

**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, 39, 40, and 70, 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  1. Wyoming Office of Homeland Security  2. 2421 East 7 <sup>th</sup> Street Cheyenne, Wyoming 82001	In accordance with letter dated June 21, 2011 3. License number 49-08631-01 is amended in its entirety to read as follows: 4. Expiration date August 31, 2015 5. Docket No. 030-07474 Reference No.
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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
A. Cesium-137	A. Sealed sources (3M Company Models 4P6E, 4F6H, 4D6L, or 4F6S; U.S. Nuclear Model 375; Isotope Product Laboratories Model 193; J.L. Shepherd & Associates Model 6810; or Amersham Corporation Models CDC.93, CDC.192, CDC.PE2, CDC.PE3, CDC.PE4, CDC.PE5, CDC.PE6, CDC.PE7, or CDC.800 Series)	A. 600 millicuries per source and 600 millicuries total
B. Cesium-137	B. Sealed source (3M Company Model 4F6S)	B. 100 millicuries per source and 100 millicuries total
C. Americium-241	C. Sealed source (QSA Global Code No. AMRB11586, OZ 755)	C. 0.018 microcuries per source and 0.018 microcuries total

## 9. Authorized use:

- A. and B. To be used in a J.L. Shepherd & Associates Model 28-6 instrument calibrator (SN10308) for field calibrations of instrumentation, daily instrument operations checks and field support of response exercises, and for storage in a J.L. Shepherd & Associates storage shield (SN22503) when not in use.
- C. To be used in a Canberra iSolo low energy alpha-beta counter in field calibrations of instrumentation and field support of response exercises and operations.

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**CONDITIONS**

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

- A. 2421 East 7<sup>th</sup> Street, Cheyenne, Wyoming, and
- B. Licensed materials identified in Item 7.A. and Item 7.B., may be used at temporary job sites of the licensee 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, Scott W. Ramsay or Douglas Edmiston. Sealed source sets may be used by individuals who have been so authorized by the licensee's Radiological Advisory Committee.
- 12. The Radiation Safety Officer (RSO) for this license is Scott W. Ramsay.
- 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. Notwithstanding Paragraph A of this Condition, sealed sources designed to primarily emit alpha particles shall be tested for leakage and/or contamination at intervals not to exceed 3 months.
  - C. 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.
  - D. Sealed sources need not be tested if they contain only hydrogen-3; or they contain only a radioactive gas; or the half life of the isotope is 30 days or less; or they contain not more than 100 microcuries of beta and/or gamma emitting material or not more than 10 microcuries of alpha emitting material.
  - E. 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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- F. 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, 612 East Lamar Blvd., Suite 400, Arlington, Texas 76011-4125, ATTN: Director, Division of Nuclear Materials Safety. The report shall specify the source involved, the test results, and corrective action taken.
- G. Tests for leakage and/or contamination shall be performed by the licensee or other 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 for analysis by persons specifically licensed by the Commission or an Agreement State to perform such services.
- H. Records of leak tests results shall be kept in units of microcuries and shall be maintained for 3 years.
14. A. Each sealed source containing licensed material to be used outside of a shielded exposure device shall have a durable, legible, and visible tag permanently attached by a durable ring. The tag shall be at least 1 inch square, shall bear a conventional radiation symbol prescribed in 10 CFR 20.1901 and a minimum of the following instructions: DANGER – RADIOACTIVE MATERIAL – DO NOT HANDLE – NOTIFY CIVIL AUTHORITIES IF FOUND.
- B. Replacement of tags and rings shall be carried out by the licensee in accordance with instructions contained in procedures provided by the Wyoming Office of Homeland Security, Emergency Management Agency.
15. Sealed sources or detector cells containing licensed material shall not be opened by the licensee, except as specifically authorized.
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. 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."

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18. 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 28, 2005 (ML051150527)
- B. Letter dated January 25, 2007 (ML071370749)
- C. Facsimile dated March 21, 2007 (ML070860955)
- D. Letter dated June 21, 2011 (ML11188A099)



FOR THE U.S. NUCLEAR REGULATORY COMMISSION

**/RA/**Date August 25, 2011

By

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