

U.S. NUCLEAR REGULATORY COMMISSION

Amendment No. 11

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>Licensee</p> <p>U. S. Department of Health and Human Services</p> <p>1. Centers for Disease Control and Prevention</p> <p>National Institute for Occupational Safety and Health</p> <p>2. P. O. Box 18070</p> <p>626 Cochrans Mill Road</p> <p>Pittsburgh, Pennsylvania 15236</p>	<p>In accordance with letter dated July 7, 2011,</p> <p>3. License number 37-01712-11 is amended in its entirety to read as follows:</p> <hr/> <p>4. Expiration date August 31, 2013</p> <hr/> <p>5. Docket No. 030-19474</p> <p>Reference No.</p>
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<p>6. Byproduct, source, and/or special nuclear material</p> <p>A. Krypton 85</p> <p>B. Polonium 210</p> <p>C. Americium 241</p> <p>D. Americium 241</p>	<p>7. Chemical and/or physical form</p> <p>A. Sealed sources</p> <p>B. Plated Foils</p> <p>C. Sealed Source</p> <p>D. Plated Foils</p>	<p>8. Maximum amount that licensee may possess at any one time under this license</p> <p>A. 10 millicuries per source and 600 millicuries total</p> <p>B. 0.5 millicuries</p> <p>C. 0.01 millicuries per source and 0.1 millicuries total</p> <p>D. 50 microcuries</p>
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9. Authorized use:

A. In Thermo-systems, Inc Dust/Aerosol Neutralizers and in Becon and World international smoke detectors.

B. In Nuclear Products Company Model 2U500 Static Master Ionizing Unit.

C. and D. In sources purchased through retail sales to be used for development of prototype instrumentation that detects or measures concentrations of airborne particles.

CONDITIONS

10. Licensed material may be used or stored at the licensee's facilities located at 626 Cochrans Mill Road, Pittsburgh, Pennsylvania and at temporary job sites of the licensee anywhere in the United States.
11. A. Licensed material shall be used by, or under the supervision of, Kenneth L. Cashdollar, John C. Edwards, Carl T. Ornot, Alex C. Smith, or Beth Tomasovic.
- B. Licensed material listed in Item 6.A. above shall be used by, or under the supervision of, Pengfei Gao, John Opferman, Don Tuchman, Bob Vinson, or Dennis Viscusi.

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- C. Licensed material listed in Items 6.C and D above shall be used by, or under the supervision of, Charles D. Litton.
12. The Radiation Safety Officer for this license is Carl T. Ornot.
13. The licensee shall not use licensed material in or on human beings.
14. The licensee shall not use licensed material in field applications where it is released except as provided otherwise by specific condition of this license.
15. 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.
- 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. 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.
- G. Records of leak test results shall be kept in units of microcuries and shall be maintained for 5 years.

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16. 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.
17. Sealed sources or detector cells containing licensed material shall not be opened or sources removed from source holders by the licensee.
18. The licensee is authorized to transport licensed material in accordance with the provisions of 10 CFR Part 71, "Packaging and Transportation of Radioactive Material."
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. Letter dated August 7, 2003 [ML032260171]
 - B. Letter dated June 16, 2004 [ML041830475]
 - C. Letter dated October 8, 2004 [ML042920485]

For the U.S. Nuclear Regulatory Commission

Date August 31, 2011

By

Original signed by Elizabeth UllrichElizabeth Ullrich
Commercial and R&D Branch
Division of Nuclear Materials Safety
Region I
King of Prussia, Pennsylvania 19406