

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 I, Parts 30, 31, 32, 33, 34, 35, 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> <ol style="list-style-type: none"> General Electric Company Valley Forge Space Center P.O. Box 8555 Philadelphia, Pennsylvania 19101 	<p>In accordance with letter dated February 14, 1985 3. License number 37-02006-09 is amended in its entirety to read as follows:</p>
<ol style="list-style-type: none"> Byproduct, source, and/or special nuclear material <ol style="list-style-type: none"> Cobalt 60 Cobalt 60 Chemical and/or physical form <ol style="list-style-type: none"> Sealed Sources (AECL Model C-166 or C-167) Sealed Sources (AECL Model C-166 or C-167) Maximum amount that licensee may possess at any one time under this license <ol style="list-style-type: none"> Not to exceed (b)(2)High curies Not to exceed (b)(2)High curies 	<ol style="list-style-type: none"> Expiration date September 30, 1987 Docket or Reference No. 030-12894

9. Authorized use

- For use in AECL Model Gammacell 220 irradiator for irradiation of materials
- For use in AECL Model Gammacell 220 irradiator for irradiation of materials.

CONDITIONS

- Licensed material shall be used only at the licensee's facilities at 780 Third Avenue, Valley Forge Space Center, CC&F Building, Room 8128A, King of Prussia, Pennsylvania.
- 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."
- Licensed material shall be used by, or under the supervision of, individuals designated by the Ionizing Radiation Advisory Group, T. P. Handley, Chairman.
 - The Radiation Protection Officer for the activities authorized by this license is Alfred W. Kobylinski.
- Sealed sources containing licensed material shall not be opened.

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**MATERIALS LICENSE
SUPPLEMENTARY SHEET**

License number

37-02006-09

Docket or Reference number

030-12894

Amendment No. 04

(continued)

CONDITIONS

14. 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, 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 licensee or by other persons specifically authorized by the Commission or an Agreement State to perform such services.
15. The procedures contained in AECL's instruction manual for the "Gammacell 220" device shall be followed and a copy of this manual shall be made available to each person using or having responsibility for the use of licensed material.
16. 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 device manufacturer or by other persons specifically authorized by the Commission or an Agreement State to perform such activities.
17. After installation of the irradiator and Cesium 137 or Cobalt 60 source and prior to initiation of the irradiation program, a radiation survey shall be conducted to determine radiation levels around, above, and below the irradiator with the source in the irradiate position and with the source in the shielded position. A detailed report in duplicate of the results of the surveys shall be sent to the U. S. Nuclear Regulatory Commission, Region I, Nuclear Materials Safety Section, 631 Park Avenue, King of Prussia, Pennsylvania 19406, not later than thirty (30) days following installation of the source.

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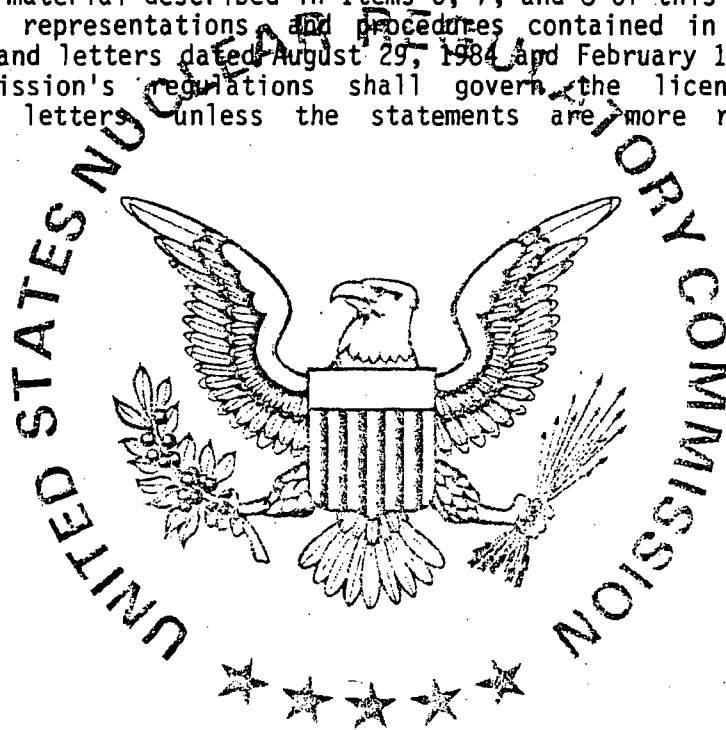
030-12894

Amendment No. 04

(continued)

CONDITIONS

- 18. The licensee shall conduct a physical inventory every six (6) months to account for all sealed 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 licensed material, location of sealed sources and the date of the inventory.
- 19. 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 received August 16, 1982 and letters dated August 29, 1984 and February 14, 1985. 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:

Jenny M. Johansen

By

Nuclear Materials Safety and
Safeguards Branch, Region I
King of Prussia, Pennsylvania 19406

Date MAR 05 1985