

## 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.

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| Licensee   |  |  |
| 1. George S. Wineburgh Associates, Ltd.                                    | 3. License number  | 37-20865-01  |
| 2. 7800 Castor Avenue<br>Philadelphia, Pennsylvania 19152                  | 4. Expiration date   | July 31, 1990  |
|  | 5. Docket or<br>Reference No.  | 030-21276  |
| 6. Byproduct, source, and/or<br>special nuclear material                   | 7. Chemical and/or physical<br>form  | 8. Maximum amount that licensee<br>may possess at any one time<br>under this license |
| A. Gadolinium 153  | A. Sealed source (Gulf Nuclear,<br>Inc., Model GD-1                          | A. Three sources not<br>to exceed 1500 milli-<br>curies per source                   |
| B. Iodine 125  | B. Sealed source (AECL Models<br>C-234 or C-324 or Amersham<br>Model IMC.P2) | B. Three sources not<br>to exceed 300 milli-<br>curies per source                    |
| 9. Authorized use  |  |  |
| A. For use in Lunar Radiation Corporation Model DP3 bone mineral analyzer. |  |  |
| B. For use in Lunar Radiation Corporation Model SP2 bone mineral analyzer. |  |  |

## CONDITIONS

10. Licensed material shall be used only at the licensee's facilities, 7800 Castor Avenue, Philadelphia, Pennsylvania and 205 Newton Road, Suite East 2nd floor, Warminster, Pennsylvania.
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:

|                           |  |
|---------------------------|--|
| George S. Wineburgh, M.D. | Iodine 125 and Gadolinium 153 sealed sources for<br>diagnosing bone maladies |
| James Udell, M.D.         | Iodine 125 and Gadolinium 153 sealed sources for<br>diagnosing bone maladies |
13. Licensed material shall be used in accordance with the provisions of Section 35.14(b)(c)(e) and (f) of Title 10, Code of Federal Regulations.

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**MATERIALS LICENSE  
SUPPLEMENTARY SHEET**

License number

37-20865-01

Docket or Reference number

030-21276

(continued)

**CONDITIONS**

14. A. (1) 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.
- (2) Notwithstanding the periodic leak test required by this condition, any licensed sealed source is exempt from such leak tests when the source contains 100 microcuries or less of beta and/or gamma emitting material or 10 microcuries or less of alpha emitting material.
- (3) 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 six months prior to the date of use or transfer.
- 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 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. 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 May 31, 1985 and letter dated June 28, 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:

Laurence F. Friedman, Ph.D.

By

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

Date

JUL 16 1985