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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 07703-5301</p>	<p>In accordance with the letter dated September 25, 2002,</p> <p>3. License number 29-01022-07 is amended in its entirety to read as follows:</p> <hr/> <p>4. Expiration date October 31, 2012</p> <hr/> <p>5. Docket No. 030-06989 Reference No.</p>
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<p>6. Byproduct, source, and/or special nuclear material</p> <p>A. Cesium 137</p> <p>B. Cobalt 60</p>	<p>7. Chemical and/or physical form</p> <p>A. Sealed sources (J. L. Shepherd & Associates Model No. 6810)</p> <p>B. Sealed sources (J. L. Shepherd & Associates Model No. 7810)</p>	<p>8. Maximum amount that licensee may possess at any one time under this license</p> <p>A. 900 curies</p> <p>B. 2100 curies</p>
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9. Authorized use:

A. and B. To be used for irradiation of materials, except explosive and flammable materials, in a J. L. Shepherd & Associates Model 81-22 irradiator as specified in the device's Sealed Source and Device Registration Certificate issued by NRC pursuant to 10 CFR 32.210 or by an Agreement State.

CONDITIONS

10. Licensed material may be used at the licensee's facilities located at Building 2540A, Charles Wood Area, Wall Township, New Jersey.

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Docket or Reference Number

030-06989

Amendment No. 34

11. A. Licensed material shall only be used by, or under the supervision and in the physical presence of, individuals who have received the training described in letters dated February 13, 1998 and March 13, 1998.
- B. The Radiation Safety Officer for this license is Craig S. Goldberg.
12. Sealed sources containing licensed material shall not be opened or sources removed from the self-shielded irradiator by the licensee, except as specifically authorized by license condition.
13. 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 NRC under 10 CFR 32.210 or by an Agreement State.
- B. 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 prior to the transfer, a sealed source received from another person shall not be put into use until tested.
- C. Sealed sources need not be leak tested if they 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 leak 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.
- D. The leak test shall be capable of detecting the presence of 0.005 microcurie of radioactive material on the test sample. If the leak test reveals the presence of 0.005 microcurie or more of removable contamination, the licensee shall immediately remove the source from service, report to the Nuclear Regulatory Commission according to 10 CFR 30.52(b)(2) and (c)(1), and have the source decontaminated, repaired, or disposed of according to Commission regulations. The licensee shall file a written report according to 10 CFR 30.50(c)(2).
- E. Tests for leakage and/or contamination shall be performed by the licensee or other persons specifically licensed by the Commission or an Agreement State to perform such services. In addition, the licensee is authorized to collect leak test samples for analysis by persons specifically licensed by the Commission or an Agreement State to perform such services.
14. Before initiation of irradiator operations or after reloading of sources in the irradiator and before restart of the irradiator, a radiation survey shall be conducted to determine radiation levels around, above and below the irradiator with the sources in the shielded position and in the exposed position. The results of the survey shall be sent to the U.S. Nuclear Regulatory Commission, Region I, ATTN: Director, Division of Nuclear Materials Safety, 475 Allendale Road, King of Prussia, Pennsylvania 19406, not more than 30 days after the survey is conducted.

