



UNITED STATES
NUCLEAR REGULATORY COMMISSION

REGION I
 475 ALLENDALE ROAD
 KING OF PRUSSIA, PA 19406-1415

May 5, 2000

Docket No. 030-05248
 Control No. 128013

License No. 29-01022-06

Stephen G. LaPoint
 Director, Directorate of Safety
 Department of the Army
 U.S. Army Communications-Electronics Command
 And Fort Monmouth
 ATTN: AMSEL-SF-RER
 Fort Monmouth, NJ 07703-5024

Dear Mr. LaPoint:

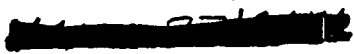
This refers to your license amendment request. Enclosed with this letter is the amended license.

The enclosed amendment authorizes the use of 10 Lightweight Laser Designator Rangefinder systems during research and development activities associated with this device. If you wish such devices to be distributed for general use, you must submit an application for registration of the device in accordance with 10 CFR 32.210. NUREG-1556, Volume 3, "Consolidated Guidance About Materials Licensees - Applications for Sealed Source and Device Evaluation and Registration" (enclosed) provides additional information regarding this process. The request for evaluation for registration should be sent directly to the Division of Industrial and Medical Safety, at the address listed in Section 7 of NUREG-1556, Volume 7. You should wait until you receive the results of the review prior to any request to amend your license(s) for general use of the devices.

Please review the enclosed document carefully and be sure that you understand and fully implement all the conditions incorporated into the amended license. If there are any errors or questions, please notify the U.S. Nuclear Regulatory Commission, Region I Office, Licensing Assistance Team, (610) 337-5093 or 5239, so that we can provide appropriate corrections and answers.

Information in this record was deleted
 in accordance with the Freedom of Information
 Act, exemptions 2
 FOIA 2006-0238

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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

Enclosures:

1. Amendment No. 50
2. NUREG-1556, Volume 3

cc:

Joseph M. Santarsiero, Radiation Safety Officer

DOCUMENT NAME: G:\Docs\Current\Lic Cvr Letter\L29-01022-06.128013.wpd

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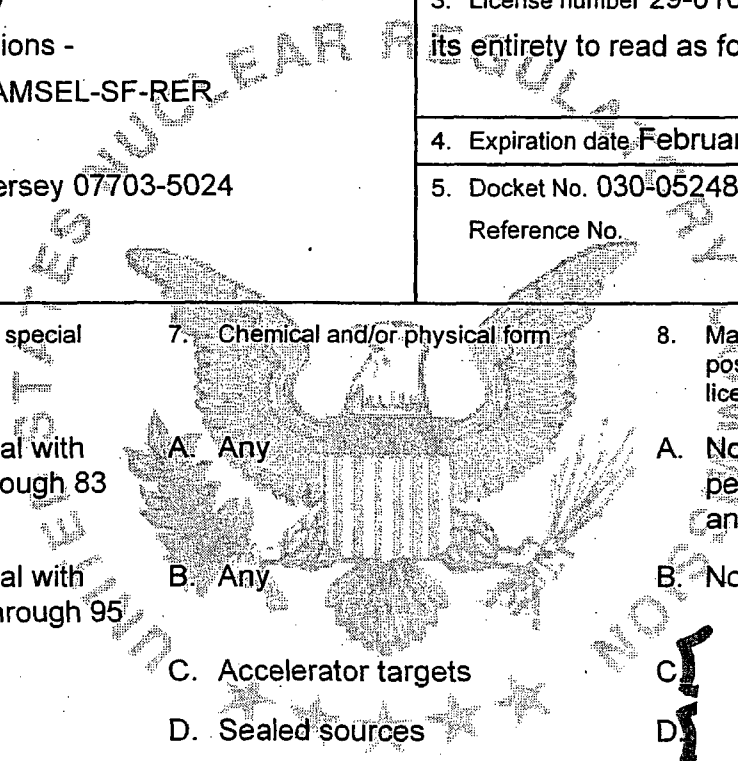
MATERIALS LICENSE

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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.

