

**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, 37, 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 application dated <b>March 4, 2015,</b>
1. Wabash College	3. License number 13-07419-02 is <b>renewed</b> in its entirety to read as follows:
2. 301 West Wabash Avenue Crawfordsville, IN 47933	4. Expiration date <b>September 30, 2025</b>
	5. Docket No. 030-14430 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. 10 millicuries
B. Carbon-14	B. Any	B. 10 millicuries
C. Phosphorus-32	C. Any	C. 5 millicuries
D. Sulfur-35	D. Any	D. 1 millicurie
E. Iodine-125	E. Any	E. 0.5 millicuries
F. Americium-241	F. Sealed plated source	F. 1.5 microcuries

## 9. Authorized use:

- A. through F. For research and development as defined in 10 CFR Section 30.4, including laboratory experiments, student instruction, and instrument calibration.
- B. For calibration and checking of instruments.

CONDITIONS

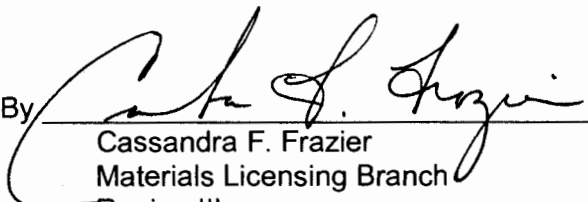
10. Licensed material shall be used or stored only at the licensee's facilities located at 301 W. Wabash Avenue, Crawfordsville, Indiana.
11. A. Licensed material shall only be used by, or under the supervision of, individuals designated by the licensee's Radiation Safety Committee, Martin J. Madsen, Ph.D., Chairperson.
- B. The Radiation Safety Officer (RSO) for this license is James Brown, Ph.D.
12. This license does not authorize commercial distribution of licensed material.

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SUPPLEMENTARY SHEET**License Number  
13-07419-02Docket or Reference Number  
030-14430

Amendment No. 15

13. The licensee is authorized to hold radioactive material with a physical half-life of less than or equal to 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.
14. Sealed or plated sources containing licensed material shall not be opened or sources removed from source holders by the licensee.
15. The licensee shall conduct a physical inventory every 6 months to account for all sources and/or devices received and possessed under the license.
16. The licensee shall not use licensed material in or on human beings.
17. The licensee shall not use licensed material in field applications.
18. The licensee is authorized to transport licensed material in accordance with the provisions of 10 CFR Part 71, "Packaging and Transportation of Radioactive Material."
19. 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 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 4, 2015;
  - B. Letter dated August 20, 2015; and
  - C. Letter received August 26, 2015.

FOR THE U.S. NUCLEAR REGULATORY COMMISSION

Date SEP 01 2015By   
Cassandra F. Frazier  
Materials Licensing Branch  
Region III