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16. The licensee shall conduct a physical inventory at intervals not to exceed 6 months to account for all sources and/or devices received and possessed under the license.
17. The licensee may transport licensed material in accordance with the provisions of 10 CFR 71, "Packaging and Transportation of Radioactive Material."
18. Except for maintaining labeling as required by 10 CFR 20 or 71, the licensee shall obtain authorization from NRC before making any changes in the sealed source, device, or source-device combination that would alter the description or the specifications in the respective Certificates of Registration issued either by the Commission pursuant to 10 CFR 32.210 or by an Agreement State.
19. The license shall not repair, remove, replace, or alter any of the following: electrical or mechanical systems that control source or shielding movement, the irradiator's shielding or sealed source, safety interlocks, or any component that may effect safe operation of the irradiator. These activities shall be performed by a person specifically licensed by the Commission or an Agreement State to perform such services.
20. For each J. L. Shepherd Mark I or 81-22 cesium-137 irradiator installed and used, the licensee shall:
- A. Permit the use of the irradiator only when a calibrated and operable radiation survey meter or room monitor is available; and
 - B. Permit the irradiator door to be opened only after the operator has checked visual indicators to verify that the source has returned to the safe storage position; and
 - C. Have room monitors that will:
 - (i) Operate at all times when the irradiator is in use; and
 - (ii) Activate a visible and audible alarm when radiation exceeds 2 millirem per hour; and
 - (iii) Detect any radiation leaking from the irradiator door; and
 - (iv) Be visible to the irradiator user when the user is next to the irradiator; or
 - D. If a room monitor is not installed, have available a calibrated and operable survey meter which will be used to:
 - (i) Determine the radiation level at the irradiator door when the door is closed; and
 - (ii) Check for any increase in radiation levels each time the irradiator door is opened.

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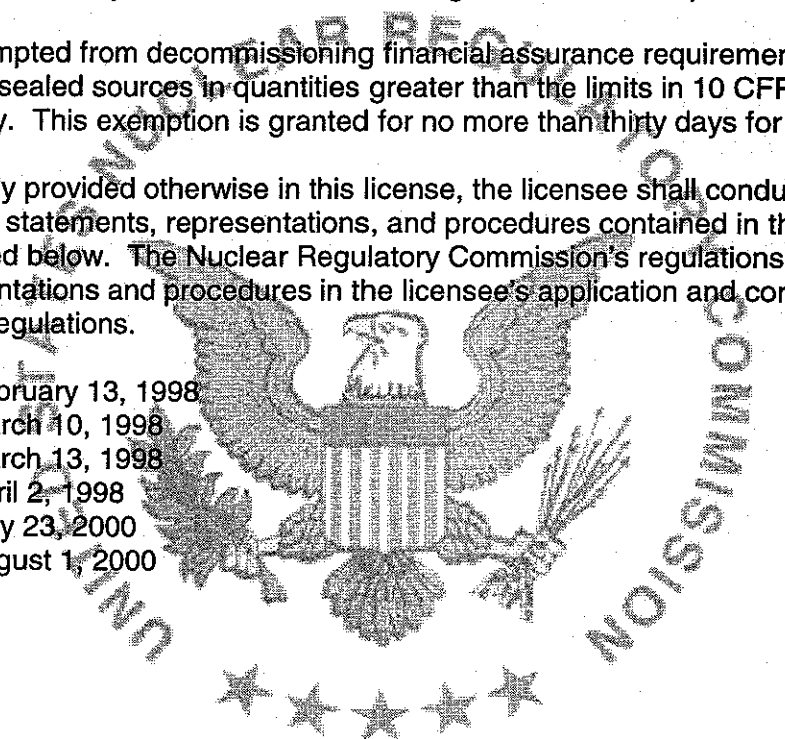
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- E. If abnormal radiation levels or malfunctions of the irradiator are detected at any time, stop using the irradiator, restrict access to the area housing the irradiator, immediately notify the Radiation Safety Officer, and if required by 10 CFR Parts 20, 21 or 30, report to the NRC.
 - F. Not repair or authorize repairs of the irradiator except by the manufacturer or other persons specifically authorized by the Commission or an Agreement State to perform such services.
20. The licensee is exempted from decommissioning financial assurance requirements for possession of licensed material in sealed sources in quantities greater than the limits in 10 CFR 30.35 for the purpose of source changes only. This exemption is granted for no more than thirty days for any one source change.
21. 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 13, 1998
 - B. Letter dated March 10, 1998
 - C. Letter dated March 13, 1998
 - D. Letter dated April 2, 1998
 - E. Letter dated May 23, 2000
 - F. Letter dated August 1, 2000



For the U.S. Nuclear Regulatory Commission

Original signed by John R. McGrath

Date October 28, 2002

By _____

John R. McGrath
Nuclear Materials Safety Branch 2
Division of Nuclear Materials Safety
Region I
King of Prussia, Pennsylvania 19406

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