

**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.

<p style="text-align: center;">Licensee</p> <p>1. Inter-Mountain Laboratories, Inc.</p> <p>2. 1673 Terra Avenue Sheridan, WY 82801</p>	<p>In accordance with application dated December 01, 2017; and letter dated December 02, 2017.</p>	<p>4. Expiration Date: October 31, 2020</p>
	<p>3. License number: 49-29405-01 is amended in its entirety to read as follows:</p>	<p>5. Docket No.: 030-38364 Reference No.:</p>

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. Americium-241	A. Solid	A. 5 microcuries total (solid, plated)	A. For use in calibration of analytical instruments and/or analytical reference standards.
B. Cadmium-109	B. Solid	B. 1 microcurie total (solid, plated)	B. Same as Item 9.A.
C. Carbon-14	C. Plated Sources	C. 1 microcurie total	C. Same as Item 9.A.
D. Cerium-139	D. Solid	D. 1 microcurie total (solid, plated)	D. Same as Item 9.A.
E. Cesium-137	E. Solid or Liquid	E. 1 microcurie total (Liquid, solid, plated)	E. Same as Item 9.A.
F. Chromium-51	F. Solid or Liquid	F. 1 microcurie total (Liquid, solid, plated)	F. Same as Item 9.A.
G. Cobalt-57	G. Solid or Liquid	G. 1 microcurie total (Liquid, solid, plated)	G. Same as Item 9.A.

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H. Cobalt-60	H. Solid or Liquid	H. 1 microcurie total (Liquid, solid, plated)	H. Same as Item 9.A.
I. Lead-210	I. Solid or Liquid	I. 5 microcuries total	I. Same as Item 9.A.
J. Mercury-203	J. Solid	J. 1 microcurie total	J. Same as Item 9.A.
K. Polonium-208	K. Liquid	K. 1 microcurie total	K. Same as Item 9.A.
L. Polonium-209	L. Liquid	L. 1 microcurie total	L. Same as Item 9.A.
M. Polonium-210	M. Solid or Liquid	M. 5 microcuries total (Liquid, solid, plated)	M. Same as Item 9.A.
N. Radium-226	N. Solid or Liquid	N. 5 microcuries total	N. Same as Item 9.A.
O. Radium-228	O. Solid or Liquid	O. 5 microcuries total	O. Same as Item 9.A.
P. Strontium-85	P. Solid or Liquid	P. 1 microcurie total	P. Same as Item 9.A.
Q. Strontium-89	Q. Solid or Liquid	Q. 1 microcurie total	Q. Same as Item 9.A.
R. Strontium-90	R. Solid or Liquid	R. 5 microcuries total (Liquid, solid, plated)	R. Same as Item 9.A.
S. Tellurium-123m	S. Solid or Liquid	S. 1 microcurie total	S. Same as Item 9.A.
T. Thorium-228	T. Solid or Liquid	T. 1 microcurie total (Liquid, solid, plated)	T. Same as Item 9.A.
U. Thorium-229	U. Solid or Liquid	U. 1 microcurie total (Liquid, solid, plated)	U. Same as Item 9.A.
V. Thorium-230	V. Solid or Liquid	V. 5 microcuries total (Liquid, solid, plated)	V. Same as Item 9.A.

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W. Tin-113	W. Solid	W. 1 microcurie total	W. Same as Item 9.A.
X. Uranium-232	X. Solid or Liquid	X. 5 microcuries total (Liquid, solid, plated)	X. Same as Item 9.A.
Y. Uranium-234	Y. Solid or Liquid	Y. 5 microcuries total (Liquid, solid, plated)	Y. Same as Item 9.A.
Z. Uranium-238	Z. Solid or Liquid	Z. 5 microcuries total (Liquid, solid, plated)	Z. Same as Item 9.A.
AA. Yttrium-88	AA. Solid	AA. 1 microcurie total	AA. Same as Item 9.A.
AB. Any byproduct material	AB. Solid Liquid Waste	AB. 1,000 kilograms total (Any byproduct material as defined in 10 CFR 40.4 - uranium mill tailings and wastes)	AB. For use in radiochemical, inorganic and organic analysis to determine material characterization.
AC. Any Source Material	AC. Solid or Liquid	AC. 1,000 kilograms total (Any source material as defined in 10 CFR 40.4)	AC. For use in bioassay sample analysis and radiochemical, inorganic and organic analysis to determine material characterization.

