

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.

Licensee	
1. Elmer J. Kozora, M.D. 27620 Farmington Road 2. Suite 107 Farmington Hills, MI 48018	3. License number 21-24583-01
	4. Expiration date October 31, 1990
	5. Docket or Reference No. 030-28948
6. Byproduct, source, and/or special nuclear material	7. Chemical and/or physical form
A. Gadolinium-153	A. Sealed sources (Lunar Radiation Corp. GD Series; Gulf Nuclear Model GD-1; New England Nuclear Model NER 431 or Amersham Model GDC.CY1)
B. Iodine-125	B. Sealed sources (AECL Model C-324 or C-235 in Model C-236 source holder or Amersham Corp. Model IMC.P2 contained in a Lunar Radiation Corp. source holder)
8. Maximum amount that licensee may possess at any one time under this license	
	A. 2 sources not to exceed 1.5 curies each
	B. 2 sources not to exceed 300 millicuries each

9. Authorized Use

- A. For use in Lunar Radiation Corp. Model DP3 "Spine Scanner" for analysis of human bone mineral content.
- B. For use in Lunar Radiation Corp. Model SP2 "Forearm Scanner" for analysis of human bone mineral content.

CONDITIONS

10. Licensed material shall be used only at 27620 Farmington Road, Suite 107, Farmington Hills, Michigan.
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."

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**MATERIALS LICENSE
SUPPLEMENTARY SHEET**

License number

21-24583-01

Docket or Reference number

030-28948

12. Licensed material shall be used by, or under the supervision of, Elmer J. Kozora, M.D.
13. A. Each sealed source containing licensed material, other than Hydrogen 3, with a half-life greater than thirty days and in any form other than gas 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 0.005 microcurie of radioactive material on the test sample. The test sample shall be taken from the sealed source or from the surfaces of the device in which the sealed source is permanently mounted or stored on which one might expect contamination to accumulate. 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 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. Sealed sources containing licensed material shall not be opened or removed from their respective source holders by the licensee.
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 October 2, 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

Date

OCT 30 1985

Original Signed

By George M. McCann

Materials Licensing Section, Region III

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