Adm. Code 340.410. Tests for leakage and/or contamination shall be performed by persons specifically licensed to provide such services.
  - B. This license does not authorize analysis of leak test samples. However, the licensee is authorized to collect leak test samples for analysis by persons specifically authorized by the Agency, an Agreement State, a Licensing State, or the U.S. Nuclear Regulatory Commission to perform such services.

\*  $\mu$ Ci-microcurie; mCi-millicurie; Ci-Curie; MBq-Megabecquerel; GBq-Gigabecquerel; TBq-Terabecquerel; g-gram;  $\mu$ g-microgram; kg-kilogram

APPROVED BY:

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PAGE of PAGES

Charles G. Vinson, Supervisor of Materials Licensing

July 20, 2004

2

4

STATE OF ILLINOIS  
 IEMA DIVISION OF NUCLEAR SAFETY  
 RADIOACTIVE MATERIAL LICENSE

LICENSEE	LICENSE NUMBER	AMENDMENT NUMBER	EXPIRATION DATE
Heart Horizons, LLC	IL-02208-01	3	June 30, 2008

6. Except as otherwise specifically provided by this license, radioactive material to be administered to humans shall be procured in prepackaged, pre-calibrated form from a supplier who manufactures, labels, packages, or repackages the product in accordance with all applicable state and federal laws and rules related to appropriate pharmaceutical controls for assay, identity, quality, purity, sterility and nonpyrogenicity.
7. Investigational New Drugs (IND) labeled with radioactive material shall not be used in human beings until the individual user has filed with the Federal Food and Drug Administration the required documentation in accordance with 21 CFR 312.1, and the exemption has not been terminated.
8. The licensee is authorized to receive, possess and transfer depleted uranium in amounts not greater than 999 kg for use as shielding material.
9. Notwithstanding the distribution requirements of 32 Ill. Adm. Code 335.1090, the licensee may receive, possess, and use naturally-occurring or accelerator-produced radioactive material (NARM) specifically authorized by this license and distributed by a supplier located in a non-Licensing State.
10. Sealed sources containing radioactive material shall not be opened.
11. The licensee may use the Calcorp, Inc. "Calicheck" device or the Atomic Products Corp. "Lineator" device for linearity tests of their dose calibrator(s). Such tests shall be performed in strict accordance with the procedures contained in the device manufacturer's instruction manual. A copy of the appropriate device manufacturer's instruction manual shall be maintained at the licensee's facility if one of these devices is used.
12. The licensee is authorized to store waste containing, or comprised of, radioactive material with a physical half-life of less than 90 days for "decay-in-storage" before disposal with the following provisions:
  - A. Radioactive waste to be disposed of shall be held for decay a minimum of ten half-lives.
  - B. Pursuant to 32 Ill. Adm. Code 340.510(a) and (b), radiation surveys shall be performed prior to disposal of the waste to ensure that the waste's radioactivity cannot be distinguished from background radiation levels. The package/container surface shall be surveyed with an appropriate radiation detection survey instrument set on its most sensitive scale, with no interposed shielding between the detector and the waste, in a low background radiation environment. Records of monitoring shall be maintained to include: date of disposal; date placed in storage; manufacturer, model and serial number of the survey instrument used; background radiation levels; measured radiation levels; and identity of the individual performing the monitoring. All radiation labels shall be removed or obliterated.

\*  $\mu$ Ci-microcurie; mCi-millicurie; Ci-Curie; MBq-Megabecquerel; GBq-Gigabecquerel; TBq-Terabecquerel; g-gram;  $\mu$ g-microgram; kg-kilogram

APPROVED BY:

DATE

PAGE of PAGES

Charles G. Vinson, Supervisor of Materials Licensing  
 IL 473-0059

July 20, 2004

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STATE OF ILLINOIS  
 IEMA DIVISION OF NUCLEAR SAFETY  
 RADIOACTIVE MATERIAL LICENSE

LICENSEE	LICENSE NUMBER	AMENDMENT NUMBER	EXPIRATION DATE
Heart Horizons, LLC	IL-02208-01	3	June 30, 2008

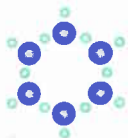
(Condition 12. continued)

- C. Generator columns shall be segregated from their shields and other waste and monitored separately to ensure decay to background levels prior to disposal.
  - D. Nothing in this condition relieves the licensee from complying with other applicable federal, state, and local regulations governing any other toxic or hazardous property of these materials.
13. The licensee shall have radiation survey instrument(s) used to establish compliance with 32 Ill. Adm. Code calibrated by a person specifically authorized by the Agency, an Agreement State, a Licensing State, or the U.S. Nuclear Regulatory Commission to perform such services. Records of radiation survey instrument calibrations shall be maintained for Agency inspection.
14. Except as specifically provided otherwise by the license, the licensee shall possess and use radioactive material described in all schedules of this license in accordance with statements, representations and procedures contained in, referenced in, or enclosed with the documents listed below. The regulations contained in 32 Ill. Adm. Code: Chapter II, Subchapters b and d shall govern unless the statements, representations and procedures in the licensee's application and correspondence are more restrictive than the regulations. The most recent statements, representations and procedures listed below shall govern if they conflict with previously submitted documents.
- A. Application dated May 8, 2003.
  - B. Letter dated September 12, 2003.
  - C. Telefacsimile dated January 21, 2004.

CGV:DSP

\*  $\mu$ Ci-microcurie; mCi-millicurie; Ci-Curie; MBq-Megabecquerel; GBq-Gigabecquerel; TBq-Terabecquerel; g-gram;  $\mu$ g-microgram; kg-kilogram





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Bloomington, IN 47402

Return Service Requested

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FIRST CLASS



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JAN 28 2010

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United States Nuclear Regulatory Commission  
Region III  
Materials Licensing Branch  
2443 Warrenville Road Ste 210  
Lisle, Illinois 60532-4352

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