

MATERIALS LICENSE

Amendment No. 56

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.

Licensee

- 1. Department of the Army
Walter Reed Army Medical Center (WRAMC)
- 2. Washington, D.C. 20307-5001

3. License number 08-01738-02 is amended in its entirety to read as follows:

4. Expiration date April 30, 1993

5. Docket or Reference No. 030-01317

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. Any byproduct material with atomic numbers 1-83

A. Any

A. 400 millicuries of each radionuclide with a total possession limit of 26 curies

- B. Iodine 131
- C. Xenon 133
- D. Krypton 85
- E. Gold 198
- F. Phosphorus 32
- G. Carbon 14
- H. Iodine 125
- I. Iridium 192
- J. Chromium 51
- K. Sulfur 35
- L. Hydrogen 3
- M. Molybdenum 99

- B. Any
- C. Any
- D. Any
- E. Any
- F. Any
- G. Any
- H. Any
- I. Any
- J. Any
- K. Any
- L. Any
- M. Molybdenum 99/
Technetium 99m
Generators

- B. 2 curies
- C. 2 curies
- D. 1 curie
- E. 1 curie
- F. 2 curies
- G. 2 curies
- H. 1 curie
- I. 1 curie
- J. 750 millicuries
- K. 1 curie
- L. 5 curies
- M. 23 curies

- N. Technetium 99m
- O. Strontium 90
- P. Cesium 137

- N. Any
- O. Sealed sources
- P. Sealed sources

- N. 23 curies
- O. 500 millicuries
- P. []

- Q. Gadolinium 153
- R. Iodine 125

- Q. Sealed sources
- R. Sealed sources (Norland Inst. Co., Model 178A591A)

- Q. []
- R. 400 millicuries

- S. Iodine 125

- S. Sealed sources (3M Company seeds)
- T. Sealed sources (AECL Models C235 or C324, or Amersham Corp Model IMC.P2)

- S. 500 millicuries
- T. 4 sources, not to exceed 300 millicuries each

- U. Cesium 137
- V. Cobalt 60

- U. Sealed sources
- V. Sealed sources

- U. []
- V. []

Information in this record was deleted in accordance with the Freedom of Information Act, exemptions 2 and 3. FOIA 2006-0238

EX2

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MATERIALS LICENSE
SUPPLEMENTARY SHEET

License number

08-01738-02

Docket or Reference number

030-01317

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(Items 6., 7. & 8. continued)

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
W. Americium 241	W. Any	W. 100 microcuries
X. Americium 241	X. Sealed source	X. []
Y. Nickel 63	Y. Sealed sources and foils	Y. 1 curie
Z. Iodine 129	Z. Sealed sources	Z. 1 curie
AA. Thorium	AA. Any	AA. 5 kilograms
BB. Uranium	BB. Any	BB. 50 kilograms
CC. Uranium deleted in Uranium-235	CC. Plated Metal	CC. 400 kilograms
DD. Americium 241	DD. Sealed sources	DD. []
EE. Cesium 137	EE. Sealed source	EE. []
FF. Cesium 137	FF. [] sources	FF. []

9. Authorized use

- A. through T. Medical research, diagnosis, and therapy; research and development as defined in 10 CFR 30.4(q).
- U. through Z. Research and development as defined in 10 CFR 30.4(q); teaching.
- CC. Shielding
- DD. Standards and reference sources.
- EE. In an [] for calibration of instruments.
- FF. Instrument calibration.

CONDITIONS

10. Location of use:

Walter Reed Army Medical Center, Washington, D. C.; WRAMC Forest Glen Section and Annex, Silver Spring, Maryland; U.S. Army Medical Research Institute for Infectious Diseases, Fort Detrick, Frederick, Maryland; Andrew Rader Army Clinic, Fort Myer, Virginia; Walter Reed Army Institute of Research Animal Holding Facility, Fort Meade, Maryland; U.S. Army Medical Laboratory, WRAMC Department of Pathology, Fort Meade, Maryland; and U.S. Army Institute of Dental Research Facility, Fort Meade, Maryland; Rickman Building, 13 Taft Court, Rockville, Maryland.

11. Radiation Safety Officer: Major Gerald M. Connock

12. A. Licensed material shall be used by, or under the supervision of, individuals designated by the licensee's Radiation Safety Committee, Col. James E. Hastings, MC, Chairman.

