

MATERIALS LICENSE
SUPPLEMENTARY SHEET

License number 12-13027-02

Docket or Reference number 030-07533

Amendment No. 18

Northwest Community Hospital
800 West Central Road
Arlington Heights, IL 60005

In accordance with letter dated January 16, 1986, License Number 12-13027-02 is amended as follows:

Items 6., 7., 8., and 9. are amended to add:

- | | | |
|---|---|--|
| 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 |
| H. Gadolinium-153 | H. Sealed sources (Lunar Radiation Corp. Model GD Series) | H. 2 sources not to exceed 1.5 curies each |

9. Authorized Use

- H. One source to be used in a Lunar Radiation Corp. Model DP3 Spine Scanner for determination of bone mineral content in humans. One source to be stored in its shipping container for source replacement purposes.

Conditions 12. and 20. are amended to read:

12. Licensed material listed in Item 6 above is authorized for use by, or under the supervision of, the following individual(s) for the materials and uses indicated:

Jerome A. Roy, M.D.	A11
Lee A. Malmed, M.D.	A11
Constantine S. Soter, M.D.	A11
Bhogaraju S. Devi, M.D.	A11
Harold W. Gianopoulos, M.D.	A11, except phosphorus-32 and gold-198 for therapy
Daniel B. Crane, M.D.	Groups I, II and III Xenon-133 Gadolinium-153
Paul A. Bilow, M.D.	Groups I, II and III Xenon-133 <u>In vitro</u> studies Gadolinium-153

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S. Chandra Mouli, M.D.

Groups I, II and III
Xenon-133
In vitro studies
Gadolinium-153

Fazlur R. Khan, M.D.

Groups IV, V and VI
Gadolinium-153

20. Except as specifically provided otherwise in this license, the licensee shall conduct its program in accordance with the statements, representations, and procedures contained in the documents including any enclosures, listed below. The Nuclear Regulatory Commission's regulations shall govern unless the statements, representations and procedures in the licensee's application and correspondence are more restrictive than the regulations.

- A. Application dated June 11, 1981;
- B. Letters dated July 27, 1982 and January 16, 1986; and
- C. ALARA Program dated September 5, 1980.

Condition 21. is added:

21. A. (1) The source(s) specified in Item(s) 7.H. shall be tested for leakage and/or contamination at intervals not to exceed 6 months. Any source received from another person which is not accompanied by a certificate indicating that a test was performed within 6 months before the transfer 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.
- B. Any source in storage and not being used need not be tested. When the source is removed from storage for use or transfer to another persons, it shall be tested before use or transfer.
- C. The test shall be capable of detecting the presence of 0.005 microcurie of radioactive material on the test sample. If the test reveals the presence of 0.005 microcurie or more to removable contamination, the source shall be removed from service and decontaminated, repaired, or disposed of in accordance with Commission regulations. A report shall be filed within 5 days of the date the leak test result is known with the U.S. Nuclear Regulatory Commission, Region III, 799 Roosevelt Road, Glen Ellyn, Illinois 60137, ATTN: Chief, Nuclear Materials Safety and Safeguards Branch. The report shall specify the source involved, the test results, and corrective action taken. Records of leak test results shall be kept in units of microcuries and shall be maintained for inspection by the Commission. Records may be disposed of following Commission inspection.

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- D. Tests for leakage and/or contamination shall be performed by the licensee or by other persons specifically licensed by the Commission or an Agreement State to perform such services.



For the U.S. Nuclear Regulatory Commission

Date FEB 5 - 1986

Original Signed
By Evelyn R. Matson
Materials Licensing Section, Region III

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