

MATERIALS LICENSE
SUPPLEMENTARY SHEET

License number

14-02938-07

Docket or Reference number

030-01687

Amendment No. 23

University of Iowa
Radiation Protection Office
311 Grand Avenue
Iowa City, IA 52240

In accordance with letter dated May 1, 1985, License Number 14-02938-07 is amended as follows:

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

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

A. (1) Any byproduct material
between Atomic Numbers
3 to 83, inclusive

A. (1) Any

A. (1) A total of
10 curies with
a limit of 1
curie per
nuclide except
as listed below:

(2) Technetium-99m

(2) Any

(2) 3 curies

(3) Molybdenum-99

(3) Any

(3) 3 curies

(4) Xenon-133

(4) Gas or gas in solution
that is the subject
of an active (i.e., not
withdrawn or terminated)
"New Drug Application"
(NDA) approved by FDA or
an active (i.e., not
withdrawn, terminated
or on "clinical hold")
"Notice of Claimed
Investigational Exemption
for a New Drug" (IND)
that has been accepted
by FDA

(4) 7 curies

B. Hydrogen-3

B. Any

B. 30 curies

C. Polonium-210

C. Any

C. 1.5 curies

D. Americium-241

D. Any

D. 250 millicuries

E. Cesium-137

E. Sealed source
(U.S. Nuclear Corp.
Model 375)

E. 20 curies

8510020405 850725
REG3 LIC30
14-02938-07
PDR

1/1 COPY 2
mc30

MATERIALS LICENSE
SUPPLEMENTARY SHEET

License number

14-02938-07

Docket or Reference number

030-01687

Amendment No. 23

6. Byproduct, source,
and/or special nuclear
material7. Chemical and/or
physical form8. Maximum amount that
licensee may possess
at any one time
under this license

F. Strontium-90

F. Sealed source
(U.S. Nuclear Corp.
Model 325)

F. 1 curie

G. Uranium (Depleted in
Uranium-235)

G. Plated Metal

G. 50 kilograms

H. Uranium (Depleted in
Uranium-235)

H. Plated Metal

H. 185 kilograms

I. Uranium (Natural)

I. Aluminum encapsulated
metal rods

I. 8.5 pounds

J. Any byproduct material
listed in Group VI of
Schedule A, Section
35.100 of 10 CFR 35J. Any sealed source
listed in Group VI of
Schedule A, Section
35.100 of 10 CFR 35J. 5.5 curies
total for all
sources authorized
in Subitem 6.J

K. Gadolinium-153

K. Sealed sources
(Gulf Nuclear Model
GD-1 contained in a
Lunar Radiation Corp.
lead-lined brass source
holder)K. 3 curies
(2 sources not
to exceed 1.5
curies each)

9. Authorized Use

- A. (1) through A. (4), B., C. and D. Research and development as defined in Section 30.4(q), Code of Federal Regulations, Part 30. Medical research, diagnosis, and therapy.
- E. To be used in U.S. Nuclear Corporation Model CCSD calibrator for instrument calibration
- F. Calibration source.
- G. For use as counterweights in storage only.
- H. For use as shielding in a medical linear accelerator.
- I. For storage only and/or preparation for transfer or disposal.
- J. Any procedure listed in Group VI of Schedule A, Section 35.100 of Title 10, Code of Federal Regulations.
- K. One source to be used in a 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.

COPY

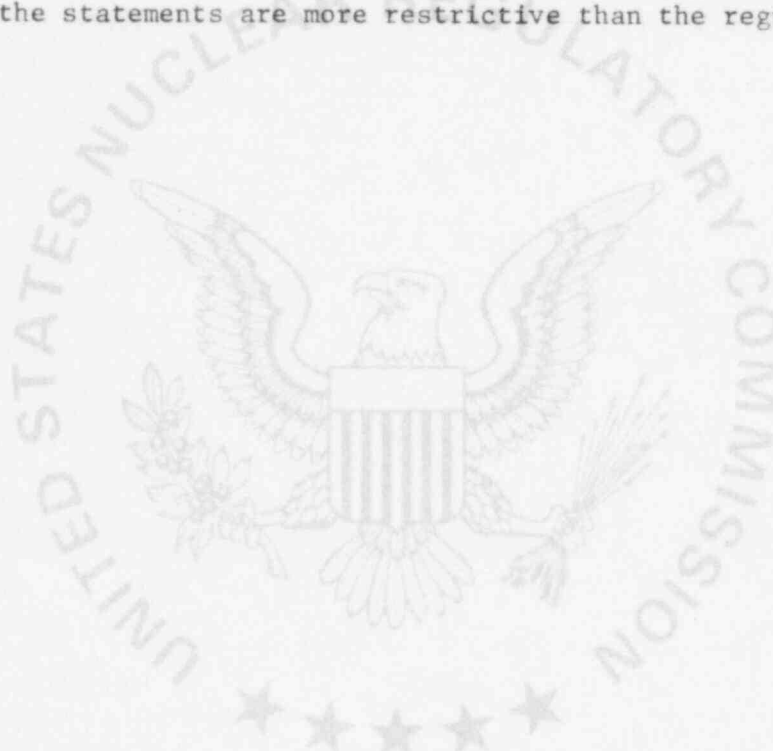
MATERIALS LICENSE
SUPPLEMENTARY SHEET

License number 14-02938-07
Docket or Reference number 030-01687

Amendment No. 23

Condition 26. is amended to read:

26. 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 March 29, 1978, March 27, 1979, and August 8, 1980; and letters dated December 10, 1980, June 5, 1981, June 19, 1981, July 29, 1982, August 17, 1982, February 10, 1983, February 25, 1983, March 24, 1983, March 28, 1984, May 1, 1985 and July 8, 1985; and letter received November 20, 1981 (except section entitled "General Radiation Safety Guidelines for Inpatient Areas"). 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 B.J. Holt
Materials Licensing Section, Region III

Date July 25, 1985

COPY