

Cabinet for Health and Family Services
Commonwealth of Kentucky
Department for Public Health
275 E Main Street
Frankfort, KY 40621

Andy Beshear
Governor

Eric C. Friedlander
Secretary

Steven J. Stack, MD
Commissioner

Radioactive Material License

KY Transportation Cabinet
200 Mero Street
Frankfort, KY 40622

Attention: Tim Preston
Telephone: (859) 351-9851

Pursuant to KRS 211.842 et seq., the Kentucky Cabinet for Health and Family Services regulations 902 KAR Chapter 100, and in reliance on statements and representations heretofore made by the licensee, a license is hereby issued to receive, acquire, own, possess and transfer radioactive material listed below; and to use such radioactive material for the purpose(s) and at the place(s) designated below. This license is subject to all applicable rules, regulations, and orders of the Cabinet for Health and Family Services, now or hereinafter in effect and to any conditions specified below.

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| 3. | License Number: | 201-086-51 |
| | Amendment No: | 86 |
| 4. | Expiration Date: | June 30, 2026 |
| 5. | Reviewer: | 84 |

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6. Licensed Material	7. Form	8. Possession Limit
A. Cesium-137	A. Sealed Source (Troxler Dwg. A-102112)	A. No single source to exceed 9 millicuries; number of sources not to exceed 50
B. Americium-241/ Beryllium	B. Sealed Source (Troxler Dwg.A-102451)	B. No single source to exceed 44 millicuries; number of sources not to exceed 50
C. Americium-241/ Beryllium	C. Sealed Source (Troxler Dwg. A-100608)	C. No single source to exceed 100 millicuries; number of sources not to exceed 2
D. Cesium-137	D. Sealed Source (Humbolt Drawing 2200064-1)	D. No single source to exceed 11 millicuries; number of sources not to exceed 20
E. Americium-241/ Beryllium	E. Sealed Source (Humbolt Drawing 2200067-1)	E. No single source to exceed 44 millicuries; number of sources not to exceed 20
F. Cesium-137	F. Sealed Source (QSA Model CDC.805, Isotope Products Laboratories Model HEG-137)	F. No single source to exceed 11 millicuries; number of sources not to exceed 5
G. Americium-241/ Beryllium	G. Sealed Source (QSA Model AMN.V997, Isotope Products Laboratories Model AM1.N02)	G. No single source to exceed 44 millicuries; number of sources not to exceed 5

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| H. Radium-226 | H. Sealed Source (Radium Chemical Co. Model RAN-W25) | H. No single source to exceed 4.5 millicuries; number of sources not to exceed 2 |
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9. Authorized Use

- A. For use in Troxler Model 3400 Series, 3411 and 3411B moisture/density gauges for measuring properties of construction materials.
 - B. For use in Troxler Model 3400 Series, 3411 and 3411B moisture/density gauges for measuring properties of construction materials.
 - C. For use in Troxler Model 3421-C and 3421-D asphalt content gauge for measuring properties of construction materials.
 - D. For use in Humboldt Scientific Inc. Model 5001 moisture/density gauges for measuring properties of construction materials.
 - E. For use in Humboldt Scientific Inc. Model 5001 moisture/density gauges for measuring properties of construction materials.
 - F. For use in Instro-Tek Model 3500 moisture/density gauges for measuring properties of construction materials.
 - G. For use in Instro-Tek Model 3500 moisture/density gauges for measuring properties of construction materials.
 - H. For use in Seaman Nuclear Corporation Model C-200 moisture/ density gauge for measuring properties of construction materials.
10. The licensee shall comply with the provisions of the Kentucky Cabinet for Health and Family Services Administrative Radiation Regulations 902 KAR Chapter 100.
11. Radioactive material may be stored at:
Locations designated in writing by the Radiation Safety Officer. The licensee shall notify the Radiation Health Branch in writing of any changes in the designated locations where licensed material is authorized to be stored.

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12. Radioactive material may be used at temporary job sites, in areas not under exclusive federal jurisdiction, anywhere in the Commonwealth of Kentucky where the Cabinet maintains jurisdiction for regulating the use of radioactive material. (This condition does not prohibit use in other states under reciprocity privileges which may be granted by the regulatory agency having jurisdiction.)
13. Copies of records required pursuant to 902 KAR Chapter 100 or conditions of the license shall be maintained for inspection by the Cabinet at 200 Mero Street, Frankfort, Ky 40622.
14. Radioactive material shall be used by, or under the direct supervision and in the physical presence of individuals who have successfully completed the manufacturer's training program for gauge users or equivalent training program for gauge users as approved by the Cabinet, U.S. Nuclear Regulatory Commission, or an Agreement State, have been instructed in the licensee's routine and emergency operating procedures and who have been designated, in writing, by the Radiation Safety Officer. The licensee shall maintain records of individuals designated as users and their training for three (3) years following the last use of radioactive material by the individual.
15. The radiation safety officer for the activities authorized by this license is Tim Preston.
16. Tests for leakage and/or contamination, limited to leak test sample collection, shall be performed by the licensee or by other persons specifically authorized by the Cabinet, U.S. Nuclear Regulatory Commission or an Agreement State. The licensee is not authorized to perform the analysis; analysis of leak test samples must be performed by persons specifically authorized by the Cabinet, U.S. Nuclear Regulatory Commission or an Agreement State.
17. Sealed sources or detector cells need not be leak tested if they are in storage and not being used. Prior to removal from storage for use or transfer to another person, the sealed source or detector cell shall be tested before use or transfer if it has not been tested within the required leak test interval. No sealed source or detector cell shall be stored for a period of more than ten (10) years without being tested for leakage and/or contamination.
18. Test for leakage and/or contamination shall not exceed intervals of six (6) months for radioactive materials authorized for possession under this license unless specifically granted an extended interval by this license.

