

MATERIALS LICENSE

Amendment No. 02

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.

Licensee		In accordance with letter dated August 22, 1984
1. University of Minnesota W-172 Boynton Health Services		3. License number 22-00187-52 is amended in its entirety to read as follows:
2. 410 Church Street S.E. Minneapolis, MN 55455		4. Expiration date April 30, 1986
		5. Docket or Reference No.
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 source (AECL Model C-146 or C-151)	A. One source not to exceed 9,000 curies
9. Authorized Use		
A. For use in an AECL Eldorado 8 teletherapy unit for non-human research, excluding explosives and highly flammable materials.		

CONDITIONS

10. Licensed material shall be used only at the University of Minnesota Hospital, Therapeutic Radiology Department, Room B-146 Mayo, 420 Delaware Street, S.E., Minneapolis, Minnesota.
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. A. Licensed material shall be used by, or under the supervision of, Faiz M. Khan, Ph.D., Barry L. Werner, Ph.D., Firmin C. Deibel, Jr., Ph.D. or Bruce J. Gerbi, M.S.
- B. At least one individual named in Condition No. 12.A. shall be physically present at the authorized place of use whenever licensed material is being used.
- C. The Radiation Protection Officer for the activities authorized by this license is Jerome W. Staiger.
13. 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.

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- 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 five (5) days of the test with the U. S. Nuclear Regulatory Commission, Region III, 799 Roosevelt Road, Glen Ellyn, Illinois 60137, 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.
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 on the irradiator by the licensee or by other persons specifically authorized by the Commission or an Agreement State to perform such activities.
15. After installation of the irradiator 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 of the results of the surveys shall be sent to the Material Licensing Section, 799 Roosevelt Road, Glen Ellyn, Illinois 60137 not later than thirty (30) days following installation of the source.
16. The following shall be performed only by persons specifically authorized by the Commission or an Agreement State to perform such services:
- A. Installation, relocation, or removal of teletherapy units containing sources.
- B. Source exchange.
- C. Any maintenance or repair operations on a teletherapy unit involving work on the source drawer, the shutter, or other mechanism that could expose the source, reduce the shielding around the source, or compromise the safety of the unit and result in increased radiation levels.

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17. The licensee shall assure that the door to the irradiator is locked whenever the irradiator is in operation.
18. 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 letters dated July 11, 1980 (with attached application received July 21, 1980) and March 17, 1981, submitted with regards to License Number 22-00218-30; and letters dated August 20, 1981, August 22, 1984, November 28, 1984 and June 19, 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

By George M. McCann

Materials Licensing Section, Region III

Date August 16, 1985

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