

MATERIALS LICENSE
SUPPLEMENTARY SHEET

License number

-22-13859-01

Docket or Reference number

030-02257

Amendment No. 20

Metropolitan Medical Center
900 South Eighth Street
Minneapolis, MN 55404

In accordance with letter dated June 7, 1985, License Number 22-13859-01 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

L. Iodine-125

L. Sealed sources
(AECL Model C-324 in
a Lunar Radiation Corp.
brass source holder)

L. 400 millicuries
(2 sources not
to exceed 200
millicuries each)

M. Gadolinium-153

M. Sealed sources
(Lunar Radiation Corp.
Model Lunar GD Series)

M. 2 curies
(2 sources not
to exceed 1
curie each)

9. Authorized Use

- L. One source to be used as a component of Lunar Radiation Corporation Model SP2 Forearm Scanner for determining human bone mineral content. One source in its shipping container to be in possession of the licensee as necessary for replacement in the scanner.
- M. One source to be used as a component of Lunar Radiation Corporation Model DP3 Spine/Femur Scanner for determining human bone mineral content. One source in its shipping container to be in possession of the licensee as necessary for replacement in the scanner.

Conditions 12. and 23. 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:

M. Azad, M.D.

Groups I, II, III, IV, V and V
Xenon-133
In vitro studies

David Moody, M.D.

Groups I, II, III, IV and V
In vitro studies
Xenon-133

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Quentin Anderson, M.D.

Groups I, II, III, IV and V

In vitro studies

Xenon-133

Iodine-125 for bone mineral analysis

Gadolinium-153 for bone mineral
analysis

Stefan Laxdal, M.D.

Groups I, II, III, IV and V

In vitro studies

Xenon-133

A.O. Rholl, M.D.

Groups I and II

Xenon-133

Iodine-131 for treatment of
hyperthyroidism, cardiac
dysfunction and thyroid carcinoma

William J. Boardman, M.D.

Iodine-131 for treatment of
hyperthyroidism, cardiac
dysfunction and thyroid carcinoma

Iodine-125 for bone mineral analysis
Gadolinium-153 for bone mineral
analysis

Gary Hemphill, Ph.D.

In vitro studies

David G. Smith, M.D.

Group VI

Henry Bates, Ph.D.

In vitro studies

Joseph Milo Meland, M.D.

Groups I, II and III

Iodine-131 for treatment of
hyperthyroidism, cardiac
dysfunction and thyroid carcinoma

Xenon-133

Iodine-125 for bone mineral analysis
Gadolinium-153 for bone mineral
analysis

23. 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 applications dated October 31, 1980 (with attachments dated September 1981) and June 7, 1985; letters dated September 25, 1978 (with attachments), September 25, 1981, March 9, 1982, and August 19, 1985; "Procedures for Handling Certain Brachytherapy Sources obtained from Metropolitan Medical Center as part of the shared services program" dated September 13, 1983 (contained in a letter from Hennepin County Medical Center, dated September 16, 1983); and ALARA Program dated October 29, 1980. 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.

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Conditions 26. is added:

26. Sealed sources specified in Subitems 6.L. and 6.M. shall not be opened or removed from their respective source holders by the licensee.



For the U.S. Nuclear Regulatory Commission

Date

OCT 18 1985

Original Signed

By B. J. Holt

Materials Licensing Section, Region III

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