



UNITED STATES  
**NUCLEAR REGULATORY COMMISSION**  
REGION I  
475 ALLENDALE ROAD  
KING OF PRUSSIA, PENNSYLVANIA 19406-1415

September 6, 2006

Docket No. 03003350  
Control No. 139044

License No. 45-11367-02

Alan Bailey  
Administrative Director of Medical Diagnostics  
St. Mary's Hospital  
5801 Bremon Road  
Richmond, VA 23226

SUBJECT: ST. MARY'S HOSPITAL, LICENSE AMENDMENT, CONTROL NO. 139044

Dear Mr. Bailey:

This refers to your license amendment request dated June 21, 2006. Enclosed with this letter is the amended license.

Please review the enclosed document carefully and be sure that you understand and fully implement all the conditions incorporated into the amended license. If there are any errors or questions, please notify the U.S. Nuclear Regulatory Commission, Region I Office, Licensing Assistance Team, (610) 337-5239, so that we can provide appropriate corrections and answers.

An environmental assessment for this action is not required, since this action is categorically excluded under 10 CFR 51.22(c)(14).

Current NRC regulations and guidance are included on the NRC's website at [www.nrc.gov](http://www.nrc.gov); select **Nuclear Materials; Medical, Academic, and Industrial Uses of Nuclear Material**; then **Toolkit Index Page**. Or you may obtain these documents by contacting the Government Printing Office (GPO) toll-free at 1-888-293-6498. The GPO is open from 7:00 a.m. to 8:00 p.m. EST, Monday through Friday (except Federal holidays).

Thank you for your cooperation.

Sincerely,

***Original signed by Shirley Xu***

Shirley Xu  
Health Physicist  
Medical Branch  
Division of Nuclear Materials Safety

Enclosure:  
Amendment No. 62

cc:  
Douglas Cook, M.D., Radiation Safety Officer

A. Bailey  
St. Mary's Hospital

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**SUNSI Review Complete: SXu**

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NAME	SXu/SX							
DATE	9/6/2006							

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**MATERIALS LICENSE**

Pursuant 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.

<p style="text-align: center;">Licensee</p> <p>1. St. Mary's Hospital</p> <p>2. 5801 Bremon Road Richmond, Virginia 23226</p>	<p>In accordance with the letter dated June 21, 2006,</p> <p>3. License number 45-11367-02 is amended in its entirety to read as follows:</p> <hr/> <p>4. Expiration date January 31, 2011</p> <hr/> <p>5. Docket No. 030-03350 Reference No.</p>
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|---|---|--|
| 6. Byproduct, source, and/or special nuclear material | 7. Chemical and/or physical form  | 8. Maximum amount that licensee may possess at any one time under this license |
| A. Any byproduct material permitted by 10 CFR 35.100  | A. Any  | A. As needed   |
| B. Any byproduct material permitted by 10 CFR 35.200  | B. Any  | B. As needed   |
| C. Any byproduct material permitted by 10 CFR 35.300  | C. Any  | C. 1.5 curies  |
| D. Any byproduct material permitted by 10 CFR 35.400  | D. Sealed Sources (3M Model 6500 Series; Isotope Products Labs Models 67-800 and 67-820 Series; Medi-physics, Inc. Model 6711 Oncoseed) | D. 2 curies  |
| E. Strontium 90                                       | E. Sealed Source (Amersham Corp. Model SIA.20)  | E. 80 millicuries  |
| F. Depleted Uranium                                   | F. Metal  | F. 300 kilograms   |
| G. Cesium 137   | G. Sealed Sources (Amersham Corp. Model No. 77302)  | G. 165 millicuries   |

**MATERIALS LICENSE  
SUPPLEMENTARY SHEET**License Number  
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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.
- C. Any diagnostic study or therapy procedure permitted by 10 CFR 35.300.
- D. Any manual brachytherapy procedure permitted by 10 CFR 35.400.
- E. For storage only incident to disposal.
- F. Shielding in a linear accelerator.
- G. For possession and use in an Amertest survey meter calibration device.

