

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.

PC03123

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<p>Licensee</p> <p>1. State of Michigan Department of Community Health</p> <p>2. 3350 North Martin Luther King Jr. Blvd. Building 44, P.O. Box 30035 Lansing, MI 48909</p>	<p>In accordance with the letter dated July 10, 2006,</p> <p>3. License number 21-05199-03 is amended in its entirety to read as follows:</p> <p>4. Expiration date February 28, 2011</p> <p>5. Docket No. 030-04832 Reference No.</p>
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<p>6. Byproduct, source, and/or special nuclear material</p> <p>A. Nickel-63</p>	<p>7. Chemical and/or physical form</p> <p>A. Plated sources contained in Hewlett-Packard Model No. 18803-60520 detector assemblies</p>	<p>8. Maximum amount that licensee may possess at any one time under this license</p> <p>A. One cell not to exceed 15 millicuries</p>
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9. Authorized Use:

A. To be used in Hewlett-Packard gas chromatographs for sample analysis.

CONDITIONS

10. Licensed material shall be used only at the licensee's facilities located at Department of Community Health, Bureau of Laboratories, 3350 North Martin Luther King Jr. Blvd., Building 44, Lansing, Michigan.
11. A. The Radiation Safety Officer for the activities authorized by this license is **Judith Kloss Smith**.
- B. Licensed material listed in Item 6 above is authorized for use by, or under the supervision of, the following individuals for the materials and uses indicated:
- | | |
|----------------------------|------------------|
| Lawrence Warren | Nickel-63 |
| Michael O'Keefe | Nickel-63 |
| Richard Scheel, Ph.D. | Nickel-63 |
| Frances P. Downes, Ph.D. | Nickel-63 |
| Jacqueline S. Scott, Ph.D. | Nickel-63 |

**MATERIALS LICENSE
SUPPLEMENTARY SHEET**

License Number
21-05199-03

Docket or Reference Number
030-04832

Amendment No. 35

Matthew Geiger, B.S.

Nickel-63

John Riebow, Ph.D.

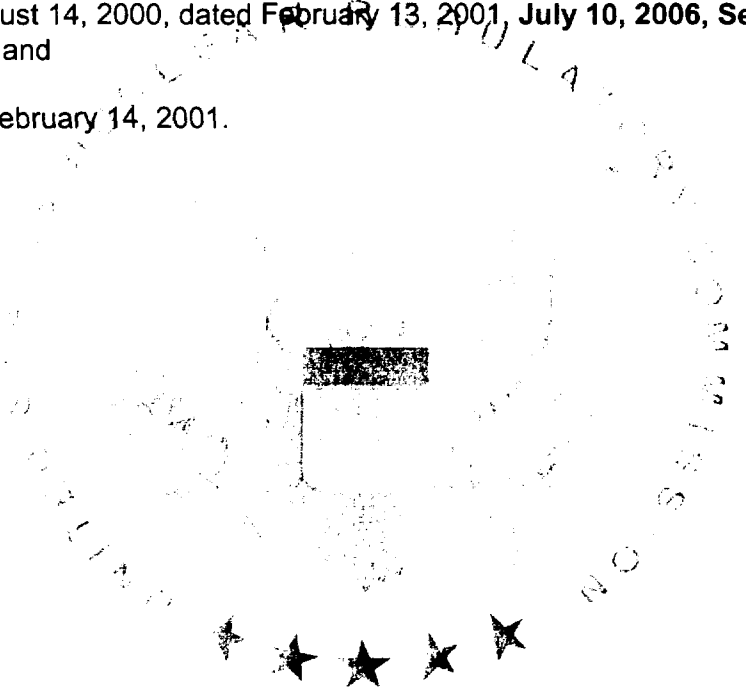
Nickel-63

12. Detector cells containing licensed material shall not be opened or the sources removed from the detector cell by the licensee.
13. Except as otherwise specified in this license, the licensee shall have available and follow the instructions contained in the manufacturer's instruction manual for the chromatography device.
14. The licensee shall conduct a physical inventory every six (6) months to account for all foil sources received and possessed under the license. The records of the inventories shall be maintained for two (2) years from the date of the inventory for inspection by the Commission, and shall include the quantities and kinds of byproduct material, manufacturer's name and model numbers, location of foil sources and the date of the inventory.
15. The licensee shall dispose of foil sources by returning to the manufacturer when their use has been discontinued.
16. A. (1) The source specified in Item 7.A shall be tested for leakage and/or contamination at intervals not to exceed 6 months. Any source received from another person which is not accompanied by a certificate indicating that a test was performed within 6 months before the transfer shall not be put into use until tested.
- (2) Notwithstanding the periodic leak test required by this condition, any licensed sealed source is exempt from such leak tests when the source contains 100 microcuries or less of beta and/or gamma emitting material or 10 microcuries or less of alpha emitting material.
- B. Any source in storage and not being used need not be tested. When the source is removed from storage for use or transfer to another person, it shall be tested before use or transfer.
- C. The 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.
- D. 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.
17. The licensee may transport licensed material in accordance with the provisions of 10 CFR Part 71, "Packaging and Transportation of Radioactive material."

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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. 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 August 14, 2000;
 - B. Letters dated August 14, 2000, dated February 13, 2001, July 10, 2006, September 14, 2006 and October 4, 2006; and
 - C. Facsimile dated February 14, 2001.



FOR THE U.S. NUCLEAR REGULATORY COMMISSION

Date OCT 05 2006By Loren J. Hueter
Loren J. Hueter
Materials Licensing Branch
Region III