

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, 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.

<p><b>Licensee</b></p> <p>1. Missouri Public Health Laboratory</p> <p>2. 101 N. Chestnut Street P.O. Box 570 Jefferson City, MO 65102-0570</p>	<p>3. License number 24-35208-01</p> <hr/> <p>4. Expiration date April 30, 2025</p> <hr/> <p>5. Docket No. 030-38804 Reference No.</p>
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<p>6. Byproduct, source, and/or special nuclear material</p> <p>A. Americium-241</p> <p>B. Lead-210</p> <p>C. Thorium-230</p> <p>D. Radium-226</p> <p>E. Any byproduct material with atomic number 2 - 83 inclusive</p>	<p>7. Chemical and/or physical form</p> <p>A. Sealed sources</p> <p>B. Sealed sources</p> <p>C. Sealed sources</p> <p>D. Sealed sources</p> <p>E. Environmental samples</p>	<p>8. Maximum amount that licensee may possess at any one time under this license</p> <p>A. 5 microcuries</p> <p>B. 5 microcuries</p> <p>C. 5 microcuries</p> <p>D. 5 microcuries</p> <p>E. No single sample to exceed 1 microcurie; total activity not to exceed 5 microcuries</p>
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9. Authorized use:
- A. through D. For calibration of analytical equipment.
  - E. For possession and use in contaminated samples to be analyzed in the event of an incident involving the release of radioactive materials.

CONDITIONS

- 10. Licensed material may be used or stored only at the licensee's facilities located at 101 North Chestnut Street, Jefferson City, Missouri.
- 11. The Radiation Safety Officer (RSO) for this license is Alan Schaffer.
- 12. Licensed material is only authorized for use by, or under the supervision of the following individual:

Authorized Users

Alan Schaffer

Material and Use

All.

**MATERIALS LICENSE  
SUPPLEMENTARY SHEET**

License Number  
24-35208-01

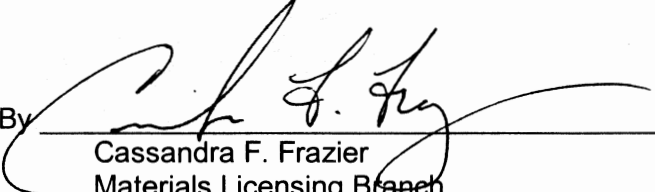
Docket or Reference Number  
030-38804

13. The licensee shall conduct a physical inventory every six months, or at other intervals approved by the U.S. Nuclear Regulatory Commission, to account for all sources and/or devices received and possessed under the license.
14. Sealed sources containing licensed material shall not be opened or sources removed from source holders by the licensee.
15. The licensee shall not use licensed material in or on human beings.
16. The licensee shall not use licensed material in field applications.
17. 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, the waste shall be surveyed at the container surface with the appropriate survey instrument 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 such 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. 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 January 5, 2015; and
- B. Letter dated April 21, 2015.

FOR THE U.S. NUCLEAR REGULATORY COMMISSION

Date APR 28 2015

By

  
Cassandra F. Frazier  
Materials Licensing Branch  
Region III