

**MATERIALS LICENSE
SUPPLEMENTARY SHEET**

License number

21-12275-02

Docket or Reference number

030-02115

Amendment No. 42

Borgess Hospital
1521 Gull Road
Kalamazoo, MI 49001

In accordance with letter dated May 8, 1985, License Number 21-12275-02 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

K. Gadolinium-153

K. Sealed sources
(Gulf Nuclear model
GD-1 contained in an
NRC approved source
holder)

K. 3000 millicuries
(2 sources not
to exceed 1500
millicuries each)

L. Iodine-125

L. Sealed sources
(AECL Models Nos.
C-235 or C-324 contained
in a C-236 source holder
or Amersham Model No.
IMC.P2 in an NRC approved
source holder)

L. 600 millicuries
(2 sources not
to exceed 300
millicuries each)

9. Authorized Use

K. For use in Lunar Radiation Corp. Model DP3 "Spine Scanner" for analysis of human bone mineral content.

L. For use in Lunar Radiation corp. Model SP2 "Forearm Scanner" for analysis of human bone mineral content.

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:

Norman A. Gremel, M.D.

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

W. S. Gladstone, M.D.

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

James A. Green, III, M.D.

Iodine-125 bone mineral analyzer
In vitro studies

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REQ LIC30
21-12275-02 PDR

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JUN 28 1985

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John W. Copenhaver, M.D.

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

J. Alex Gardner, M.D.

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

Leonard A. Brunette, M.D.

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

Arthur Gregory Laurell, M.D.

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

James R. Dolan, M.D.

Groups I, II, III, IV, V and VI
Xenon-133

Geoffrey A. Wardwell, M.D.

Groups I, II, III and VI
Xenon-133

N. Warn Courtney, M.D.

Groups I, II and III
Xenon-133
Iodine-131 for therapy
In vitro studies

Richard R. McConnell, M.D.

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

Jose L. Campos, M.D.

Group VI

Gary L. Wismer, M.D.

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

Linda Magness, M.D.

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

E. Enrique Leguizamon, M.D.

Groups II and III, limited to
cardiac imaging and studies of
cardiac function

Thomas McCormick, M.D.

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

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John E. Francis, M.D.

Groups II and III, limited to
cardiac imaging and studies of
cardiac function

Kenzo Kawamura, M.D.

Groups II and III, limited to
cardiac imaging and studies of
cardiac function

Dennis P. Burke, M.D.

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

William B. Campbell, M.D.

Groups II and III, limited to
cardiac imaging and studies of
cardiac function

Umakant S. Doctor, M.D.

Groups II and III, limited to
cardiac imaging and studies of
cardiac function

Yoo Sup Hwang, M.D.

Group VI

Khalid Altaf Mian, M.D.

Groups II and III, limited to
cardiac imaging and studies of
cardiac function

Evalt Ayerdi, M.D.

Groups II and III, limited to
cardiac imaging and studies of
cardiac function

Stephen L. Peck, M.D.

Groups II and III, limited to
cardiac imaging and studies of
cardiac function

Robert J. LaPenna, M.D.

Groups II and III, limited to
cardiac imaging and studies of
cardiac function

Benjamin A. Perry, M.D.

Groups II and III, limited to
cardiac imaging and studies of
cardiac function

M. Blanche T. Lim, M.D.

Gadolinium-153 and Iodine-125
contained in bone mineral
analyzers

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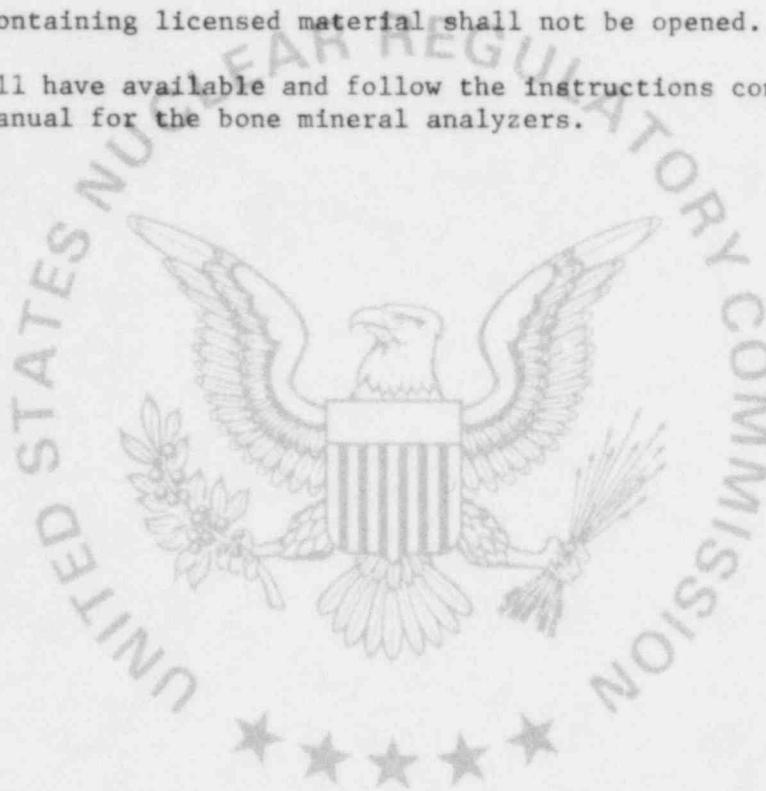
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20. Except as specifically provided otherwise by this license, the licensee shall possess and use licensed material described in Items 6, 7, and 8 of this license in accordance with statements, representations, and procedures contained in application dated March 30, 1984; letters dated April 19, 1979, February 26, 1985 and May 8, 1985; and Model ALARA Program dated March 23, 1984. 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.

Conditions 21. and 22. are added:

21. Sealed sources containing licensed material shall not be opened.
22. The licensee shall have available and follow the instructions contained in the manufacturer's manual for the bone mineral analyzers.



For the U.S. Nuclear Regulatory Commission

Date June 28, 1985

Original Signed
By George M. McCann
Materials Licensing Section, Region III

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