

U.S. NUCLEAR REGULATORY COMMISSION

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.

NO 3620
Licensee

317182

In accordance with letter dated **May 19, 2008**, and application **May 16, 2008**,

3. License number 13-26387-01 is amended in its entirety to read as follows:

4. Expiration date **November 30, 2012**

5. Docket No. **030-32677**
Reference No.

- 1. Indiana University at South Bend
- 2. P.O. Box 7111
1700 Mishawaka Avenue
South Bend, IN 46634

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. 50 millicuries
B. Carbon - 14	B. Any	B. 1 millicuries
C. Phosphorus - 32	C. Any	C. 5 millicuries
D. Phosphorus - 33	D. Any	D. 5 millicuries
E. Sulfur - 35	E. Any	E. 2 millicuries
F. Iodine - 125	F. Any	F. 1 millicuries

9. Authorized Use:

A. through F. Research and development as defined in 10 CFR 30.4; insect studies; teaching and training of students.

CONDITIONS

10. Licensed material shall be used only at the licensee's facilities located at Northside Hall, 1825 Northside Blvd, South Bend, Indiana.

11. The Radiation Safety Officer for this license is **Ann Grens, Ph.D.**

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SUPPLEMENTARY SHEET**License Number
13-26387-01Docket or Reference Number
030-32677

Amendment No. 05

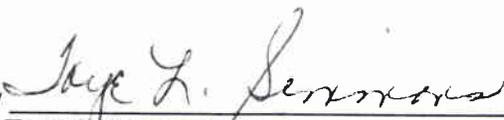
12. Licensed material listed in Item 6 above is only authorized for use by, or under the supervision of, the following individuals for the materials and uses indicated:
- | <u>Authorized Users</u> | <u>Material and Use</u> |
|--------------------------------|--------------------------|
| A. Kirk L. Mecklenburg, Ph.D. | Subitems 6.A through 6.F |
| B. Gretchen L. Anderson, Ph.D. | Subitems 6.A through 6.F |
| C. Andrew Schnabel, Ph.D. | Subitems 6.A through 6.F |
| D. Ann Grens, Ph.D. | Subitems 6.A through 6.F |
| E. Thomas Clark, Ph.D. | Subitem 6.A |
13. Licensed material shall not be used in or on humans except as provided otherwise by specific condition of this license.
14. This license does not authorize commercial distribution of licensed material.
15. 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:
- Radioactive waste to be disposed of in this manner shall be held for decay a minimum of 10 half-lives.
 - 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.
 - 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.
16. The licensee shall not use licensed material in field applications where activity is released except as provided otherwise by specific condition of this license.
17. Experimental animals, or the products from experimental animals, that have been administered licensed materials shall not be used for human consumption.

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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 June 28, 2002 and **May 16, 2008**; and
- B. Letters dated **May 19, 2008** and **August 16, 2008**.

FOR THE U.S. NUCLEAR REGULATORY COMMISSION

Date AUG 21 2008By 
Toye L. Simmons
Materials Licensing Branch
Region III