

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.

PC 02230

3/5669

Licensee

1. West Michigan Cancer Center

2. 200 North Park Street
Kalamazoo, MI 49007In accordance with letter dated **August 22, 2006**
and **September 6, 2006**,3. License number 21-32501-01 is amended in its
entirety to read as follows:

4. Expiration date June 30, 2014

5. Docket No. 030-36539

Reference No.

6. Byproduct, source, and/or special
nuclear materialA. Iridium-192 permitted by 10
CFR 35.600

B. Strontium-90

C. Any byproduct material
permitted by 10 CFR 35.300
(excluding
iodine-131)

7. Chemical and/or physical form

A. Sealed sources (Varian
Medical Systems, Inc.
Model GammaMed 232)B. Sealed source
(Physikalisch-Technische
Werkstätten Model No.
PTW-09)

C. Any

8. Maximum amount that licensee may
possess at any one time under this
licenseA. Two sources not to exceed
15 curies each

B. 900 microcuries

C. As needed

9. Authorized Use:

- A. One source for medical use, as permitted by 10 CFR 35.600, in a Varian Medical Systems, Inc. Model GammaMed Plus remote afterloading brachytherapy device. The source activity may not exceed 10.5 curies at the time of installation. One source (not to exceed 15 curies while stored pending installation) in a shipping container for source replacement.
- B. To be used in a Physikalisch-Technische Werkstätten Model No. PTW-09 device for calibrating ionization chambers.
- C. Any therapy procedure permitted by 10 CFR 35.300 for which the patient may be released under 10 CFR 35.75.

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CONDITIONS

10. Licensed material shall be used only at the licensee's facilities located at 200 North Park Street, Kalamazoo, Michigan.

11. **The Radiation Safety Officer for this license is Paul Jursinic, 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, and/or authorized medical physicist in accordance with 10 CFR 35.13 and 35.14.

B. The following individual is an authorized user for medical use as indicated:

Authorized UserMaterial and Use

Philip A. Purser, M.D.

10 CFR 35.300 and Iridium-192 in a remote afterloading brachytherapy device permitted by 10 CFR 35.600.

Peter B. Hardin, M.D.

10 CFR 35.300 and Iridium-192 in a remote afterloading brachytherapy device permitted by 10 CFR 35.600.

C. The following individuals are Authorized Medical Physicists:

Paul Jursinic, Ph.D.

Iridium-192 in High Dose Rate Remote Afterloading Brachytherapy device and strontium 90 sealed source for calibrations, spot checks and training. ★ ★ ★

Renu K. Sharma, M.S.

Iridium-192 in High Dose Rate Remote Afterloading Brachytherapy device and strontium 90 sealed source for calibrations, spot checks and training.

Zubin H. Bharucha, M.S.

Iridium-192 in High Dose Rate Remote Afterloading Brachytherapy device and strontium 90 sealed source for calibrations, spot checks and training.

13. The licensee is authorized to transport licensed material only in accordance with the provisions of 10 CFR Part 71, "Packaging and Transportation of Radioactive Material."

14. A. Sealed sources listed in Subitem No. 6.B. shall be tested for leakage and/or contamination at intervals not to exceed 6 months or at such other intervals as specified by the certificate of registration referred to in 10 CFR 32.210.

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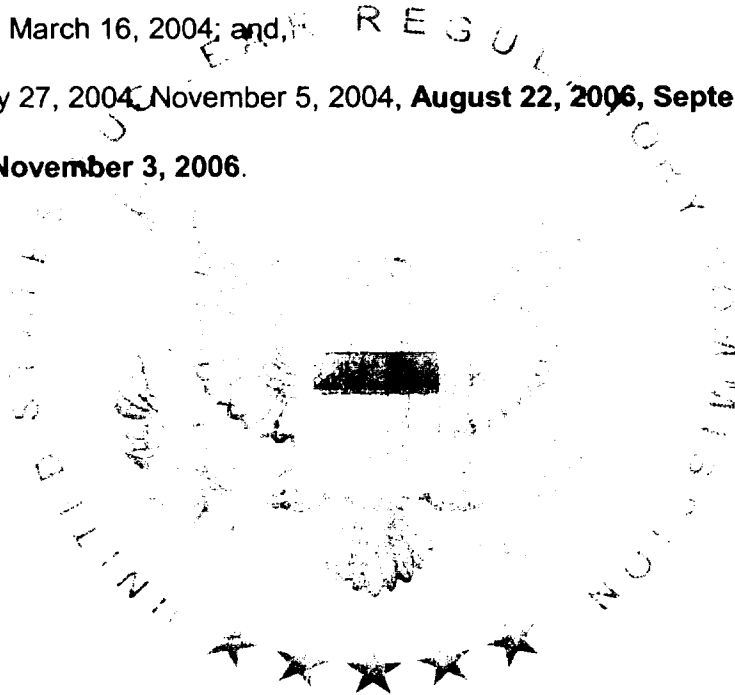
- B. In the absence of a certificate from a transferor indicating that a leak test has been made within 6 months prior to the transfer, a sealed source received from another person shall not be put into use until tested.
- C. Sealed sources need not be leak tested if they are in storage, and are not 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 or detector cell 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 of radioactive material on the test sample. If the test reveals the presence of 0.005 microcurie 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. 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.
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.
17. Sealed sources containing licensed material shall not be opened or sources removed from source holders by the licensee.

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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 March 16, 2004; and,
- B. Letters dated May 27, 2004, November 5, 2004, **August 22, 2006, September 6, 2006**; and
- C. Facsimile dated **November 3, 2006**.



FOR THE U.S. NUCLEAR REGULATORY COMMISSION

Date NOV 09 2006

By *Toye L. Simmons*
Toye L. Simmons
Materials Licensing Branch
Region III