

**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 letter dated <b>March 29, 2016,</b>
1. Missouri Public Health Laboratory	3. License number 24-35208-01 is amended in its entirety to read as follows:
2. 101 N. Chestnut Street P.O. Box 570 Jefferson City, MO 65102-0570	4. Expiration date April 30, 2025
	5. Docket No. 030-38804 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. Americium-241	A. Sealed sources	A. Not to exceed 1 microcurie each, 20 microcuries total
B. Lead-210	B. Sealed sources	B. Not to exceed 1 microcurie each, 20 microcuries total
C. Thorium-230	C. Sealed sources	C. Not to exceed 1 microcurie each, 20 microcuries total
D. Radium-226	D. Sealed sources	D. Not to exceed 1 microcurie each, 20 microcuries total
E. Cadmium-109	E. Sealed sources	E. Not to exceed 1 microcurie each, 20 microcuries total
F. Cobalt-57	F. Sealed sources	F. Not to exceed 1 microcurie each, 20 microcuries total
G. Cerium-139	G. Sealed sources	G. Not to exceed 1 microcurie each, 20 microcuries total
H. Mercury-203	H. Sealed sources	H. Not to exceed 1 microcurie each, 20 microcuries total
I. Tin-113	I. Sealed sources	I. Not to exceed 1 microcurie each, 20 microcuries total
J. Cesium-137	J. Sealed sources	J. Not to exceed 1 microcurie each, 20 microcuries total
K. Yttrium-88	K. Sealed sources	K. Not to exceed 1 microcurie each, 20 microcuries total
L. Cobalt-60	L. Sealed sources	L. Not to exceed 1 microcurie each, 20 microcuries total
M. Plutonium-239	M. Liquid sources	M. Not to exceed 1 microcurie each, 3 microcuries total
N. Strontium-90	N. Liquid sources	N. Not to exceed 1 microcurie each, 3 microcuries total

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SUPPLEMENTARY SHEET**

License Number  
24-35208-01

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030-38804

Amendment No. 03

O. Americium-241

O. Liquid sources

O. Not to exceed 1 microcurie each,  
3 microcuries total

9. Authorized use:

A. through L. For calibration of analytical equipment.

**M. through O. For calibration of analytical equipment and spiking analytical samples.**

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

Material and Use

Alan Schaffer

All

Fran Thompson

6.A. through 6.L.

Mindy Rustemeyer

6.A. through 6.L.

Julie Buckley

6.A. through 6.L.

Brianna Medrano

6.A. through 6.L.

Amber Smith

6.A. through 6.L.

13. The licensee shall conduct a physical inventory every 6 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. **Records of inventories shall be maintained for three 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.**
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.

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17. The licensee is authorized to transport licensed material in accordance with the provisions of 10 CFR Part 71, "Packaging and Transportation of Radioactive Material."
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 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 (ML15028A483)
  - B. Letter dated April 21, 2015 (ML15120A626)
  - C. Letter dated May 20, 2015 (ML ML15140A666)
  - D. Letter dated February 4, 2016 (ML16040A217)
  - E. Letter dated **March 29, 2016** (ML16089A192)
  - F. Letter dated **May 18, 2016** (ML16139A425)

FOR THE U.S. NUCLEAR REGULATORY COMMISSION

Date JUN 23 2016

By

  
Cassandra F. Frazier  
Materials Licensing Branch  
Region III