

U.S. NUCLEAR REGULATORY COMMISSION

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, 39, 40, and 70, 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.

Licensee	
1. Inter-Mountain Laboratories, Inc.	3. License number 49-29405-01
2. 1673 Terra Avenue Sheridan, Wyoming 82801	4. Expiration date October 31, 2020
	5. Docket No. 030-38364 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
A. Americium-241	A. Solid, plated	A. 1 microcurie
B. Cadmium-109	B. Solid, plated	B. 1 microcurie
C. Carbon-14	C. Plated	C. 1 microcurie
D. Cerium-139	D. Solid, plated	D. 1 microcurie
E. Cesium-137	E. Liquid, solid, plated	E. 1 microcurie
F. Chromium-51	F. Liquid, solid, plated	F. 1 microcurie
G. Cobalt-57	G. Liquid, solid, plated	G. 1 microcurie
H. Cobalt-60	H. Liquid, solid, plated	H. 1 microcurie
I. Lead-210	I. Liquid, solid	I. 2 microcuries
J. Mercury-203	J. Solid	J. 1 microcurie
K. Plutonium-239	K. Plated	K. 1 microcurie
L. Polonium-208	L. Liquid	L. 1 microcurie
M. Polonium-209	M. Liquid	M. 1 microcurie
N. Polonium-210	N. Liquid, solid, plated	N. 1 microcurie
O. Radium-226	O. Liquid, solid	O. 5 microcuries
P. Radium-228	P. Liquid, solid	P. 1 microcurie
Q. Strontium-85	Q. Liquid, solid	Q. 1 microcurie
R. Strontium-89	R. Liquid, solid	R. 1 microcurie

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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
S. Strontium-90	S. Liquid, plated	S. 1 microcurie
T. Tellurium-123m	T. Liquid, solid	T. 1 microcurie
U. Thorium-228	U. Liquid, solid, plated	U. 1 microcurie
V. Thorium-229	V. Liquid, solid, plated	V. 1 microcurie
W. Thorium-230	W. Liquid, solid, plated	W. 1 microcurie
X. Tin-113	X. Solid	X. 1 microcurie
Y. Uranium-232	Y. Liquid, solid, plated	Y. 1 microcurie
Z. Uranium-234	Z. Liquid, solid, plated	Z. 1 microcurie
AA. Uranium-235	AA. Liquid, solid, plated	AA. 1 microcurie
BB. Uranium-238	BB. Liquid, solid, plated	BB. 1 microcurie
CC. Yttrium-88	CC. Solid	CC. 1 microcurie
DD. Any byproduct material as defined in 10 CFR 40.4	DD. Uranium mill tailings and wastes (liquid, solid)	DD. 1,000 kilograms
EE. Any source material as defined in 10 CFR 40.4	EE. Liquid, solid	EE. 1,000 kilograms

9. Authorized Use:

- A. through CC. For use in calibration of analytical instruments and/or reference standards.
- DD. Radiochemical, inorganic and organic analysis to determine material characterization.
- EE. Bioassay sample analysis and radiochemical, inorganic and organic analysis to determine material characterization.

CONDITIONS

10. Licensed material shall be used or stored only at the licensee's facilities located at:

- A. 1633 Terra Avenue, Sheridan, Wyoming.

11. Licensed material shall be used by, or under the supervision of, individuals who have received the training described in the application dated August 5, 2010. The licensee shall maintain records of individuals designated as users for 3 years following the last use of licensed material by the individual.

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12. The Radiation Safety Officer for this license is Sheryl Garling.
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.
- 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.
- F. The leak test shall be capable of detecting the presence of 0.005 microcurie (185 becquerels) of radioactive material on the test sample. If the test reveals the presence of 0.005 microcurie (185 becquerels) 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. The report shall be filed within 5 days of the date the leak test result is known with the appropriate U.S. Nuclear Regulatory Commission, Region IV, 612 East Lamar Boulevard, Suite 400, Arlington, Texas 76011-4125, ATTN: Director, Division of Nuclear Materials Safety. The report shall specify the source involved, the test results, and corrective action taken.
- G. Tests for leakage 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. In addition, the licensee is authorized to collect leak test samples but not perform the analysis; analysis of leak test samples must be performed by persons specifically licensed by the Commission or an Agreement State to perform such services.
- H. Records of leak test results shall be kept in units of microcuries and shall be maintained for 3 years.
14. Sealed sources containing licensed material shall not be opened or sources removed from source holders by the licensee, except as specifically authorized.

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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 sources and/or devices received and possessed under the license. Records of inventories shall be maintained for 5 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.
18. The licensee is authorized to hold byproduct material with a physical half-life of less than or equal to 120 days for decay-in-storage before disposal without regard to its radioactivity if the licensee:
- 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
 - 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 survey.
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."

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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. 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)



FOR THE U.S. NUCLEAR REGULATORY COMMISSION

Date: October 27, 2010By: /RA/

Roberto J. Torres, Senior Health Physicist
Nuclear Materials Safety Branch B
Region IV
Arlington, Texas 76011