

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.

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| Licensee 1. University of Evansville 2. 1800 Lincoln Ave. Evansville, IN 47722 | | In accordance with letter dated July 2, 2024, 3. License No.: 13-09810-01 is amended in its entirety to read as follows: | 4. Expiration Date: May 31, 2037 5. Docket No.: 030-00707 Reference No.: |
| 6. Byproduct, source, and/or special nuclear material A. Americium-241 B. Cobalt-60 C. Cesium-137 D. Nickel-63 E. Strontium-90 F. Radium-226 G. Any byproduct material with Atomic Nos. 3 through 104 | 7. Chemical and/or physical form A. Sealed sources B. Sealed sources C. Sealed sources D. Foils (Perkin-Elmer, Model 330-0119) E. Sealed sources F. Sealed sources G. Sealed sources | 8. Maximum amount that licensee may possess at any one time under this license A. 10.26 microcuries total B. 2 microcuries total C. 5 millicuries total D. 15 millicuries total E. 3 microcuries total F. 50 microcuries per source and 100 microcuries total G. 100 microcuries per source and 1 millicurie total | 9. Authorized use A. For use in teaching and training of students. B. Same as Item No. 9.A. C. Same as Item No. 9.A. D. For possession and storage only with intent to dispose. E. Same as Item No. 9.A. F. Same as Item No. 9.D. G. Same as Item No. 9.D. |

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Amendment No. 23

CONDITIONS

10. Licensed material shall be used or stored at the licensee's facilities located at Koch Center for Engineering and Science, 1800 Lincoln Ave., Evansville, Indiana, 47722.
11. The Radiation Safety Officer (RSO) for this license is Mark Davis, PhD.
12. Licensed material shall only be used by, or under the supervision of:
- | <u>Authorized User</u> | <u>Material and Use</u> |
|------------------------|-------------------------|
| Mark Davis, PhD | All |
13. A. Sealed sources and detector cells shall be tested for leakage and/or contamination at intervals not to exceed the intervals specified in the certificate of registration issued by the U.S. Nuclear Regulatory Commission under 10 CFR 32.210 or by an Agreement State. In the absence of a registration certificate, sealed sources shall be tested for leakage and/or contamination at intervals not to exceed six months, or at such other intervals as specified.
- B. Notwithstanding Paragraph A of this Condition, sealed sources designed to primarily emit alpha particles shall be tested for leakage and/or contamination at intervals not to exceed three months.
- C. In the absence of a certificate from a transferor indicating that a leak test has been made within the intervals specified in the certificate of registration issued by the U.S. Nuclear Regulatory Commission under 10 CFR 32.210 or by an Agreement State, prior to the transfer, a sealed source received from another person shall not be put into use until tested and the test results received.
- D. Sealed sources need not be tested if they contain only hydrogen-3; or they contain only a radioactive gas; or the half-life of the isotope is 30 days or less; or they contain not more than 100 microcuries of beta- and/or gamma-emitting material or not more than 10 microcuries of alpha-emitting material.

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- E. Sealed sources need not be tested if they are in storage and are not being used. However, when they are removed from storage for use or transferred to another person, and have not been tested within the required leak test interval, they shall be tested before use or transfer. No sealed source shall be stored for a period of more than 10 years without being tested for leakage and/or contamination.
- F. 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 U.S. Nuclear Regulatory Commission in accordance with 10 CFR 30.50(c)(2), and the source shall be removed immediately from service and decontaminated, repaired, or disposed of in accordance with Commission regulations.
- G. Tests for leakage and/or contamination, including leak test sample collection and analysis, shall be performed by the licensee or other persons specifically licensed by the U.S. Nuclear Regulatory Commission or an Agreement State to perform such services.
- H. Records of leak test results shall be kept in units of becquerels (microcuries) and shall be maintained for three years.
14. 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 sealed 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.
15. Sealed sources or detector cells containing licensed material shall not be opened or the sources removed from the detector cell by the licensee.
16. The licensee shall not acquire licensed material in a sealed source or device that contains a sealed source unless the source or device has been registered with the U.S. Nuclear Regulatory Commission under 10 CFR 32.210 or with an Agreement State.
17. The licensee shall not use the licensed material in or on humans.

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18. The licensee shall not use licensed material in field applications where activity is released except as provided otherwise by specific condition of this license.
19. Maintenance, repair, cleaning, replacement, and disposal of foils contained in detector cells shall be performed only by the device manufacturer or other persons specifically authorized by the Commission or an Agreement State to perform such services.
20. 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 statements, representations, and 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 impose on the licensee requirements that are more restrictive than or in addition to the regulations.
- A. Application dated November 23, 2021 (ML21327A406)
 - B. Letter dated May 12, 2022 (ML22132A248)
 - C. Letter dated April 5, 2024 (ML24099A076)
 - D. Letter dated June 21, 2024 (ML24173A307)


FOR THE U. S. NUCLEAR REGULATORY COMMISSIONDate: August 23, 2024

By: _____

Bryan A. Parker
Region III