

S. LaPoint
Department of the Army

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Thank you for your cooperation.

Sincerely,

Original signed by Elizabeth Ullrich

Betsy Ullrich
Senior Health Physicist
Nuclear Materials Safety Branch 2
Division of Nuclear Materials Safety

Enclosure:
Amendment No. 57

cc:
Craig S. Goldberg, Radiation Safety Officer

DOCUMENT NAME: G:\Docs\Current\Lic Cvr Letter\L29-01022-06.133356.wpd

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DATE	5/29/03						

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MATERIALS LICENSE

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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. Department of the Army U.S. Army Communications - Electronics Command AMSEL-SF-RER	In accordance with the letter dated June 27, 2003, 3. License number 29-01022-06 is amended in its entirety to read as follows:
2. Fort Monmouth, New Jersey 07703-5024	4. Expiration date February 28, 2005 5. Docket No. 030-05248 Reference No.

6. Byproduct, source, and/or special nuclear material A. Any byproduct material with atomic numbers 1 through 83 B. Any byproduct material with atomic numbers 1 through 83 C. Any byproduct material with atomic numbers 84 through 95 D. Hydrogen 3 E. Cobalt 60 F. Strontium 90 G. Cesium 137 H. Uranium (Natural or Depleted) I. Thorium (Natural) J. Polonium 210 K. Plutonium 238 L. Americium 241 M. Californium 252	7. Chemical and/or physical form A. Any B. Sealed sources C. Any D. Accelerator targets E. Sealed sources F. Sealed sources G. Sealed sources H. Any I. Any J. Any K. Sealed sources L. Any M. Sealed source	8. Maximum amount that licensee may possess at any one time under this license A. Not to exceed 1 curie per radionuclide and 10 curies total B. Not to exceed 50 millicuries per source and 2 curies total C. Not to exceed 1 millicurie total D. 30 curies E. [7] F. 5 curies G. [7] H. 5 kilograms I. 10 kilograms J. 10 microcuries K. 10 microcuries L. 1 millicurie M. []
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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 |
| N. Cesium 137 | N. Sealed sources
(J.L. Shepherd Model 6810) | N. [] Ex 2 |
| O. Cesium 137 | O. Sealed source
(J.L. Shepherd Model 6810) | O. [] |
| P. Cesium 137 | P. Sealed source
(J.L. Shepherd Model 6810) | P. 130 millicuries |

9. Authorized use:

- A. Research and development as defined in 10 CFR 30.4; for training and instrument calibrations; analysis of test samples as a service for persons as defined in 10 CFR 20.1003; calibration of instruments as a service for persons as defined in 10 CFR 20.1003 and the storage of contaminated materials
- B. through M. Research and development as defined in 10 CFR 30.4; for training and instrument calibrations; analysis of test samples as a service for persons as defined in 10 CFR 20.1003; calibration of instruments as a service for persons as defined in 10 CFR 20.1003.
- N. For use in a J.L. Shepherd Model 81-14Q calibrator; calibration of instruments as a service for persons as defined in 10 CFR 20.1003.
- O. and P. For use in a J.L. Shepherd Model 89-260 calibrator; calibration of instruments as a service for persons as defined in 10 CFR 20.1003

CONDITIONS

10. Licensed material may be used only at the licensee's facilities located at the U.S. Army Communications - Electronics Command, Fort Monmouth, New Jersey. Licensed material listed in Items 6.B., 7.B., and 8.B., 6.G., 7.G., and 8.G., and 6.L., 7.L, and 8.L. may be used at temporary job sites of the licensee anywhere in the United States.
11. A. Licensed material shall only be used by, or under the supervision of, individuals designated, in writing, by the Radiation Safety Committee. The licensee shall maintain records of individuals designated as users for 3 years following the last use of licensed material by the individual.
- B. The Radiation Safety Officer for this license is Craig S. Goldberg.

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12. The licensee shall not use licensed material in or on human beings.
13. The licensee shall not use licensed material in field applications where it is released except as provided otherwise by specific condition of this license.
14. Sealed sources or detector cells containing licensed material shall not be opened or sources removed from source holders by the licensee.
15. 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 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.
- 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.

