

**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 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 import 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		In accordance with application dated July 18, 1980	
1. Department of the Army Walter Reed Army Medical Center		3. License number 08-01738-03 is amended in its entirety to read as follows:	
2. Washington, D. C. 20012		4. Expiration date August 31, 1985	
		5. Docket or Reference No. <u>030-06895</u>	
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. Cobalt 60	A. Sealed sources (AECL Models C-166, C-167 or C-198)	A. No single source to exceed 16,000 curies	
B. Cesium 137	B. Sealed sources (AECL Model C-161 Type 8)	B. 2 sources not to exceed 2,100 curies each Total 4,200 curies	
C. Cobalt 60	C. Sealed sources (AECL Model C-198)	C. No single source to exceed 26,400 curies	
D. Cesium 137	D. Sealed sources (AECL Model C-161 Type 8)	D. 2 sources not to exceed 2,100 curies each Total 4,200 curies	
9. Authorized use			
A. To be used in AECL Gammacell 220 irradiator located in Room E-099, Building 40, WRAIR, Washington, D. C., for medical research and development and radiation dosimetry.			
B. To be used in AECL Gammacell 40 Irradiator located in Room E-099, Building 40, WRAIR, Washington, D. C., for small animal irradiation, medical research, development and radiation dosimetry.			

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Supplementary Sheet

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9. Authorized use continued

- C. To be used in AECL Gammacell 220 Irradiator located in Building 1425, Room AA413, U. S. Army Research Institute of Infectious Diseases, Fort Detrick, Frederick, Maryland, for medical research and development and radiation dosimetry.
- D. To be used in AECL Gammacell 40 Irradiator located in Building 1425, Room AA413, U. S. Army Research Institute of Infectious Diseases, Fort Detrick, Frederick, Maryland, for medical research and development and radiation dosimetry.

CONDITIONS

- 10. 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."
- 11. Licensed material shall be used by, or under the supervision of, individuals designated by the individual approved by the Radiation Control Committee, Walter Reed Army Medical Center.
- 12. A. Each sealed source containing licensed material shall be tested for leakage and/or contamination at intervals not to exceed six months. In the absence of a certificate from a transferor indicating that a test has been made within six 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 0.05 microcurie of contamination on the test sample. The test samples shall be taken 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 0.05 microcurie or more of removable contamination, the licensee shall immediately withdraw the sealed source from use and shall cause it to be decontaminated and repaired or to be disposed of in accordance with Commission regulations. A report shall be filed within 5 days of the test with the U. S. Nuclear Regulatory Commission, Region I, Office of Inspection and Enforcement, 631 Park Avenue, King of Prussia, Pennsylvania 19406, describing the equipment involved, the test results, and the corrective action taken.
D. Tests for leakage and/or contamination shall be performed by the individuals approved by the Radiation Control Committee, Walter Reed Army Medical Center or by other persons specifically authorized by the Commission or an Agreement State to perform such services.

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(continued)

- 13. Written instructions contained in application dated July 18, 1980 shall be followed and a copy of these instructions shall be made available to each individual using or having responsibility for use of licensed material. Any changes these instructions shall have the prior approval of the Material Licensing Branch, Division of Fuel Cycle and Material Safety, U.S. Nuclear Regulatory Commission, Washington, D. C. 20555.
- 14. This license does not authorize repairs or alterations of the irradiator involving removal of shielding or access to the licensed material except as provided otherwise by specific condition of this license. Removal, replacement and disposal of sealed sources shall be performed only by the AECL or by other persons specifically authorized by the Commission or an Agreement State to perform such activities.
- 15. 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 July 18, 1980. 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.

SEP 08 1980

Date _____

For the U. S. Nuclear Regulatory Commission

JOSEPH

by Material Licensing Branch

Division of Fuel Cycle and
Material Safety
Washington, D.C. 20555

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