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19. Tests for leakage and/or contamination shall not exceed intervals of twelve (12) months for:
 - A. Troxler Model 3400 Series
 - B. Troxler Model 3411 and 3411B
 - C. Troxler Model 3241-C and 3241-D
 - D. Humboldt Scientific Model 5001
 - E. Instro-Tek Model 3500
20. In the absence of a certificate from a transferor, indicating that a leak test has been made within six (6) months prior to transfer, the sealed source received from another person shall not be put in use until tested and the test results received.
21. The leak test shall be capable of detecting the presence of 185 becquerels (0.005 microcuries) of radioactive material on the test sample. If the test reveals the presence of 185 becquerels (0.005 microcuries) or more of removable contamination, a report shall be filed with the Cabinet within five (5) business days in accordance with 902 KAR 100:019, Section 40. and the source shall be removed immediately from service and decontaminated, repaired, or disposed of in accordance with Commission regulations.
22. Sealed sources containing radioactive material shall not be opened or removed from their respective source holders by the licensee, except as specifically authorized.
23. Any cleaning, maintenance or repair of the gauge(s) involving removal of the source rod from the devices or removal or dismantling of shielding may be performed only by the manufacturer or by other persons specifically authorized by the Cabinet, the U.S. Nuclear Regulatory Commission, or an Agreement State.
24. Each portable gauge shall have a lock or outer locked container designed to prevent unauthorized or accidental removal of the sealed source from its shielded position. The gauge or its container must be locked when in transport, storage or when not under the direct surveillance of an authorized user.

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25. The licensee shall conduct a physical inventory every six (6) months to account for all sealed sources received and possessed under the license. The records of the inventories shall be maintained for three (3) years from the date of the inventory for inspection by the Cabinet, and shall include the radionuclides, quantities, manufacturer's name and model numbers, location of sealed sources, the dates of the inventory, and the name of the individual conducting the inventory.
26. The licensee may transport radioactive material, or deliver radioactive material to a carrier for transport, in accordance with the provisions of 902 KAR 100:070, and other departments of the Commonwealth of Kentucky having jurisdiction.
27. In addition to the possession limits in Item 8, the licensee shall further restrict the possession of radioactive material to quantities below the minimum limit specified in 902 KAR 100:042, Sections 11, 12, and 13 for establishing decommissioning financial assurance.
28. In addition to the possession limits specified in Item 8, the licensee shall further restrict possession of radioactive material, in aggregated quantities; below the Category 2 value (in terabecquerels) specified in Appendix A, Table 1 – "Category 1 and Category 2 Threshold" of 10 CFR Part 37 "Physical protection of Category 1 and Category 2 quantities of radioactive material".
29. This license and the right to possess or utilize radioactive material granted by this license issued under 902 KAR Chapter 100 shall not be transferred, assigned, or otherwise disposed of, through transfer of control of a license to a person unless the Cabinet, after securing full information, finds that the transfer is in accordance with the requirements of 902 KAR Chapter 100 and gives its consent, in writing, in accordance with 902 KAR 100:040, Section 11.

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30. 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. The Cabinet for Health and Family Services regulations, 902 KAR Chapter 100, shall govern unless statements, representations, and procedures in the licensee's application and correspondence are more restrictive than the regulation.
- A. Application dated June 11, 2012, signed by Steven Criswell, Director, Division of Construction.
- B. Letters Dated:
1. April 15, 2013, signed by Ryan Griffith, P.E., Director, Division of Construction and Rob Hecker, Radiation Safety Officer (delegation of authority and signature authorization for Radiation Safety Officer).
 2. November 3, 2017, signed by Anthony Courtwright, OHRM Safety and Health Branch Manager (Radiation Safety Officer change).
 3. November 16, 2017, signed by Ryan Griffith, P.E., Director, Division of Construction, Kentucky Transportation Cabinet and Anthony Courtwright, Radiation Safety Officer (RSO Delegation of Authority, RSO signature authorization).
 4. April 13, 2023, signed by Matthew Simpson, Director of Construction and Tim Preston, Radiation Safety Officer (RSO Delegation of Authority, Signature Authorization).
 5. May 8, 2023, (e-mail) signed by Valerie Januski, Branch Manager (RSO and DOT hazmat training certificates).
 6. June 19, 2023, (e-mail) signed by Valerie Januski, Branch Manager (organizational chart, RSO duties and responsibilities).
 7. June 20, 2023, (e-mail) signed by Tim Preston, RSO (update contact phone number).

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Manager
Radiation Health Branch

Eric C. Friedlander

Secretary
Cabinet for Health and Family Services

Date Issued: June 13, 2025

