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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.

Licensee	In accordance with the application dated November 30, 2010,
1. Defense Intelligence Agency Missile and Space Intelligence Center	3. License number 01-25316-01 is amended in its entirety to read as follows:
2. Building 4545 Fowler Road ATTN: MSM Redstone Arsenal, Alabama 35898-5500	4. Expiration date September 30, 2018 5. Docket No. 03033658 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. Hydrogen 3	A. Activated paint	A. 1 curie
B. Hydrogen 3	B. Sealed glass ampules	B. 500 curies
C. Cobalt 60	C. Sealed sources	C. 10 millicuries
D. Nickel 63	D. Foils, plated sources, or sealed sources	D. 1 curie
E. Krypton 85	E. Sealed sources	E. 1 curie
F. Strontium 90	F. Sealed sources	F. 100 millicuries
G. Cesium 137	G. Sealed sources	G. 100 millicuries
H. Promethium 147	H. Sealed sources	H. 1 curie
I. Radium 226	I. Sealed sources	I. 1 millicurie
J. Americium 241	J. Encapsulated foils, plated sources, or sealed sources	J 10 millicuries
K. Plutonium 239	K. Encapsulated foils, plated sources, or sealed sources	K. 50 milligrams

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9. Authorized use:

A. through K. For receipt, removal from device holders, storage, and/or transfer.

CONDITIONS

10. Licensed material may be used or stored only at the licensee's facilities located at the Missile and Space Intelligence Center, Redstone Arsenal, Alabama, 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, Harold W. Deason.

12. The Radiation Safety Officer for this license is Harold W. Deason.

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. Each sealed source fabricated by the licensee shall be inspected and tested for construction defects, leakage, and contamination prior to any use or transfer as a sealed source.

    D. 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.

    E. 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.

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F. 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.

G. 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.

H. Tests for leakage and/or contamination, including leak test sample collection and analysis, 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.

I. Records of leak test results shall be kept in units of microcuries and shall be maintained for 5 years.

16. Sealed sources or detector cells containing licensed material shall not be opened by the licensee.

17. 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.

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. Notwithstanding 10 CFR 30.32(g) the licensee is authorized to use byproduct materials in the form of sealed sources that are not identified by source or device manufacturer and model number as registered with the Commission under 10 CFR 32.210 or with an Agreement State or to provide the information identified in 10 CFR 32.210(c).

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20. 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 December 29, 2004 (ML050140400)
    B. Letter received August 24, 2005 (ML052370154)
    C. Letter received November 1, 2005 (ML053120467)

For the U.S. Nuclear Regulatory Commission

Date February 8, 2011

By ***Original signed by Dennis R. Lawyer***

Dennis R. Lawyer
Commercial and R&D Branch
Division of Nuclear Materials Safety
Region I
King of Prussia, Pennsylvania 19406