

**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><b>Licensee</b></p> <p>1. Lakeland Medical Center, St. Joseph</p> <p>2. 1234 Napier Avenue St. Joseph, MI 49085</p>	<p>In accordance with letter dated <b>October 12, 2006,</b></p> <p>3. License number 21-04177-01 is amended in its entirety to read as follows:</p> <p>4. Expiration date February 28, 2015</p> <p>5. Docket No. 030-02049 Reference No.</p>
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| <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. Cesium-137 as permitted by 10 CFR 35.400</p> <p>E. Iodine-125 as permitted by 10 CFR 35.400</p> <p>F. Gadolinium-153</p> <p>G. Iridium-192 as permitted by 10 CFR 35.400</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 (3M Model Nos. 6501, 6502, 6503, 6504 and AEA Model No. CDCT1)</p> <p>E. Sealed sources (North American Scientific, Inc., Model No. MED 3631)</p> <p>F. Sealed sources (North American Scientific, Inc. Model 3601)</p> <p>G. Sealed Sources in ribbon (Best Medical International, Inc. Model 81-01 Series)</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. As needed, not to exceed 1 curie of I-131</p> <p>D. Total not to exceed 165 millicuries</p> <p>E. Total not to exceed 1 curie</p> <p>F. 4 sources not to exceed 250 millicuries each</p> <p>G. Total possession not to exceed 100 millicuries.</p> |
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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.

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- C. Any diagnostic study or therapy procedure permitted by 10 CFR 35.300.
- D. and E. Any manual brachytherapy procedure permitted by 10 CFR 35.400.
- F. Two sources to be used in Adac Laboratories Transmission Line Source Housing VANTAGE device for medical radiography in humans. Two sources in shipping containers for replacement of the sources.
- G. Any manual brachytherapy procedure permitted by 10 CFR 35.400.

CONDITIONS

10. A. Licensed material shall be used only at the licensee's facilities located at Lakeland Medical Center - St. Joseph, 1234 Napier Avenue, St. Joseph, Michigan.
- B. Licensed material listed in subitems 6.A., 6.B., 6.C., 6.E. and 6.F. may be used at Lakeland Medical Center - Niles, 31 North Saint Joseph Avenue, Niles, Michigan.
- C. Licensed material listed in subitems 6.A. and 6.B. may be used at temporary job sites of the licensee anywhere in the United States where the U.S. Nuclear Regulatory Commission maintains jurisdiction for regulating the use of licensed material.
11. A. Radiation Safety Officer for this license is David E. Steffert, M.S.
- B. The Authorized Medical Physicist for this license is Christopher Baird, M.S.
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 individuals are authorized users for medical uses:

Authorized UsersMaterial and Use

William F. Leahey, M.D.

10 CFR 35.100, 35.200, 35.300 (excluding iodine-131 for thyroid carcinoma therapy) and gadolinium-153 in VANTAGE device for medical radiography.

Roman Hyszcak, M.D.

10 CFR 35.100, 35.200 and gadolinium-153 in VANTAGE device for medical radiography.

Daniel F. Kreider, M.D.

10 CFR 35.100, 35.200, 35.300 and gadolinium-153 in VANTAGE device for medical radiography.

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Kent T. Lancaster, M.D.	10 CFR 35.100, 35.200, 35.300 and gadolinium-153 in VANTAGE device for medical radiography.
Brad Bastow, M.D.	10 CFR 35.100, 35.200 and gadolinium-153 in VANTAGE device for medical radiography.
Dilip Arora, M.D.	10 CFR 35.100, 35.200 and gadolinium-153 in VANTAGE device for medical radiography.
Brian T. Eller, M.D.	10 CFR 35.100 and 35.200.
Srinivasan Dhatreecharan, M.D.	10 CFR 35.100 and 35.200.
Peter Lai, M.D.	10 CFR 35.300 and 35.400.
Jose Cassini Pacheco, M.D.	10 CFR 35.100 and 35.200.
Denis L. Gibbs, D.O.	10 CFR 35.100 and 35.200.
Mark Ottmar, M.D.	10 CFR 35.100 and 35.200.
Thomas K. Pow, M.D.	10 CFR 35.100 and 35.200.

13. The licensee may transport licensed material in accordance with the provisions of 10 CFR Part 71, "Packaging and Transportation of Radioactive Material."
14. In addition to the possession limits in Condition 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.
15. Sealed sources containing licensed material shall not be opened or sources removed from source holders by the licensee.

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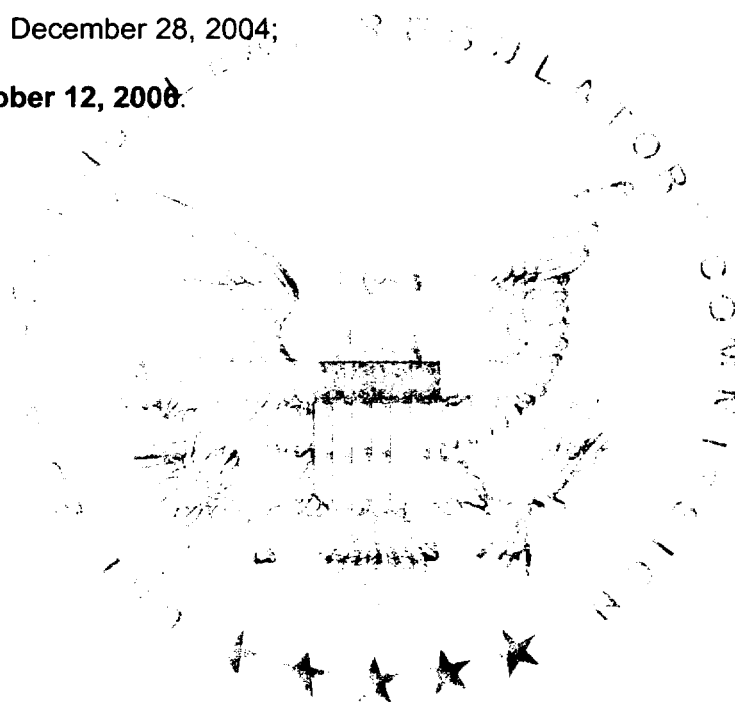
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16. Except as specifically provided otherwise in this license, the licensee shall conduct its program in accordance with the statements, representations, and procedures contained in the documents, including any enclosures, listed below. This license 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 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 28, 2004;

B. Letter dated **October 12, 2006**.



FOR THE U.S. NUCLEAR REGULATORY COMMISSION

DEC 11 2006

Date \_\_\_\_\_

By \_\_\_\_\_

Toye L. Simmons  
Materials Licensing Branch  
Region III