NRC FORM 374 | U.S. NUCLEAR REGULATORY COMMISSION |

Amendment No. 59

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.

JC 02/20 316641

Licensee	
	In accordance with letters dated **October 25, 2007, and November 13, 2007,**
1. Bloomington Hospital	3. License number 13-10408-02 is amended its entirety to read as follows:
2. P.O. Box 1149 Bloomington, IN 47402	4. Expiration date August 31, 2010
	5. Docket No. 030-01644 Reference No.

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. As needed (not to exceed one curie of iodine-131)
D. Any byproduct material permitted by 10 CFR 35.400	D. **Sealed sources (Isotopes Products Laboratories (Nuclear Associates) Model 67-800 Series, IsoRay, Model CS-1, North American Scientific, Inc., Model MED 3631 and MED 3633, Best Medical International, Inc., Model 2300 Series, 3M Health Physics Services, Model 6711 and Amersham Corp., Model CDC.CY102)**	D. **Not to exceed 2000 millicuries for cesium-137, not to exceed 500 millicuries for iodine-125 and not to exceed1600 millicuries for palladium-103**
E. Any byproduct material permitted by 10 CFR 31.11	E. Prepackaged Kits	E. As needed
F. Gadolinium-153	F. Sealed sources (North American Scientific, Inc. Model 3601)	F. 4 sources, not to exceed 300 millicuries each

9. Authorized Use:

MATERIALS LICENSE
SUPPLEMENTARY SHEET

License Number
13-10408-02

Docket or Reference Number
030-01644

Amendment No. 59

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. In vitro studies.

F. Two sources to be used in an Adac Laboratories Transmission Line Source Housing VANTAGE device for medical radiography in humans. Two sources in shipping containers for replacement of the sources.

CONDITIONS

10. A. Licensed material shall be used only at the licensee's facilities located at 605-625 West Second Street, Bloomington, Indiana.

B. Licensed material in Item 6.C., limited to strontium-89, phosphorus-32, and samarium-153, may be received and used at the licensee's facilities located at 2620 Cota Drive, Bloomington, Indiana.

11. The Radiation Safety Officer for this license is [redacted] Van de Riet, Ph.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 Users	Material and Use
Bharati R. Kharkar, M.D.	10 CFR 35.300 **(for iodine-131, oral administration of sodium iodide-131 in quantities less than or equal to 33 millicuries)**, 35.400, and 31.11.
David Y. Lee, M.D.	10 CFR 35.300 (**(for iodine-131, oral administration of sodium iodide-131 in quantities less than or equal to 33 millicuries)**), 35.400 and 31.11.
Louise Annette Alpert, M.D.	10 CFR 35.100 and 35.200.

MATERIALS LICENSE
SUPPLEMENTARY SHEET

License Number
13-10408-02

Docket or Reference Number
030-01644

Amendment No. 59

Sean M. Flynn, M.D.	10 CFR 35.100, 35.200, 10 CFR 35.300 **(for iodine-131, oral administration of sodium iodide-131 in quantities less than or equal to 33 millicuries)**, 31.11 and gadolinium-153 for medical radiography.
Douglas D. Geiger, M.D.	10 CFR 35.100, 35.200, 31.11 and gadolinium-153 for medical radiography.
Bruce N. Monson, M.D.	10 CFR 35.100, 35.200, 10 CFR 35.300 **(for iodine-131, oral administration of sodium iodide-131 in quantities less than or equal to 33 millicuries)**, 31.11 and gadolinium-153 for medical radiography.
Mark A. Bisesi, M.D.	10 CFR 35.100, 35.200, 10 CFR 35.300 **(for iodine-131, oral administration of sodium iodide-131 in quantities less than or equal to 33 millicuries)**, 31.11 and gadolinium-153 for medical radiography.
Chris W. McGary, M.D.	10 CFR 35.100, 35.200, 10 CFR 35.300 **(for iodine-131, oral administration of sodium iodide-131 in quantities less than or equal to 33 millicuries)**, 31.11 and gadolinium-153 for medical radiography.
T. L. Megremis, M.D.	10 CFR 35.100, 35.200, 10 CFR 35.300 **(for iodine-131, oral administration of sodium iodide-131 in quantities less than or equal to 33 millicuries)**, 31.11 and gadolinium-153 for medical radiography.
John Alexander, M.D.	**10 CFR 35.100, 35.200, 10 CFR 35.300 (for iodine-131, oral administration of sodium iodide-131 in quantities less than or equal to 33 millicuries), 31.11 and gadolinium-153 for medical radiography.**
Jonathan A. Staser, M.D.	**10 CFR 35.100, 35.200, 10 CFR 35.300 (for iodine-131, oral administration of sodium iodide-131 in quantities less than or equal to 33 millicuries), 31.11 and gadolinium-153 for medical radiography.**

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.

MATERIALS LICENSE
SUPPLEMENTARY SHEET

License Number
13-10408-02

Docket or Reference Number
030-01644

Amendment No. 59

14. A. Sealed sources shall be tested for leakage and/or contamination at intervals specified by the certificate or registration referred to in 10 CFR 32.210.

B. In the absence of a certificate from a transferor indicating that a leak test has been made within 6 months prior to the transfer, a sealed source received from another person shall not be put into use until tested.

C. Sealed sources need not be leak tested if they are in storage and 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 shall be performed by the licensee or by other persons specifically licensed by the Commission or an Agreement State to perform such services.

15. The licensee shall conduct a physical inventory every 3 months to account for all Item 6.F. sources and/or devices received and possessed. Records of inventories shall be maintained for 5 years from the date of each inventory and shall include the information required in 10 CFR 35.59(g).

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.

MATERIALS LICENSE
SUPPLEMENTARY SHEET

License Number
13-10408-02

Docket or Reference Number
030-01644

Amendment No. 59

A. Application dated March 28, 2000 (excluding Quality Management Program materials); and

B. Letter dated March 2, 2005.

FOR THE U.S. NUCLEAR REGULATORY COMMISSION

Date JAN 14 2008

By _____
James R. Mullauer, M.H.S.
Materials Licensing Branch
Region III