

**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>  1. Idaho State University Technical Safety Office  2. 921 South 8th Avenue, Stop 8106 Pocatello, ID 83209-8106		In accordance with letter dated June 14, 2018.	4. Expiration Date: July 31, 2024
			5. Docket No.: 030-38726 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	9. Authorized use
A. Copper-67	A. Any	A. 15 curies total	A. See Condition 10.
B. Barium-131	B. Any	B. 150 millicuries total	B. See Condition 10.
C. Cesium-131	C. Any	C. 2 curies total	C. See Condition 10.
D. Promethium-149	D. Any	D. 200 millicuries total	D. See Condition 10.
E. Actinium-225	E. Any	E. 5 millicuries total	E. See Condition 10.
F. Radium-225	F. Any	F. 5 millicuries total	F. See Condition 10.
G. Radium-226	G. Any	G. 98 microcuries total	G. See Condition 10.
H. Scandium-47	H. Any	H. 1 curie total	H. See Condition 10.

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11-27380-04

Amendment No. 4

Docket or Reference Number  
030-38726

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| 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   |
| I. Any byproduct material with Atomic Numbers 1 through 83 | I. Incidentally Activated Products | I. 10 millicuries per radionuclide and 50 millicuries total                    | I. For possession and storage of byproduct materials incidental to radionuclide production. |

**CONDITIONS**

10. Authorized use:
- A. Research and development as defined in 10 CFR 30.4.
  - B. For production, possession, or handling of radiochemicals for transfer to persons authorized to receive the licensed material pursuant to the terms and conditions of a specific license issued by the U.S. Nuclear Regulatory Commission or an Agreement State.
  - C. For possession, use, and processing incident to the manufacture of radiochemicals for transfer to persons authorized to receive the licensed material pursuant to the terms and conditions of a specific license issued by the U.S. Nuclear Regulatory Commission or an Agreement State.
  - D. For storage prior to distribution of manufactured radiochemicals.
  - E. For packaging and distribution of produced radiochemicals to persons authorized to receive licensed materials pursuant to the terms and conditions of specific licenses issued by the Nuclear regulatory Commission or Agreement Sates. This should not be distributed as a radiopharmaceutical or radioactive drug.
  - F. For storage as radioactive wastes.
11. A. Licensed material shall be stored and/or used only at the licensee's facilities located at the Idaho Accelerator Center, 1500 Alvin Ricken Drive, Pocatello, Idaho.
- B. Licensed material shall be stored only at the licensee's facilities located at the shipping and receiving department, 638 E. Dunn Street, Pocatello, Idaho.

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- C. Licensed material shall be stored only at the licensee's facilities located at the radioactive waste building, 1540 South 7th Avenue, Pocatello, Idaho.
12. A. Licensed material shall be used by, or under the supervision of, individuals designated in writing by the Radiation Safety Committee, Jon L. Stoner, Chairperson.
- B. The Radiation Safety Officer (RSO) for this license is Richard Brey, Ph.D., CHP.
13. This license does not authorize commercial distribution of licensed material pursuant to 10 CFR 32.72 or 10 CFR 32.74 or equivalent regulations of an Agreement State; to persons generally licensed pursuant to 10 CFR Part 31 or equivalent regulations of an Agreement State; or to persons exempted from licensing pursuant to 10 CFR Part 30 or equivalent regulations of an Agreement State.
14. Licensed material shall not be used in or on human beings.
15. A. Sealed sources 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.
- B. 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.
- C. 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.

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- D. 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.
- E. 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.
- F. Records of leak test results shall be kept in units of becquerels (microcuries) and shall be maintained for 3 years.
16. Sealed sources containing licensed material shall not be opened or sources removed from source holders by the licensee, except as specifically authorized.
17. 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.
18. 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. Monitors byproduct material at the surface before disposal and determines that its radioactivity cannot be distinguished from the background radiation level with an appropriate radiation detection survey meter set on its most sensitive scale and with no interposed shielding; and
- B. Removes or obliterates all radiation labels, except for radiation labels on materials that are within containers and that will be managed as biomedical waste after they have been released from the licensee; and

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- C. Maintains records of the disposal of licensed materials for 3 years. The record must include the date of the disposal, the survey instrument used, the background radiation level, the radiation level measured at the surface of each waste container, and the name of the individual who performed the disposal.
19. The licensee is authorized to transport licensed material only in accordance with the provisions of 10 CFR Part 71, "Packaging and Transportation of Radioactive Material."
20. The licensee shall maintain records of information related to decommissioning as specified in 10 CFR 30.35(g) until this license is terminated by the Commission.
21. The licensee shall not use licensed material in field applications where activity is released to the environment except as provided otherwise by specific condition of this license.
22. Radioactive waste generated shall be stored in accordance with the statements, representations and procedures included in the licensee's application dated March 17, 2014.
23. Notwithstanding the requirements of License Condition 24, the licensee is authorized to make program changes and changes to procedures specifically identified in the application dated March 17, 2014 which were previously approved by the Commission and incorporated into the license, without prior Commission approval, as long as:
- A. The proposed revision is documented, reviewed, and approved by the licensee's Radiation Safety Committee in accordance with established procedures prior to implementation;
  - B. The revised program is in accordance with regulatory requirements, will not change license conditions, and will not decrease the effectiveness of the Radiation Safety Program;
  - C. The licensee's staff is trained in the revised procedures prior to implementation; and

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D. The licensee's audit program evaluates the effectiveness of the change and its implementation.

24. 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. Applications dated March 17, 2014 (ML14087A143 and ML14086A666)

B. Letter with enclosure dated June 24, 2018 (ML18170A213)

C. E-mail with enclosure dated August 21, 2018 (ML18239A208)



FOR THE U.S. NUCLEAR REGULATORY COMMISSION

Date: September 11, 2018

By: R/A  
Michelle M. Hammond  
Region IV