## CONDITIONS

- 10. Licensed material may be used or stored only at the licensee's facilities located at St Mary's Hospital, 5801 Bremono Road, Richmond, Virginia; and Bon Secours-Richmond Community Hospital, 1500 North 28<sup>th</sup> Street, Richmond, Virginia. Licensed material authorized by 10 CFR 35.65 may be used in the licensee's mobile PET/CT scanning unit.
- 11. The Radiation Safety Officer for this license is Douglas Cook, M.D.
- 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 UsersMaterial and Use

James Elam Bosworth, M.D.	35.100; 35.200
Douglas E. Cook, M.D.	35.100; 35.200; 35.300
Robert Goldschmidt, M.D.	35.100; 35.200
Mitchell S. Reese, M.D.	35.100; 35.200
Janette L. Worthington, M.D.	35.100; 35.200
Judy Ling Chin, M.D.	35.300; 35.400
George A. Trivette, M.D.	35.400
Valerie A. Brookeman, Ph.D., M.D.	35.100; 35.200; 35.300
Jay M. Levine, M.D.	35.100; 35.200; 35.300 except thyroid carcinoma
Jean M. DuFour, M.D.	35.100; 35.200

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Authorized UsersMaterial and Use

Brian Pacious, M.D.

35.100; 35.200; 35.300 except thyroid carcinoma

David Randolph, M.D.

35.300; 35.400

Karen Killeen, M.D.

35.100; 35.200; 35.300

Jessica Berliner, M.D.

35.100; 35.200; 35.300

Alan Vaden Padgett, M.D.

35.100; 35.200

Mark E. Vaughn, M.D.

35.100; 35.200

Jo Anne Walker, M.D.

35.300

C. The following individual is authorized user for non-medical uses as indicated:

UserMaterial and Use

Alfred M. Strash, Ph.D.

Non-medical uses for Depleted Uranium, Cs-137 and Sr-90

13. In addition to the possession limits in Item 8, the licensee shall further restrict the possession of licensed material to quantities below the minimum limit specified in 10 CFR 30.35(d) for establishing decommissioning financial assurance.
14. The licensee is authorized to transport licensed material in accordance with the provisions of 10 CFR Part 71, "Packaging and Transportation of Radioactive Material."
15. Sealed sources or detector cells containing licensed material shall not be opened or sources removed from source holders by the licensee.
16. The licensee shall conduct a physical inventory every six months, or at other intervals approved by the U.S. Nuclear Regulatory Commission, to account for all sources and/or devices received and possessed under the license. Records of inventories shall be maintained for 5 years from the date of each inventory and shall include the radionuclides, quantities, manufacturer's name and model numbers, and the date of the inventory.
17. For sealed sources not associated with 10 CFR Part 35 use, the following conditions apply:
- A. Sealed sources shall be tested for leakage and/or contamination at intervals not to exceed six months or at the intervals specified in the certificate of registration issued by the U.S. Nuclear Regulatory Commission under 10 CFR 32.210 or under equivalent regulations of an Agreement State.

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- B. In the absence of a certificate from a transferor indicating that a leak test has been made within the intervals specified in the certificate of registration issued by the U.S. Nuclear Regulatory Commission under 10 CFR 32.210 or under equivalent regulations of an Agreement State, prior to the transfer, a sealed source received from another person shall not be put into use until tested and the test results received.
- C. Sealed sources need not be tested if they are in storage and are not being used; however, when they are removed from storage for use or transferred to another person and have not been tested within the required leak test interval, they shall be tested before use or transfer. No sealed source shall be stored for a period of more than 10 years without being tested for leakage and/or contamination.
- D. The leak test shall be capable of detecting the presence of 0.005 microcurie (185 becquerels) of radioactive material on the test sample. If the test reveals the presence of 0.005 microcurie (185 becquerels) or more of removable contamination, a report shall be filed with the U.S. Nuclear Regulatory Commission in accordance with 10 CFR 30.50(c)(2), and the source shall be removed immediately from service and decontaminated, repaired, or disposed of in accordance with Commission regulations.
- E. Tests for leakage and/or contamination, including leak test sample collection and analysis, shall be performed by the licensee or by other persons specifically licensed by the U.S. Nuclear Regulatory Commission or an Agreement State to perform such services.
- F. Records of leak test results shall be kept in units of microcuries and shall be maintained for 5 years.



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18. 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 August 29, 2000 (ML003745835)  
B. Letter dated October 31, 2003 (ML0330400412)



For the U.S. Nuclear Regulatory Commission

Date September 6, 2006

***Original signed by Shirley Xu***  
By \_\_\_\_\_  
Shirley Xu  
Medical Branch  
Division of Nuclear Materials Safety  
Region I  
King of Prussia, Pennsylvania 19406