

**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 application dated April 16, 2015
1. Nuclear Testing Services, LLC	3. License number 43-17936-01 is amended in its entirety to read as follows:
2. 583 West Billinis Road #2 Salt Lake City, Utah 84115	4. Expiration date December 31, 2025
	5. Docket No. 030-13675 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. Cesium-137	A. Sealed sources (AEA Technology/QSA, Inc., Model No. CDCW556; Isotope Product Laboratories Model No. HEG-137)	A. 9 millicuries per source and 65 millicuries total.
B. Americium-241	B. Sealed neutron sources (AEA Technology/QSA, Inc., Model No. AMNV.997; Isotope Product Laboratories Model Nos. AM1.NO2, 3021 and 3027)	B. 44 millicuries per source and 310 millicuries total.

9. Authorized use:	A. and B. In Troxler Exelectronics Laboratories, Inc., Model 3400 Series portable gauging devices for measuring physical properties of materials.
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**CONDITIONS**

10. Licensed material may be used or stored at the licensee's facilities located at:
- A. Temporary job sites anywhere in the United States where the U.S. Nuclear Regulatory Commission maintains jurisdiction for regulating 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.

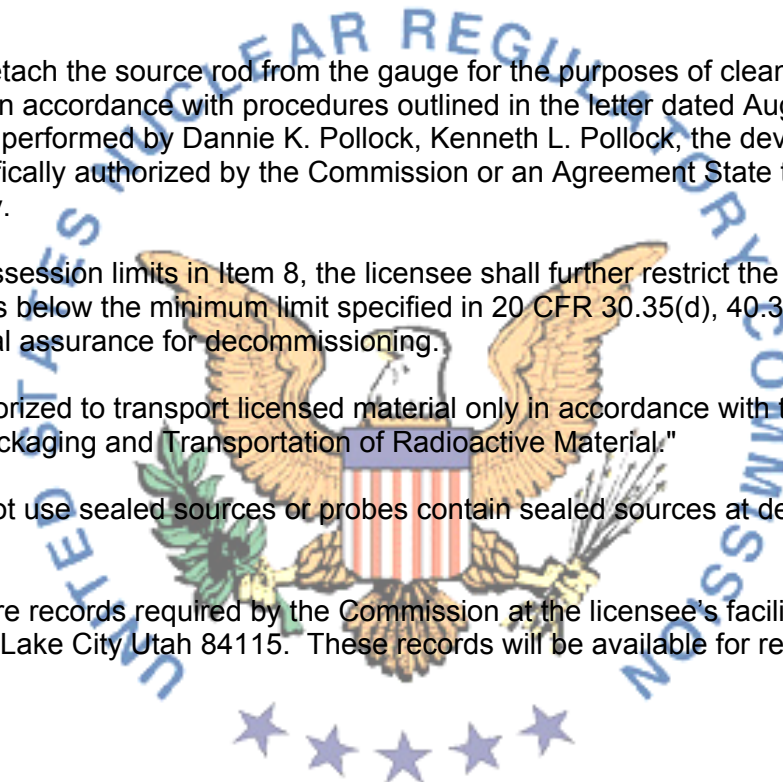
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11. Licensed materials shall only be used by, or under the supervision and in the physical presence of individuals who have received the training described in the application dated April 16, 2015
12. The Radiation Safety Officer (RSO) for this license is Kenneth L. Pollock.
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.
- 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.
- 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. 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.

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15. Each portable nuclear gauge shall have a lock or outer locked container designed to prevent unauthorized or accidental removal of the sealed source from its shielded position. The gauge or its container must be locked when in transport, storage or when not under the direct surveillance of an authorized user.
  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.
  17. The licensee may detach the source rod from the gauge for the purposes of cleaning, maintenance, or repair of the gauge in accordance with procedures outlined in the letter dated August 24, 2005. This activity may only be performed by Dannie K. Pollock, Kenneth L. Pollock, the device manufacturer or other persons specifically authorized by the Commission or an Agreement State to perform this specific maintenance activity.
  18. In addition to the possession limits in Item 8, the licensee shall further restrict the possession of licensed Material to quantities below the minimum limit specified in 20 CFR 30.35(d), 40.36(b) and 70.25(d) for Establishing financial assurance for decommissioning.
  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."
  20. The licensee shall not use sealed sources or probes contain sealed sources at depths exceeding 3 feet below the surface.
  21. The licensee will store records required by the Commission at the licensee's facility located at 583 West Billins Road #2, Salt Lake City Utah 84115. These records will be available for review during NRC inspections.
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22. 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 April 16, 2015 (ML15166A502)



FOR THE U.S. NUCLEAR REGULATORY COMMISSION

Date: December 4, 2015By: /RA/  
Michelle R. Simmons, Health Physicist  
Nuclear Materials Safety Branch B  
Region IV  
Arlington, Texas 76011-4511