<p>Licensee</p> <p>1. Department of the Army U.S. Army Communications - Electronics Command AMSEL-SF-RER</p> <p>2. Fort Monmouth, New Jersey 07703-5024</p>	<p>In accordance with the letter dated April 13, 2000,</p> <p>3. License number 29-01022-06 is amended in its entirety to read as follows:</p> <hr/> <p>4. Expiration date, February 28, 2005</p> <hr/> <p>5. Docket No. 030-05248 Reference No.</p>
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<p>6. Byproduct, source, and/or special nuclear material</p> <p>A. Any byproduct material with atomic numbers 1 through 83</p> <p>B. Any byproduct material with atomic numbers 84 through 95</p> <p>C. Hydrogen 3</p> <p>D. Cobalt 60</p> <p>E. Strontium 90</p> <p>F. Cesium 137</p> <p>G. Uranium (Natural or Depleted)</p> <p>H. Thorium (Natural)</p> <p>I. Polonium 210</p> <p>J. Plutonium 238</p> <p>K. Americium 241</p> <p>L. Californium 252</p> <p>M. Cesium 137</p>	<p>7. Chemical and/or physical form</p> <p>A. Any</p> <p>B. Any</p> <p>C. Accelerator targets</p> <p>D. Sealed sources</p> <p>E. Sealed sources</p> <p>F. Sealed sources</p> <p>G. Any</p> <p>H. Any</p> <p>I. Any</p> <p>J. Sealed sources</p> <p>K. Any</p> <p>L. Sealed source</p> <p>M. Sealed sources (J.L. Shepherd Model 6810)</p>	<p>8. Maximum amount that licensee may possess at any one time under this license</p> <p>A. Not to exceed 1 curie per radionuclide and 10 curies total</p> <p>B. Not to exceed 1 millicurie total</p> <p>C. 7</p> <p>D. 7</p> <p>E. 5 curies</p> <p>F. 9</p> <p>G. 5 kilograms</p> <p>H. 10 kilograms</p> <p>I. 10 microcuries</p> <p>J. 10 microcuries</p> <p>K. 1 millicurie</p> <p>L. Duplicate</p> <p>M. Duplicate</p>
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EX 2

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EX 2

Duplicate MATERIALS LICENSE SUPPLEMENTARY SHEET

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License Number

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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 source (J.L. Shepherd Model 6810)
- O. Cesium 137
- O. Sealed source (J.L. Shepherd Model 6810)
- O. 130 millicuries

N. [1 Ex 2]

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 L. 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.
- M. 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.
- N. and O. 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.K., 7.K., and 8.K. may be used 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, individuals designated in writing by the Radiation Safety Committee, Joseph M. Santarsiero, Chairman.
- B. The Radiation Safety Officer for this license is Joseph M. Santarsiero.
- 12. Licensed material shall not be used in or on human beings.
- 13. The licensee shall not use licensed material in field applications where activity is released except as provided otherwise by specific condition of this license.
- 14. The licensee shall not acquire licensed material in a sealed source or device unless the source or device has been registered with the U.S. Nuclear Regulatory Commission pursuant to 10 CFR 32.210 or

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equivalent regulations of an Agreement State.

15. Sealed sources or detector cells containing licensed material shall not be opened or sources removed from source holders by the licensee.
16. A. Sealed sources and detector cells containing licensed material shall be tested for leakage and/or contamination at intervals not to exceed six months or at such other intervals as are specified by the certificate of registration referred to in 10 CFR 32.210, not to exceed three years.
- B. Notwithstanding Paragraph A of this Condition, sealed sources designed to emit alpha particles shall be tested for leakage and/or contamination at intervals not to exceed three months.
- C. In the absence of a certificate from a transferor indicating that a leak test has been made within six months prior to the transfer, a sealed source or detector cell received from another person shall not be put into use until tested.
- D. 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.
- E. Sealed sources and detector cells need not be leak tested if:
- (i) they contain only hydrogen-3; or
 - (ii) they contain only a radioactive gas; or
 - (iii) the half-life of the isotope is 30 days or less; or
 - (iv) they contain not more than 100 microcuries of beta and/or gamma emitting material or not more than 10 microcuries of alpha emitting material; or
 - (v) they are not designed to emit alpha particles, are in storage, and are not being used. However, when they are removed from storage for use or transfer 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 or detector cell shall be stored for a period of more than 10 years without being tested for leakage and/or contamination.