**CONDITIONS**

10. Licensed material may be used or stored at the licensee's facilities located at:
- A. 1633 Terra Avenue, Sheridan, Wyoming, 82801
  - B. 1653 Terra Avenue, Sheridan, Wyoming, 82801
  - C. 1673 Terra Avenue, Sheridan, Wyoming, 82801

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11. Licensed material shall only be used by, or under the supervision of, individuals who have received the training described in the application dated August 5, 2010, and have been designated in writing by the Radiation Safety Officer. The licensee shall maintain records of individuals designated as users for 3 years following the last use of licensed material by the individual.
12. The Radiation Safety Officer (RSO) for this license is Margaret Elliott.
13. 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. In the absence of a registration certificate, sealed sources shall be tested for leakage and/or contamination at intervals not to exceed 6 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 3 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.
- 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.

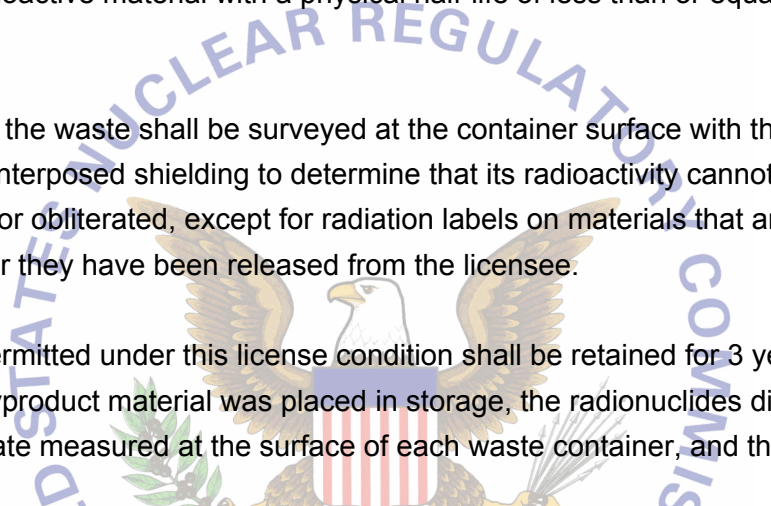
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- F. The leak test shall be capable of detecting the presence of 185 becquerels (0.005 microcuries) of radioactive material on the test sample. If the test reveals the presence of 185 becquerels (0.005 microcuries) or more of removable contamination, 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. Analysis of leak test samples and/or contamination shall be performed by persons specifically licensed by the U.S. Nuclear Regulatory Commission or an Agreement State to perform such services. The licensee is authorized to collect leak test samples but not perform the analysis.
- H. Records of leak test results shall be kept in units of becquerels (microcuries) and shall be maintained for 3 years.
14. Sealed sources, plated or foil sources containing licensed material shall not be opened or sources removed from source holders by the licensee, except as specifically authorized.
15. 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.
16. The licensee shall not use licensed material in field applications where activity is released except as provided otherwise by specific condition of this license.
17. This license does not authorize commercial distribution of licensed material.

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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. Before disposal as ordinary trash, the waste shall be surveyed at the container surface with the appropriate survey instrument set on its most sensitive scale and with no interposed shielding to determine that its radioactivity cannot be distinguished from background. All radiation labels shall be removed or obliterated, except for radiation labels on materials that are within containers and that will be managed as biohazard waste after they have been released from the licensee.
- B. A record of each such disposal permitted under this license condition shall be retained for 3 years. The record must include the date of disposal, the date on which the byproduct material was placed in storage, the radionuclides disposed, the survey instrument used, the background dose rate, the dose rate measured at the surface of each waste container, and the name of the individual who performed the disposal.
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19. 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.

A. Application dated August 5, 2010 (ML102280216)

B. Letter dated October 26, 2010 with enclosures (ML103000476)

C. E-mails dated October 27, 2010 (ML103000476)

D. Application and letter dated November 2, 2012 (ML12313A218)

E. Application dated December 1, 2017 and letter dated December 2, 2017 with enclosures (ML17336A039)



FOR THE U.S. NUCLEAR REGULATORY COMMISSION

Date: December 2, 2017By: /RA/Roberto J. Torres  
Region IV