

**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>Licensee</p> <p>1. Retreat Doctors' Hospital, - A Campus of Henrico Doctors' Hospital</p> <p>2. 2621 Grove Avenue Richmond, Virginia 23220</p>	<p>In accordance with the letter dated February 26, 2009,</p> <p>3. License number 45-15048-01 is amended in its entirety to read as follows:</p> <hr/> <p>4. Expiration date May 31, 2014</p> <hr/> <p>5. Docket No. 03008485 Reference No.</p>
---	--

<p>6. Byproduct, source, and/or special nuclear material</p> <p>A. Any byproduct material permitted by 10 CFR 35.100</p> <p>B. Any byproduct material permitted by 10 CFR 35.200</p> <p>C. Any byproduct material permitted by 10 CFR 35.300</p> <p>D. Any byproduct material permitted by 10 CFR 35.400</p> <p>E. Any byproduct material permitted by 10 CFR 31.11</p>	<p>7. Chemical and/or physical form</p> <p>A. Any</p> <p>B. Any</p> <p>C. Any</p> <p>D. Sealed Sources (Bard Brachytherapy, Inc. Model STM 1251)</p> <p>E. Prepackaged Kits</p>	<p>8. Maximum amount that licensee may possess at any one time under this license</p> <p>A. As needed</p> <p>B. As needed</p> <p>C. 300 millicuries</p> <p>D. 1 curie</p> <p>E. 3 millicuries</p>
---	---	---

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. Storage incident to disposal.
  - E. In vitro studies.

**CONDITIONS**

- 10. Licensed material may be used or stored only at the licensee's facilities located at 2621 Grove Avenue, Richmond, Virginia.

**MATERIALS LICENSE  
SUPPLEMENTARY SHEET**

License Number  
45-15048-01

Docket or Reference Number  
03008485

Amendment No. 45

11. The Radiation Safety Officer for this license is Timothy Taylor, 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:

<u>Authorized Users</u>	<u>Material and Use</u>
James J. Zelenak, M.D.	35.100; 35.200; 35.300; <i>in vitro</i> studies
Matthew L. Cohen, M.D.	35.100; 35.200
B. Gerald Yount, M.D.	35.100; 35.200; <i>in vitro</i> studies
George W. Martin, M.D.	35.100; 35.200; Oral administration of sodium iodide Iodine-131 in quantities less than or equal to 33 millicuries; <i>in vitro</i> studies
Efstathios Spinos, M.D.	35.100; 35.200; 35.300; <i>in vitro</i> studies
Craig D. McCormick, M.D.	35.100; 35.200; <i>in vitro</i> studies
Scott Cunningham, M.D.	35.100; 35.200; <i>in vitro</i> studies
Timothy R. Taylor, M.D.	35.100; 35.200; <i>in vitro</i> studies
Ray A. Beauchamp, M.D.	35.100; 35.200; <i>in vitro</i> studies
R. West Fuller, M.D.	35.100; 35.200; 35.300; <i>in vitro</i> studies
W. Powell Baker, M.D.	35.100; 35.200; <i>in vitro</i> studies
J. Keith Thompson, M.D.	35.100; 35.200; 35.300; <i>in vitro</i> studies
Jeffrey E. Hull, M.D.	35.100; 35.200; <i>in vitro</i> studies
Diran Bezirdjian, M.D.	35.100; 35.200; <i>in vitro</i> studies

**MATERIALS LICENSE  
SUPPLEMENTARY SHEET**

License Number  
45-15048-01

Docket or Reference Number  
03008485

Amendment No. 45

Authorized Users

Material and Use

Vasundhara Raval, M.D.	35.100; 35.200; 35.300; <i>in vitro</i> studies
Lowery H. Holthaus, M.D.	35.100; 35.200; <i>in vitro</i> studies
Gerry Lee Reece, M.D.	35.100; 35.200; 35.300; <i>in vitro</i> studies
Kiernan Cross, M.D.	35.100; 35.200; <i>in vitro</i> studies
Melanie Fidler, M.D.	35.100; 35.200; <i>in vitro</i> studies
Robert Fidler, M.D.	35.100; 35.200; <i>in vitro</i> studies
Jacquelyn Hogge, M.D.	35.100; 35.200; <i>in vitro</i> studies
William J. Pommersheim, M.D.	35.100; 35.200; <i>in vitro</i> studies
Julius Hurwitz, M.D.	35.100; 35.200; <i>in vitro</i> studies
Atul Aggarwal, M.D.	35.100; 35.200; Oral administration of sodium iodide I-131; <i>in vitro</i> studies
Arnold J. Kuta, M.D.	35.100; 35.200; <i>in vitro</i> studies

C. The following individuals are authorized users for non-medical uses as indicated:

Authorized Users

Material and Use

Van H. McComas, M.S.	I-125 (Supervision of storage)
----------------------	--------------------------------

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."

**MATERIALS LICENSE  
SUPPLEMENTARY SHEET**License Number  
45-15048-01Docket or Reference Number  
03008485

Amendment No. 45

15. 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 December 15, 2003 (ML033630048)
  - B. Letter dated July 27, 2005 (ML052170155)
  - C. Letter dated February 14, 2006 (ML060740331)
  - D. Letter dated April 19, 2006 (ML061170587)
  - E. Letter dated October 25, 2006 (ML063070556)
  - F. Letter received October 26, 2006 (ML063120490)
  - G. Letter dated July 7, 2008 (ML082070182)
  - H. Letter dated September 19, 2008 (ML082690696)



For the U.S. Nuclear Regulatory Commission

Date March 10, 2009

By

***Original signed by Richard McKinley***

---

Richard McKinley  
Medical Branch  
Division of Nuclear Materials Safety  
Region I  
King of Prussia, Pennsylvania 19406