U.S. NUCLEAR REGULATORY COMMISSION

Amendment No. 29
Corrected Copy

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 letter dated December 19, 2019.	4. Expiration Date: September 30, 2022
1. American Engineering Testing, Inc. 2. 550 Cleveland Avenue North St. Paul, MN 55114	3. License number: 22-20271-01 is amended in its entirety to read as follows:	5. Docket No.: 030-18180 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. Cesium-137	A. Sealed Sources (AEA Technology/QSA, Inc., Model CDCW566; Isotopes Products Laboratories, Model HEG-137)	A. 9 millicuries per source and 315 millicuries total	A. For use in Troxler Electronic Laboratories Model 3400 Series portable gauges for measuring physical properties of materials.
B. Americium-241/ Beryllium	B. Sealed Neutron Source (AEA Technology/QSA, Inc., Model AMNV.997; Isotope Products Laboratories, Model AM1.NO2, 3021, 3027)	B. 44 millicuries per source and 1340 millicuries total	B. For use in Troxler Electronic Laboratories Model 3400 Series portable gauges for measuring physical properties of materials.
C. Cesium-137	C. Sealed Sources (CPN Internatinal, Inc., Model CPN-131)	C. 10 millicuries per source and 40 millicuries total	C. For use in CPN Internatinal, Inc. Model MC Series PORTAPROBE portable gauges for measuring physical properties of materials.
D. Americium-241/ Beryllium	D. Sealed Neutron Source (CPN International, Inc., Model CPN-131)	D. 50 millicuries per source and 200 millicuries total	D. For use in CPN Internatinal, Inc. Model MC Series PORTAPROBE portable gauges for measuring physical properties of materials.

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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	9. Authorized use
E. Cesium-137	E. Sealed Sources (AEA Technology/QSA, Inc., Model CDCW556; Isotope Products Laboratories, Model HEG-137)	E. 9 millicuries per source and 27 millicuries total	E. For use in Troxler Electronic Laboratories Model 4640 Series portable gauges for measuring physical properties of materials.
F. Americium-241/ Beryllium	F. Sealed Neutron Source (AEA Technology/QSA, Inc., Model AMNV.340 or AMNV.339; Eckert & Zielger Isotope Products, Model 3021-2; Isotope Products Laboratories, Model AM1.NO2, 3021 and 3027)	F. 100 millicuries per source and 300 millicuries total	F. For use in Troxler Electronic Laboratories Model 3241 Series portable gauges for measuring physical properties of materials.
G. Americium-241/ Beryllium	G. Sealed Neutron Source (AEA Technology/QSA, Inc., Model AMNV.997; Isotope Products Laboratories, Model AM1.NO2)	G. 11 millicuries per source and 22 millicuries total	G. For use in Troxler Electronic Laboratories Model 4300 Series portable gauges for measuring physical properties of materials.
H. Cesium-137	H. Sealed Sources (AEA Technology/QSA, Inc., Model CDC.805; Isotope Product Laboratories, Model HEG-137)	H. 11 millicuries per source and 11 millicuries total	H. For use in InstroTek, Inc., Model 3500 portable gauging devices for measuring physical properties of materials
I. Americium-241/ Beryllium	I. Sealed Sources (AEA Technology/QSA, Inc., Model AMNV.997; Isotope Product Laboratories, Model AM1.NO2)	I. 44 millicuries per source and 44 millicuries total	I. For use in InstroTek, Inc., Model 3500 portable gauging devices for measuring physical properties of materials

CONDITIONS

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

A. 1669 Samco Road, Rapid City, South Dakota, 57702

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B. 601 East 48th Street North, Sioux Falls, South Dakota

C. 72 East Ridge Road, Sheridan, Wyoming, 82801

D. 2801 E. 2nd Street, Gilette, Wyoming, 82718

E. 605 N. Warehouse Road, Casper, Wyoming, 82601

F. 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 shall be used by, or under the supervision and in the physical presence of, individuals who have received the training described in the application dated March 7, 2012.

12. A. The Radiation Safety Officer (RSO) for this license is Paul Michlig.

B. Before assuming the duties and responsibilities as RSO for this license, future RSOs shall have successfully completed one of the training courses described in Criteria in Section 8.7 of NUREG-1556, Volume 1, Revision 1, dated November 2001.

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.

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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 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.

D. The leak test shall be capable of detecting the presence of 185 becquerels (0.005 microcuries) of radioactive material on the test sample. If the test reveals the presence of 185 becquerels (0.005 microcuries) 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.

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. 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.

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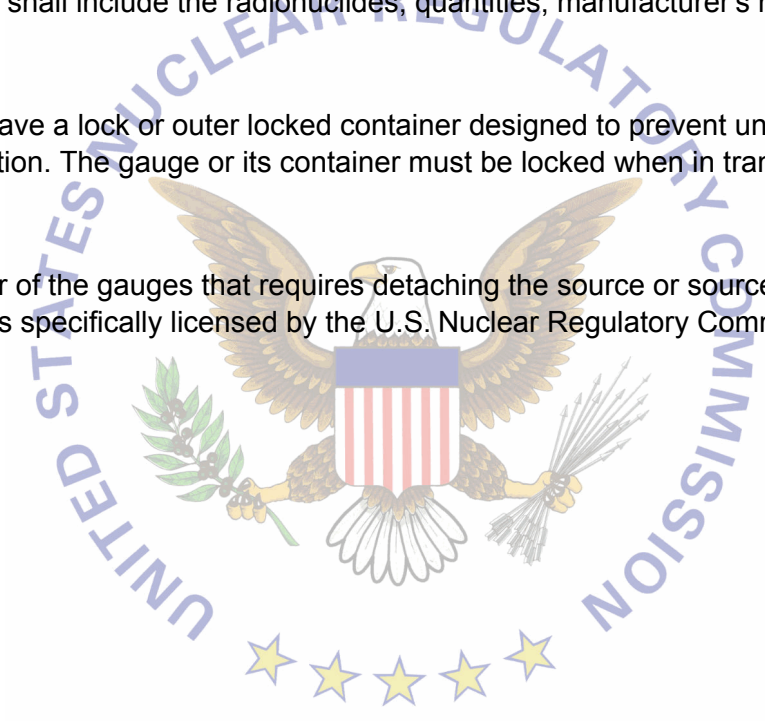
16. The licensee shall conduct a physical inventory every 6 months, or at other intervals approved by the U.S. Nuclear Regulatory Commission, to account for all sources and/or devices received and possessed under the license. Records of inventories shall be maintained for 5 years from the date of each inventory, and shall include the radionuclides, quantities, manufacturer's name and model numbers, and the date of the inventory.

17. 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.

18. Any cleaning, maintenance, or repair of the gauges that requires detaching the source or source rod from the gauge shall be performed only by the manufacturer or other persons specifically licensed by the U.S. Nuclear Regulatory Commission or an Agreement State to perform such services.



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19. 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 March 7, 2012 [ML12114A362]

B. Letter dated September 13, 2012 [ML12256A903]

FOR THE U.S. NUCLEAR REGULATORY COMMISSION

Date: April 15, 2020

By: Michelle R. Simmons
Digitally signed by Michelle R. Simmons
Date: 2020.04.15 07:11:36 -05'00'

Michelle R. Simmons
Region 4