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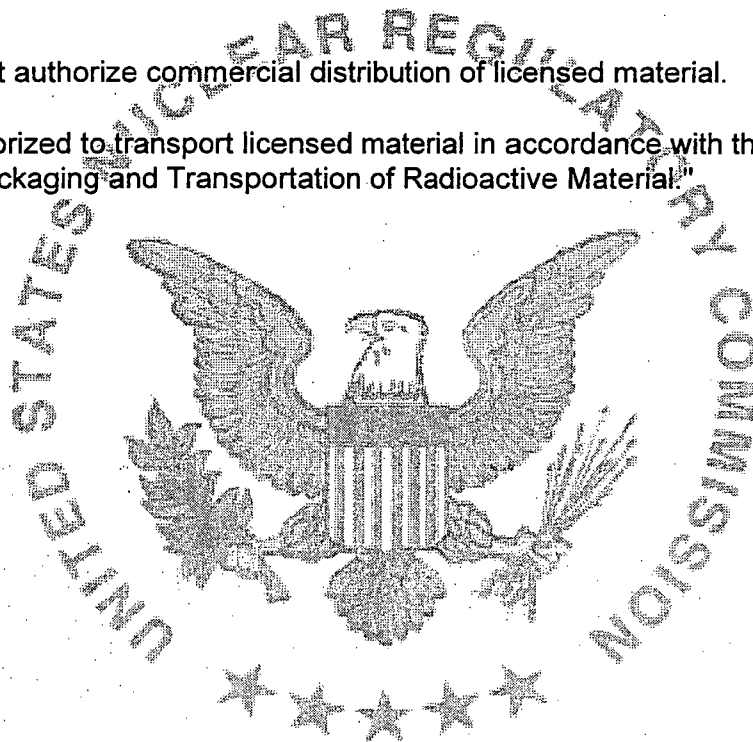
29-01022-06

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- I. Records of leak test results shall be kept in units of microcuries and shall be maintained for 5 years.
- 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. This license does not authorize commercial distribution of licensed material.
- 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"



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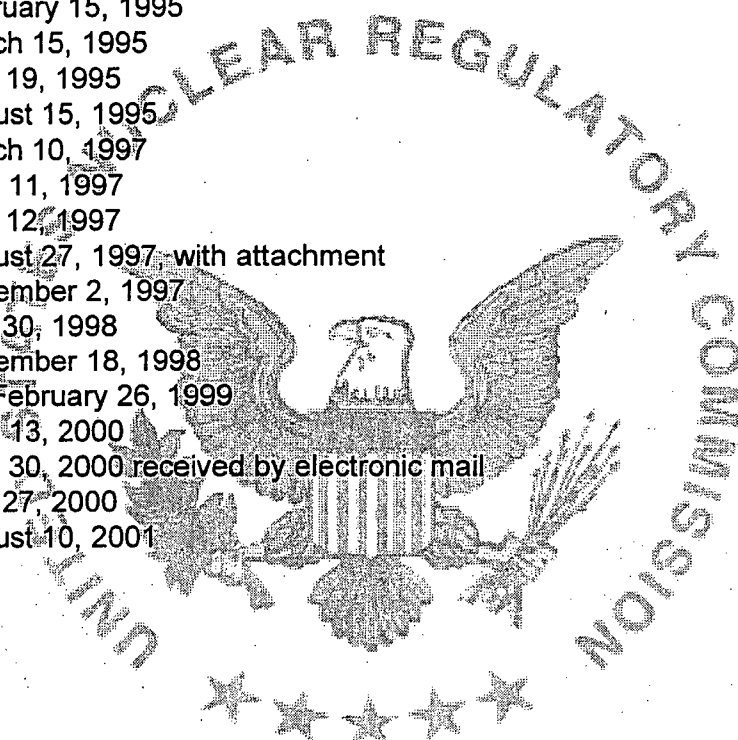
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19. Except as specifically provided otherwise in this license, the licensee shall conduct its program in accordance with the statements, representations, and procedures contained in the documents, including any enclosures, listed below. The U.S. Nuclear 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. Letter dated February 15, 1995
- B. Letter dated March 15, 1995
- C. Letter dated May 19, 1995
- D. Letter dated August 15, 1995
- E. Letter dated March 10, 1997
- F. Letter dated April 11, 1997
- G. Letter dated May 12, 1997
- H. Letter dated August 27, 1997 with attachment
- I. Letter dated December 2, 1997
- J. Letter dated July 30, 1998
- K. Letter dated November 18, 1998
- L. Facsimile dated February 26, 1999
- M. Letter dated April 13, 2000
- N. Letter dated April 30, 2000 received by electronic mail
- O. Letter dated July 27, 2000
- P. Letter dated August 10, 2001



For the U.S. Nuclear Regulatory Commission

Original signed by Elizabeth Ullrich

Date July 29, 2003

By _____

Elizabeth Ullrich
 Nuclear Materials Safety Branch 2
 Division of Nuclear Materials Safety
 Region I
 King of Prussia, Pennsylvania 19406

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