

**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 1, Parts 30, 31, 32, 33, 34, 35, 36, 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); and to transport such byproduct and source material. 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 US Army Communications-Electronics Command ATTN: DRSEL-SF-H 2. Ft. Monmouth, New Jersey 07703	3. License number	SMM-1900
	4. Expiration date	July 31, 1987
	5. Docket or Reference No.	070-02963
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. Plutonium 239	A. Alpha source sets (Model AN/UDM-6)	A. Not to exceed 23 micrograms per set, Not to exceed 0.0115 gram (500 sets) total

**9. Authorized use**

A. To be used for calibration of instruments and training.

**CONDITIONS**

10. Licensed material may be used at Lexington-Blue Grass Depot Activity (LBDA), Lexington, Kentucky; the US Army Ionizing Radiation Dosimetry Center of the U S Army Measurement Diagnostic Equipment Support Group at LBDA; and at Department of Defense installations/activities throughout the United States where the Nuclear Regulatory Commission maintains jurisdiction.

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## CONDITIONS

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11. The licensee shall comply with the provisions of Title 10, Chapter 1, Code of Federal Regulations, Part 19, "Notices, Instructions and Reports to Workers; Inspections" and Part 20, "Standards for Protection Against Radiation."
12. Licensed material shall be used by, or under the supervision and in the physical presence of, Steven A. Horne, Barry J. Silber, or individuals who have completed the training program described in application dated February 25, 1982.
13.
  - A. Each plutonium alpha source shall be tested for leakage at intervals not to exceed three (3) months. In the absence of a certificate from a transferor indicating that a test has been made within three (3) months prior to the transfer, a sealed source received from another person shall not be put into use until tested.
  - B. The test shall be capable of detecting the presence of 0.005 microcurie of alpha contamination on the test sample. The test sample shall be taken from the source or from appropriate accessible surfaces of the device in which the sealed source is permanently or semipermanently mounted or stored. Records of leak test results shall be kept in units of microcuries and maintained for inspection by the Commission.
  - C. If the test reveals the presence of 0.005 microcurie or more of removable alpha contamination, the licensee shall immediately withdraw the sealed source from use and shall cause it to be decontaminated and repaired by a person appropriately licensed to make such repairs or to be disposed of in accordance with the Commission regulations. Within five (5) days after determining that any source has leaked, the licensee shall file a report with the Division of Fuel Cycle and Material Safety, U. S. Nuclear Regulatory Commission, Washington, D. C. 20555, describing the source, the test results, the extent of contamination, the apparent or suspected cause of source failure, and the corrective action taken. A copy of the report shall be sent to the Director of the nearest NRC Regional Office of Inspection and Enforcement, listed in Appendix D of Title 10, code of Federal Regulations, Part 20.
  - D. The periodic leak test required by this condition does not apply to sealed sources that are stored and not being used. The sources excepted from this test shall be tested for leakage prior to any use or transfer to another person unless they have been leak tested within three (3) months prior to the date of use or transfer.

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14. A physical inventory shall be conducted every six (6) months to account for all alpha sources received and possessed under the license. The records of the inventories shall be maintained for two (2) years from the date of the inventory for inspection by the Commission and shall include the quantities and kinds of special nuclear material, location of alpha sources, and the date of the inventory.
15. The licensee may transport licensed material or deliver licensed material to a carrier for transport in accordance with the provisions of Title 10, Code of Federal Regulations, Part 71, "Packaging of Radioactive Material for Transport and Transportation of Radioactive Material Under Certain Conditions."
16. Except for plutonium contained in a medical device designed for individual human application, no plutonium, regardless of form, shall be delivered to a carrier for shipment by air transport or transported in an aircraft by the licensee except in packages the design of which the NRC has specifically approved for transport of plutonium by air.
17. Except as specifically provided otherwise by this license, the licensee shall possess and use licensed material described in Items 6, 7, and 8 of this license in accordance with statements, representations, and procedures contained in application dated February 25, 1982 attached to letter dated March 31, 1982 and letter dated June 15, 1982. The Nuclear Regulatory Commission's regulations shall govern the licensee's statements in applications or letters, unless the statements are more restrictive than the regulations.

For the U.S. Nuclear Regulatory Commission

\*original signed by Joseph C. Wang\*

By Jan 8/3/82 Material Licensing BranchDivision of Fuel Cycle and  
Material Safety  
Washington, D.C. 20555

AUG 04 1982