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SUPPLEMENTARY SHEET**

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(12. continued)

CONDITIONS

- B. The use of licensed material in or on humans shall be by a physician as defined in Section 35.2 of 10 CFR Part 35.
- C. Physicians designated to use licensed material in or on humans shall meet the training criteria established in 10 CFR Part 35, Subpart J.
- 13. Experimental animals administered licensed materials or their products shall not be used for human consumption.
- 14. In lieu of using the conventional radiation caution colors (magenta or purple on yellow background) as provided in Section 20.203(a)(1), of 10 CFR Part 20, the licensee is hereby authorized to label detector cells and cell baths, containing licensed material and used in gas chromatography devices, with conspicuously etched or stamped radiation caution symbols without a color requirement.
- 15. Detector cells containing titanium tritide foil shall only be used in conjunction with a properly operating temperature control mechanism which prevents foil temperatures from exceeding 225 degrees Centigrade.
- 16. Detector cells containing scandium tritide foil shall only be used in conjunction with a properly operating temperature control mechanism which prevents foil temperatures from exceeding 325 degrees Centigrade.
- 17. Notwithstanding the requirements of 10 CFR 35.49 (a) and (b), the licensee may use for medical use any byproduct material or reagent kit for which the Food and Drug Administration has accepted a "Notice of Claimed Investigational Exemption for a New Drug" (IND).
- 18. The licensee may transport licensed material in accordance with the provisions of 10 CFR Part 71, "Packaging and Transportation of Radioactive Material".
- 19. If only a single radionuclide specified in NUREG 0767, is possessed, the possession limit is the quantity specified in Schedule of Limiting Possession Limits, NUREG-0767. If two or more radionuclides are possessed, the possession limit for each is determined as follows: the sum of the quotients of the quantities possessed divided by the quantities of those radionuclides specified in the Schedule of Limiting Possession Limits, NUREG-0767 shall not exceed unity.

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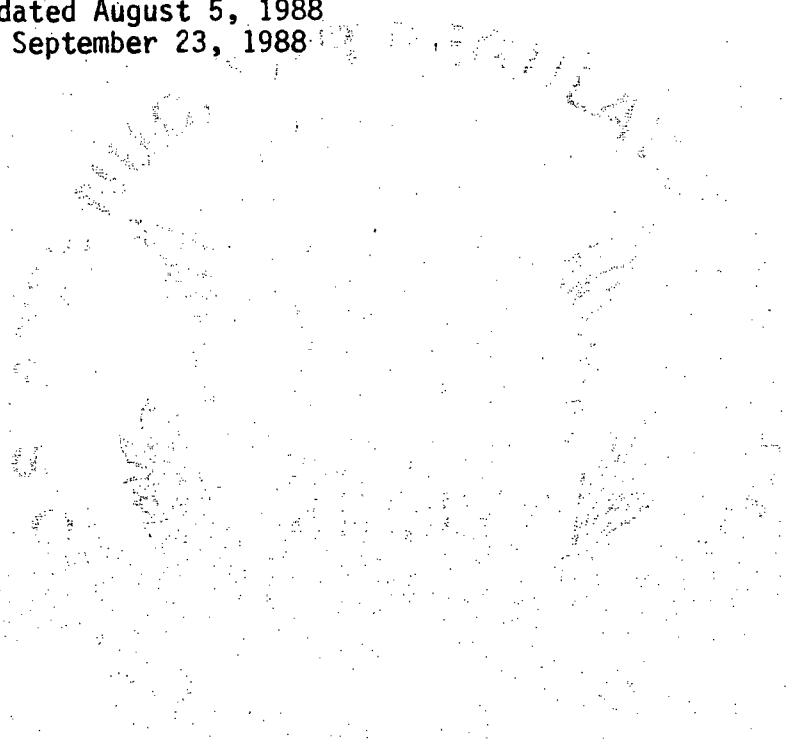
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CONDITIONS

20. This license is based on the licensee's statements and representations listed below:

- A. Application dated July 18, 1979
- B. Letter dated January 13, 1984
- C. Letter dated May 8, 1987
- D. Letter dated March 16, 1988
- E. Letter dated March 28, 1988
- F. Application dated August 5, 1988
- G. Letter dated September 23, 1988



Date 07 OCT 1988

For the U.S. Nuclear Regulatory Commission

Original Signed By:
By John E. Glenn
Nuclear Materials Safety Branch
Region I
King of Prussia, Pennsylvania 19406