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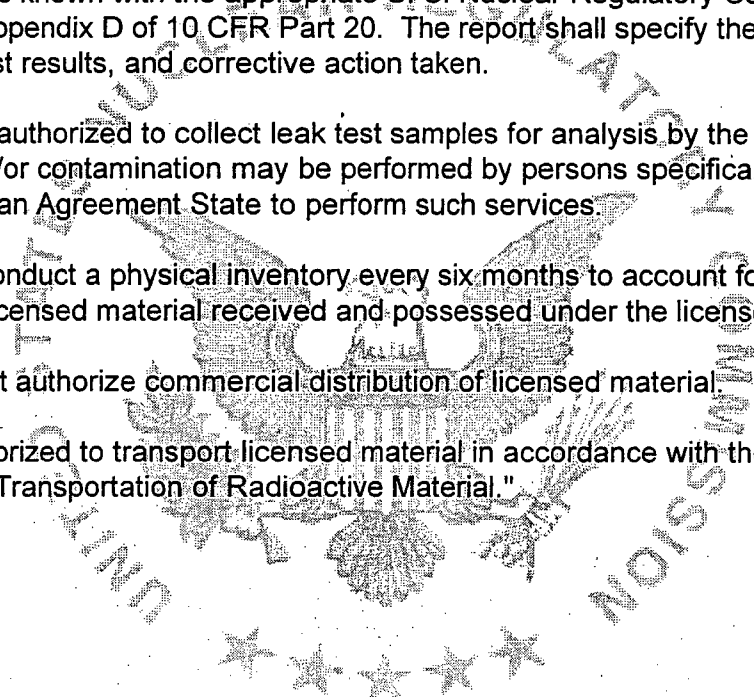
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- F. The test shall be capable of detecting the presence of 0.005 microcurie of radioactive material on the test sample. If the test reveals the presence of 0.005 microcurie or more of removable contamination, a report shall be filed with the U.S. Nuclear Regulatory Commission and the source or detector cell shall be removed immediately from service and decontaminated, repaired, or disposed of in accordance with Commission regulations. The report shall be filed within five days of the date the leak test result is known with the appropriate U. S. Nuclear Regulatory Commission, Regional Office referenced in Appendix D of 10 CFR Part 20. The report shall specify the source or detector cell involved, the test results, and corrective action taken.
- G. The licensee is authorized to collect leak test samples for analysis by the licensee. Alternatively, tests for leakage and/or contamination may be performed by persons specifically licensed by the Commission or an Agreement State to perform such services.
- 17. The licensee shall conduct a physical inventory every six months to account for all sealed sources and devices containing licensed material received and possessed under the license.
- 18. This license does not authorize commercial distribution of licensed material.
- 19. 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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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 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 July 30, 1997
- I. Letter dated August 27, 1997, with attachment
- J. Letter dated December 2, 1997
- K. Letter dated July 30, 1998
- L. Letter dated May 13, 1998, with attached survey report
- M. Letter dated November 18, 1998
- N. Facsimile dated February 26, 1999
- O. Letter dated September 10, 1999
- P. Letter dated September 23, 1999
- Q. Letter dated July 14, 1999, with attached survey report
- R. Letter dated September 1, 1999
- S. Letter dated September 10, 1999
- T. Letter dated April 13, 2000
- U. Letter dated April 30, 2000 received by electronic mail

For the U.S. Nuclear Regulatory Commission

Date May 5, 2000

By _____

Original signed by Elizabeth Ullrich

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

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