

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.

Licensee	In accordance with letter dated December 19, 2007,
1. University of Detroit Mercy	3. License number 21-00241-09
2. 4001 West McNichols Road Detroit, MI 48221-3038	4. Expiration date June 30, 2018
	5. Docket No. 030-14288 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. Hydrogen-3	A. Any	A. 5 millicuries
B. Carbon-14	B. Any	B. 2 millicuries
C. Phosphorous-32	C. Any	C. 500 microcuries

9. Authorized Use:

A. through C. Laboratory research including animal studies. Teaching of students.

CONDITIONS

10. Licensed material shall be used only at the licensee's facilities located at the McNichols Campus, 4001 West McNichols Road, Detroit, Michigan.
11. A. Licensed materials shall be used by, or under the supervision of Mary Low Caspers, Ph.D. and Michael Gleason, Ph.D..
B. The Radiation Safety Officer for this license is Michael Gleason, Ph.D.
12. Licensed material shall not be used in or on humans except as provided otherwise by specific condition of this license.
13. The licensee shall not use licensed material in field applications where activity is release except as provided otherwise by specific condition of this license.
14. Experimental animals or the products from experimental animals, that have been administered licensed materials shall not be used for human consumption.
15. The licensee shall conduct a physical inventory every 6 months, or at other intervals approved by the

**MATERIALS LICENSE
SUPPLEMENTARY SHEET**License Number
21-00241-09Docket or Reference Number
030-14288

Amendment No. 09

Corrected copy

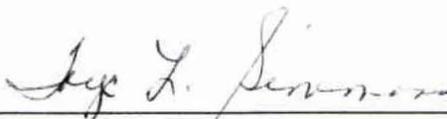
U.S. Nuclear Regulatory Commission, to account for all sources and/or devices received and possessed under the license. Records of inventories shall be maintained for 5 years from the date of each inventory, and shall include the radionuclides, quantities, manufacturer's name and model numbers, and the date of the inventory.

16. 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."
17. The licensee is authorized to hold radioactive material with a physical half-life of less than 120 days for decay-in-storage before disposal in ordinary trash provided:
- A. Before disposal as ordinary trash, byproduct material shall be surveyed at the container surface with the appropriate survey meter set on its most sensitive scale and with no interposed shielding to determine that its radioactivity cannot be distinguished from background. All radiation labels shall be removed or obliterated.
 - B. A record of each disposal permitted under this License Condition shall be retained for three years. The record must include the date of disposal, the date on which the byproduct material was placed in storage, the radionuclides disposed, the survey instrument used, the background dose rate, the dose rate measured at the surface of each waste container, and the name of the individual who performed the disposal.
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 January 16, 2008; and
 - B. Facsimile dated June 9, 2008

FOR THE U.S. NUCLEAR REGULATORY COMMISSION

Date AUG 31 2009

By



Toye L. Simmons
Materials Licensing Branch
Region III