

**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. Energy Laboratories, Inc.</p> <p>2. P.O. Box 247 Casper, WY 82602</p>	<p>In accordance with letter dated December 20, 2017.</p>	<p>4. Expiration Date: September 30, 2023</p>
	<p>3. License number: 49-26846-01</p>	<p>5. Docket No.: 030-29502 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. Any	A. 5 microcuries total	A. For use as calibration and reference standards.
B. Barium-133	B. Any	B. 5 microcuries total	B. For use as calibration and reference standards.
C. Carbon-14	C. Any	C. 5 microcuries total	C. For use as calibration and reference standards.
D. Cesium-137	D. Any	D. 5 microcuries total	D. For use as calibration and reference standards.
E. Cobalt-60	E. Any	E. 5 microcuries total	E. For use as calibration and reference standards.
F. Curium-244	F. Any	F. 10 microcuries total	F. For use as calibration and reference standards.
G. Lead-210	G. Any	G. 10 microcuries total	G. For use as calibration and reference standards.

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H. Polonium-208	H. Any	H. 5 microcuries total	H. For use as calibration and reference standards.
I. Polonium-209	I. Any	I. 10 microcuries total	I. For use as calibration and reference standards.
J. Radium-226	J. Any	J. 1 millicurie total	J. For use as calibration and reference standards.
K. Radium-228	K. Any	K. 5 microcuries total	K. For use as calibration and reference standards.
L. Strontium-90	L. Any	L. 5 microcuries total	L. For use as calibration and reference standards.
M. Technetium-99	M. Any	M. 5 microcuries total	M. For use as calibration and reference standards.
N. Thorium-229	N. Any	N. 5 microcuries total	N. For use as calibration and reference standards.
O. Thorium-230	O. Any	O. 5 microcuries total	O. For use as calibration and reference standards.
P. Uranium-232	P. Any	P. 5 microcuries total	P. For use as calibration and reference standards.
Q. Uranium-234	Q. Any	Q. 10 microcuries total	Q. For use as calibration and reference standards.
R. Uranium-238	R. Any	R. 10 microcuries total	R. For use as calibration and reference standards.
S. Cadmium-109	S. Any	S. 1 microcurie total	S. For use as calibration and reference standards.
T. Chromium-51	T. Any	T. 1 microcurie total	T. For use as calibration and reference standards.

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U. Strontium-85	U. Any	U. 1 microcurie total	U. For use as calibration and reference standards.
V. Strontium-89	V. Any	V. 1 microcurie total	V. For use as calibration and reference standards.
W. Tellurium-123m	W. Any	W. 1 microcurie total	W. For use as calibration and reference standards.
X. Tin-113	X. Any	X. 1 microcurie total	X. For use as calibration and reference standards.
Y. Thorium-228	Y. Any	Y. 1 microcurie total	Y. For use as calibration and reference standards.
Z. Yttrium-88	Z. Any	Z. 1 microcurie total	Z. For use as calibration and reference standards.
AA. Cobalt-57	AA. Any	AA. 1 microcurie total	AA. For use as calibration and reference standards. For use in routine analytical analysis for characterization.
AB. Cerium-141	AB. Any	AB. 10 microcuries total	AB. For use in routine analytical analysis for characterization.
AC. Cesium-134	AC. Any	AC. 10 microcuries total	AC. For use in routine analytical analysis for characterization.
AD. Iodine-131	AD. Any	AD. 10 microcuries total	AD. For use in routine analytical analysis for characterization.
AE. Niobium-95	AE. Any	AE. 10 microcuries total	AE. For use in routine analytical analysis for characterization.
AF. Ruthenium-103	AF. Any	AF. 10 microcuries total	AF. For use in routine analytical analysis for characterization.
AG. Ruthenium-106	AG. Any	AG. 10 microcuries total	AG. For use in routine analytical analysis for characterization.

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AH. Antimony-125	AH. Any	AH. 10 microcuries total	AH. For use in routine analytical analysis for characterization.
AI. Zirconium-95	AI. Any	AI. 10 microcuries total	AI. For use in routine analytical analysis for characterization.
AJ. Neptunium-239	AJ. Any	AJ. 5 microcuries total	AJ. For use in routine analytical analysis for characterization.
AK. Chlorine-36	AK. Any	AK. 5 microcuries total	AK. For use in routine analytical analysis for characterization.
AL. Any byproduct material	AL. Solid	AL. 1,000 kilograms in uranium mill tailings and waste	AL. For use in 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 2393 Salt Creek Highway, Casper, Wyoming, 82601.
11. A. Licensed material shall only be used by, or under the supervision of, Dave Blaida or Dee Fairservis.
- B. The Radiation Safety Officer (RSO) for this license is Christy N. Hutchinson.
12. 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.

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13. 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 March 14, 2013 (ML13088A579)
- B. Letter dated August 28, 2013 (ML13241A244)
- C. Letter with attachments dated October 29, 2015 (ML15356A821)
- D. Letter with attachments dated September 15, 2016 (ML46274A133)
- E. Letter with attachments dated January 10, 2017 (ML17019A354)



FOR THE U.S. NUCLEAR REGULATORY COMMISSION

Date: January 9, 2018By: /RA/Roberto J. Torres  
Region IV