**UNITED STATES**
**NUCLEAR REGULATORY COMMISSION**
**REGION IV**
**1600 E. LAMAR BLVD**
**ARLINGTON TX 76011-4511**

April 11, 2019

Dee Fairservis
Radiation Safety Officer
Energy Laboratories, Inc.
2393 Salt Creek Hwy
Casper, WY 82601

SUBJECT: LICENSE AMENDMENT

Dear Ms. Fairservis:

Please find enclosed Amendment No. 18 to NRC License No. 49-26846-01 changing your radiation safety officer and mailing address, as requested. An environmental assessment for this licensing action is not required since this action is categorically excluded under 10 CFR 51.22(c)(10)(iii), (iv), (v), and 51.22(c)(14)(xvi). You should review this license carefully and be sure that you understand all conditions. You can contact me at (817) 200-1286 if you have any questions about this license.

Note that your license and license conditions have been updated in a new format. Please review your license and notify this office if you identify any discrepancies or have any questions.

The NRC's Safety Culture Policy Statement became effective in June 2011. While a policy statement is not a regulation, it sets forth the agency's expectations for individuals and organizations to establish and maintain a positive safety culture. You can access the policy statement and supporting material that may benefit your organization on NRC's safety culture Web site at www.nrc.gov/about-nrc/regulatory/enforcement/safety-culture.html. We strongly encourage you to review this material and adapt it to your particular needs in order to develop and maintain a positive safety culture as you engage in NRC-regulated activities.

NRC expects licensees to conduct their programs with meticulous attention to detail and a high standard of compliance. Because of the serious consequences to employees and the public that can result from failure to comply with NRC requirements, you must conduct your radiation safety program according to the conditions of your NRC license, representations made in your license application, and NRC regulations. In particular, note that you must:

1. Operate by NRC regulations 10 CFR Part 19, "Notices, Instructions and Reports to Workers: Inspection and Investigations," 10 CFR Part 20, "Standards for Protection Against Radiation," and other applicable regulations.

2. Notify NRC in writing of any change in mailing address.

3. By 10 CFR 30.36(d) and/or license condition, notify NRC, promptly, in writing, and request termination of the license:

   a. When you decide to terminate all activities involving materials authorized under the license whether at the entire site or any separate building or outdoor area;

   b. If you decide not to acquire or possess and use authorized material; or

   c. When no principal activities under the license have been conducted for a period of 24 months.

4. Request and obtain a license amendment before you:

   a. Change Radiation Safety Officers;

   b. Order byproduct material in excess of the amount, radionuclide or form authorized on the license;

   c. Add or change the areas or address(es) of use identified in the license application or on the license; or

   d. Change the name or ownership of your organization.

5. Submit a complete renewal application or termination request at least 30 days before the expiration date on your license. You will receive a reminder notice approximately 90 days before the expiration date. Possession of radioactive material after your license expires is a violation of NRC regulations.

In addition, please note that NRC Form 313 requires the applicant, by signature, to verify that the applicant understands that all statements contained in the application are true and correct to the best of the applicant's knowledge. The signatory for the application should be the licensee or certifying official rather than a consultant. Since the NRC also accepts a letter requesting amendment of an NRC license, the signatory for such a request should also be the licensee or certifying official rather than a consultant.

NRC will periodically inspect your radiation safety program. Failure to conduct your program according to NRC regulations, license conditions, and representations made in your license application and supplemental correspondence with NRC may result in enforcement action against you. This could include issuance of a notice of violation; imposition of a civil penalty; or an order suspending, modifying, or revoking your license as specified in the NRC Enforcement Policy. The NRC Enforcement Policy is available on the following internet address: www.nrc.gov/about-nrc/regulatory/enforcement/enforce-pol.html.

An electronic version of the NRC's regulations is available on the NRC Web site at www.nrc.gov. Additional information regarding use of radioactive materials may be obtained on the NRC Web site at https://www.nrc.gov/materials/miau/mat-toolkits.html. This site also provides the link to the toolbox for updated information on the revised regulations for naturally-occurring and accelerator-produced radioactive materials (NARM).

In accordance with 10 CFR 2.390 of the NRC's "Rules of Practice," a copy of this letter and its enclosure will be available electronically for public inspection in the NRC Public Document Room or from the NRC's document system (ADAMS). ADAMS is accessible from the NRC Web site at www.nrc.gov/reading-rm/adams.html.

Thank you for your cooperation.

Sincerely,

Latischa M. Hanson, M.S., Health Physicist
Materials Licensing and Inspection Branch

Docket: 030-29502
License: 49-26846-01
Control: 611286

Enclosure: As stated

Amendment No. 18

# 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.

| Licensee | In accordance with emails dated February 08, 2019, and April 11, 2019 | 4. Expiration Date: September 30, 2023 |
|---|---|---|
| 1. Energy Laboratories, Inc.<br><br>2. 2393 Salt Creek Highway<br>Casper, WY 82601 | 3. License number: 49-26846-01 is amended in its entirety to read as follows: | 5. Docket No.: 030-29502<br>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. 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. |

**MATERIALS LICENSE SUPPLEMENTARY SHEET**

License Number 49-26846-01

Amendment No. 18

Docket or Reference Number 030-29502

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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 [redacted] 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 Dee Fairservis.

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.

| MATERIALS LICENSE SUPPLEMENTARY SHEET | License Number 49-26846-01 | Docket or Reference Number 030-29502 |
|---|---|---|
| | Amendment No. 18 | |

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 (ML13240A244)
C. Letter with attachments dated October 29, 2015 (ML15356A821)
D. Letter with attachments dated September 15, 2016 (ML16274A133)
E. Letter with attachments dated January 10, 2017 (ML17019A354)

FOR THE U.S. NUCLEAR REGULATORY COMMISSION

Date: April 11, 2019

By: Latischa M. Hanson

Latischa M. Hanson
Region IV