

**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, 70 and 71, 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.

|  |   |  |  |
|--|---|--|--|
| <b>Licensee</b><br><br>1. Missouri Public Health Laboratory<br><br>2. 101 N. Chestnut Street<br>P.O. Box 570<br>Jefferson City, MO 65102-0570  |   | In accordance with letter dated<br>January 08, 2019.<br><br>3. License number: 24-35208-01 is<br>amended in its entirety to read as<br>follows:  | 4. Expiration Date: April 30, 2025<br><br>5. Docket No.: 030-38804<br>Reference No.:   |
| 6. Byproduct, source,<br>and/or special nuclear<br>material<br><br>A. Americium-241<br><br>B. Lead-210<br><br>C. Thorium-230<br><br>D. Radium-226<br><br>E. Cadmium-109<br><br>F. Cobalt-57<br><br>G. Cerium-139 | 7. Chemical and/or physical form<br><br>A. Sealed Sources<br><br>B. Sealed Sources<br><br>C. Sealed Sources<br><br>D. Sealed Sources<br><br>E. Sealed Sources<br><br>F. Sealed Sources<br><br>G. Sealed Sources | 8. Maximum amount that licensee<br>may possess at any one time<br>under this license<br><br>A. 1 microcurie per source<br>and 20 microcuries total<br>B. 1 microcurie per source<br>and 20 microcuries total<br>C. 1 microcurie per source<br>and 20 microcuries total<br>D. 1 microcurie per source<br>and 20 microcuries total<br>E. 1 microcurie per source<br>and 20 microcuries total<br>F. 1 microcurie per source<br>and 20 microcuries total<br>G. 1 microcurie per source<br>and 20 microcuries total | 9. Authorized use<br><br>A. For calibration of analytical equipment.<br>B. For calibration of analytical equipment.<br>C. For calibration of analytical equipment.<br>D. For calibration of analytical equipment.<br>E. For calibration of analytical equipment.<br>F. For calibration of analytical equipment.<br>G. For calibration of analytical equipment. |

**MATERIALS LICENSE  
SUPPLEMENTARY SHEET**

License Number

24-35208-01

Docket or Reference Number

030-38804

Amendment No. 6

| 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 | 9. Authorized use  |
|---|----------------------------------|--|--|
| H. Mercury-203  | H. Sealed Sources                | H. 1 microcurie per source and 20 microcuries total                            | H. For calibration of analytical equipment.                                |
| I. Tin-113  | I. Sealed Sources                | I. 1 microcurie per source and 20 microcuries total                            | I. For calibration of analytical equipment.                                |
| J. Cesium-137   | J. Sealed Sources                | J. 1 microcurie per source and 20 microcuries total                            | J. For calibration of analytical equipment.                                |
| K. Yttrium-88   | K. Sealed Sources                | K. 1 microcurie per source and 20 microcuries total                            | K. For calibration of analytical equipment.                                |
| L. Cobalt-60  | L. Sealed Sources                | L. 1 microcurie per source and 20 microcuries total                            | L. For calibration of analytical equipment.                                |
| M. Plutonium-239                                      | M. Liquid                        | M. 1 microcurie per source and 3 microcuries total                             | M. For calibration of analytical equipment and spiking analytical samples. |
| N. Strontium-90                                       | N. Liquid                        | N. 1 microcurie per source and 3 microcuries total                             | N. For calibration of analytical equipment and spiking analytical samples. |
| O. Americium-241                                      | O. Liquid                        | O. 1 microcurie per source and 3 microcuries total                             | O. For calibration of analytical equipment and spiking analytical samples. |
| P. Yttrium-90   | P. Liquid                        | P. 1 microcurie per source and 3 microcuries total                             | P. For calibration of analytical equipment and spiking analytical samples. |
| Q. Strontium-89                                       | Q. Liquid                        | Q. 1 microcurie per source and 3 microcuries total                             | Q. For calibration of analytical equipment and spiking analytical samples. |

**CONDITIONS**

10. Licensed material may be used or stored at the licensee's facilities located at: 101 North Chestnut Street, Jefferson City, Missouri, 65102.
11. The Radiation Safety Officer (RSO) for this license is Alan Schaffer.

**MATERIALS LICENSE  
SUPPLEMENTARY SHEET**License Number  
24-35208-01Docket or Reference Number  
030-38804

Amendment No. 6

12. Licensed material shall only be used by, or under the supervision of, the following individuals:

Authorized Users

Julie Buckley  
Alexa Gunter  
Brianna Medrano  
Mindy Rustemeyer  
Alan Schaffer  
Amber Smith

Material and Use

All  
All  
All  
All  
All  
All

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 sealed sources and/or devices received and possessed under the license. Records of inventories shall be maintained for 3 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.
17. 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. This license condition applies only to those procedures that are required to be submitted in accordance with the regulations. 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.

**MATERIALS LICENSE  
SUPPLEMENTARY SHEET**License Number  
24-35208-01

Amendment No. 6

Docket or Reference Number  
030-38804

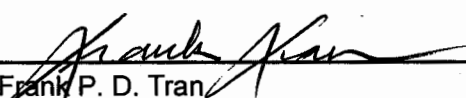
- A. Application dated January 5, 2015 (ML15028A483)
- B. Letter dated April 21, 2015 (ML15120A626)
- C. Letter dated May 20, 2015 (ML15140A666)
- D. Letter dated February 4, 2016 (ML16040A217)
- E. Letter dated March 29, 2016 (ML16089A192)
- F. Letter dated May 18, 2016 (ML16139A425)



FOR THE U.S. NUCLEAR REGULATORY COMMISSION

Date: FEB 25 2019

By: \_\_\_\_\_

  
Frank P. D. Tran  
Region 3