

U.S. NUCLEAR REGULATORY COMMISSION

**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.

<p style="text-align: center;">Licensee</p> <p>1. Department of Homeland Security Federal Emergency Management Agency Center for Domestic Preparedness</p> <p>2. 61 Responder Drive Anniston, Alabama 36205</p>	<p>In accordance with the letter dated December 3, 2014,</p> <p>3. License number 01-31331-01 is amended in its entirety to read as follows:</p> <hr/> <p>4. Expiration date November 30, 2018</p> <hr/> <p>5. Docket No. 030-37827 Reference No.</p>
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<p>6. Byproduct, source, and/or special nuclear material</p> <p>A. Nickel 63</p> <p>B. Cesium 137</p> <p>C. Americium 241</p>	<p>7. Chemical and/or physical form</p> <p>A. Sealed Sources (Isotope Products Laboratory Models NER-004, NER-004P, and NER-004R; AEA Technologies Models MBCQ8681, NBC, and NBC.34; Nuclear Research Corporation Model N1001)</p> <p>B. Sealed Sources (Office of Civil Defense Model OCD-S-104 manufactured by Atomchem Corporation and/or Nuclear Chicago)</p> <p>C. Sealed Sources (NRD Inc. Model A-001)</p>	<p>8. Maximum amount that licensee may possess at any one time under this license</p> <p>A. Not to exceed 15 millicuries per source and 2 curies total</p> <p>B. 20 millicuries per source and 300 millicuries total</p> <p>C. Not to exceed 0.25 millicuries per source and 18 millicuries total</p>
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9. Authorized use:
- A. Teaching and training of students in Smiths Detection Model Nos. APD 2000 and ICAM Ion Mobility Spectrometer devices or Bruker Daltonics NBC Detection Corporation Model RAID-M Ion Mobility Spectrometer devices that have been registered either with the U.S. Nuclear Regulatory Commission under 10 CFR 32.210 or with an Agreement State and have been distributed in accordance with a Commission or Agreement State specific license authorizing distribution to persons specifically authorized by a Commission or Agreement State license to receive, possess, and use the devices.

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- B. Teaching and training of students; calibration and checking of the licensee's instruments.
- C. Teaching and training of students in Brunswick Defense Model M8A1 chemical agent detection devices that have been registered either with the U.S. Nuclear Regulatory Commission under 10 CFR 32.210 or with an Agreement State and have been distributed in accordance with a Commission or Agreement State specific license authorizing distribution to persons specifically authorized by a Commission or Agreement State license to receive, possess, and use the devices.

**CONDITIONS**

10. Licensed material may be used or stored at the licensee's facilities located at the Main Responder Training Complex, 61 Responder Drive, Anniston, Alabama; the Chemical, Ordnance, Biological, Radiological Training Facility (COBRATF), 801 Walt Philips Road, Anniston, Alabama; the Noble Training Facility (NTF), 490 Care Drive, Anniston, Alabama; the 500 Area Training Complex, 363 Wall Street, Anniston, Alabama; the CDP Eastern Region storage location, Brooklyn Homeland Security, 2615 W. 13<sup>th</sup> Street, Brooklyn, New York; the CDP Central Region storage location, Central Region Inventory Control Facility, 5973 West, 400 South, Jamestown, Indiana; and the CDP Western Region storage facility, Western Region Inventory Control Facility, 1201 Blucher Avenue, Granada Hills, California; and at temporary job sites of the licensee anywhere in the United States.
11. Licensed material shall be used by, or under the supervision of, John Blandamer and Michael Vice.
12. The Radiation Safety Officer for this license is Michael Vice.
13. 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(a) 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 Federal Emergency Management Agency.
14. A. Sealed sources shall be tested for leakage and/or contamination at intervals not to exceed six months or at the intervals specified in the certificate of registration issued by the U.S. Nuclear Regulatory Commission under 10 CFR 32.210 or under equivalent regulations of 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.

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- 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 the U.S. Nuclear Regulatory Commission under 10 CFR 32.210 or under equivalent regulations of an Agreement State, prior to the transfer, a sealed source 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.
- 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.
- G. Tests for leakage and/or contamination, limited to leak test sample collection, shall be performed by the licensee or by other persons specifically licensed by the U.S. Nuclear Regulatory Commission or an Agreement State to perform such services. The licensee is not authorized to perform the analysis; analysis of leak test samples must be performed by persons specifically licensed by U.S. Nuclear Regulatory Commission or an Agreement State to perform such services.
- H. Records of leak test results shall be kept in units of microcuries and shall be maintained for 5 years.
15. The licensee shall conduct a physical inventory every six 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. Sealed sources or detector cells containing licensed material shall not be opened or sources removed from source holders by the licensee.

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17. 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 August 25, 2008 [ML082620374]
- B. Letter dated November 11, 2008 [ML083220311]



For the U.S. Nuclear Regulatory Commission

Date January 7, 2015

By *Original signed by Dennis R. Lawyer*  
 Dennis R. Lawyer  
 Commercial, Industrial, R&D and Academic Branch  
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 Region I  
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