

**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.

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| <p>Licensee</p> <p>1. Department of the Interior</p>                        | <p>In accordance with application dated January 9, 2017</p>                          | <p>4. Expiration Date: August 31, 2025</p>         |
| <p>2. 302 East 1860 South<br/>Bureau of Reclamation<br/>Provo, UT 84606</p> | <p>3. License number: 43-23744-01 is amended in its entirety to read as follows:</p> | <p>5. Docket No.: 030-31056<br/>Reference No.:</p> |

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| <p>6. Byproduct, source, and/or special nuclear material</p> <p>A. Cesium-137</p> <p>B. Americium-241/<br/>Beryllium</p> | <p>7. Chemical and/or physical form</p> <p>A. Sealed Sources (AEA Technology/QSA, Inc., Model CDCW556; Isotope Products Laboratories, Model HEG-137)</p> <p>B. Sealed Neutron Source (AEA Technology/QSA, Inc., Model AMNV.997; Isotope Products Laboratories, Model 3021, 3027, AM1.NO2)</p> | <p>8. Maximum amount that licensee may possess at any one time under this license</p> <p>A. 9 millicuries per source and 90 millicuries total</p> <p>B. 44 millicuries per source and 440 millicuries total</p> | <p>9. Authorized use</p> <p>A. For use in Troxler Electronic Laboratories Model 3400 Series portable gauges for measuring physical properties of materials.</p> <p>B. For use in Troxler Electronic Laboratories Model 3400 Series portable gauges for measuring physical properties of materials.</p> |
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**CONDITIONS**

10. A. Licensed material may be used or stored only at the licensee's facilities located at:
1. 302 East 1860 South, Provo, Utah, 84603
  2. 1235 La Plata Highway, Farmington, New Mexico

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3. Tehama Colusa Canal Authority (TCCA) Compound, 5513 Highway 162, Willow, California, 95988
4. U.S. Bureau of Reclamation, Yuma Area Office, 7301 Calle Agua Salada, Yuma, Arizona, 85364

- B. Licensed material may be used at temporary job sites anywhere in the United States where the U.S. Nuclear Regulatory Commission maintains jurisdiction for regulating the use of licensed material, including areas of exclusive Federal jurisdiction within Agreement States.

If the jurisdiction status of a Federal facility within an Agreement State is unknown, the licensee should contact the Federal agency controlling the job site in question to determine whether the proposed job site is an area of exclusive Federal jurisdiction. Authorization for use of radioactive materials at job sites in Agreement States not under exclusive Federal jurisdiction shall be obtained from the appropriate state regulatory agency.

11. Licensed materials may be used by, or under the supervision and in the physical presence of, individuals who have received the training described in application dated August 13, 2015.
12. The Radiation Safety Officer (RSO) for this license is Mark Peaslee.
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 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 U.S. Nuclear Regulatory Commission under 10 CFR 32.210 or by an Agreement State prior to the transfer, a sealed source or detector cell 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 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 U.S. Nuclear Regulatory Commission, Region IV, 1600 East Lamar Blvd., Arlington, Texas 76011-4511, ATTN: Director, Division of Nuclear Materials Safety. The report shall specify the source involved, the test results, and corrective action taken.
- E. 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.
- F. Records of leak tests results shall be kept in units of microcuries and shall be maintained for 3 years.
14. Sealed sources or source rods containing licensed material shall not be opened or sources removed or detached from source rods or gauges 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 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. Except for maintaining labeling as required by 10 CFR Part 20 or 71, the licensee shall obtain authorization from U.S. Nuclear Regulatory Commission before making any changes in the sealed source, device, or source-device combination that would alter the description or specifications as indicated in the respective Certificates of Registration issued either by the Commission pursuant to 10 CFR 32.210 or by an Agreement State.

