

## MATERIALS LICENSE

CORRECTED COPY *ORC*

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, 36, 39, 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	In accordance with application dated August 28, 1996,	
1. Department of Veterans Affairs Medical Center	3. License Number 04-00689-07 is amended in its entirety to read as follows:	
2. 5901 East Seventh Street Long Beach, California 90822	4. Expiration Date April 30, 2002	
	5. Docket or Reference No. 030-01215	
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 identified in 10 CFR 35.100	A. Any radiopharmaceutical identified in 10 CFR 35.100	A. As needed
B. Any byproduct material identified in 10 CFR 35.200	B. Any radiopharmaceutical identified in 10 CFR 35.200	B. As needed
C. Any byproduct material identified in 10 CFR 35.300	C. Any radiopharmaceutical identified in 10 CFR 35.300	C. 3.3 curies (no single container to exceed 300 millicuries)
D. Any byproduct material identified in 10 CFR 35.400	D. Any brachytherapy source identified in 10 CFR 35.400	D. 5 curies

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E. Any byproduct material  
with Atomic Nos. 3  
through 83, with half-  
lives of less than 120  
days

E. Any

E. 100 millicuries  
of each  
byproduct  
material with  
Atomic Nos. 3  
through 83 and  
half-lives of  
less than 120  
days

F. Carbon 14

F. Any

F. 200 millicuries

G. Hydrogen 3

G. Any

G. 500 millicuries

H. Iodine 125

H. Any

H. 200 millicuries

I. Cesium 137

I. Sealed sources  
contained in a  
J.L. Shepherd and  
Associates Model  
28-6A Calibrator

I. 1 curie

J. Americium 241

J. Sealed sources  
(Isotope Products  
Model PH1 241-1)

J. 2 millicuries

K. Gadolinium 153

K. Sealed sources  
(North American  
Scientific, Inc.  
Model 3601) in ADAC  
Laboratories line  
source housings  
Models 2146-3436 and  
2146-3440

K. 300 millicuries  
total. Not to  
exceed 200  
millicuries per  
source housing

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9. Authorized use

- A. Medical use described in 10 CFR 35.100
- B. Medical use described in 10 CFR 35.200
- C. Medical use described in 10 CFR 35.300
- D. Medical use described in 10 CFR 35.400
- E. through H. Laboratory research. Research in animals. Instrument calibration.
- I. Instrument calibration
- J. FOR STORAGE ONLY
- K. For use in Vantage Nonuniform Attenuation Correction System installed on nuclear medicine imaging equipment.

CONDITIONS

- 10. Licensed material shall be used only at the licensee's facilities located at 5901 East 7th Street, Long Beach, California.
- 11. The Radiation Safety Officer for this license is Steven D. Mills.
- 12.
  - A. The use of licensed material in or on humans shall be by a physician as defined in 10 CFR 35.2.
  - B. Physicians designated to use licensed material in or on humans shall meet the training criteria established in 10 CFR Part 35 Subpart J and shall be designated by the licensee's Radiation Safety Committee.
  - C. Licensed material for other than human use shall be used by or under the supervision of individuals designated by the Radiation Safety Committee.
- 13.
  - A. Sealed sources cells and detector cells shall be tested for leakage and/or contamination at intervals not to exceed 6 months or at such other intervals as specified by the certificate of registration referred to in 10 CFR 32.210.
  - B. In the absence of a certificate from a transferor indicating that a leak test has been made within 6 months prior to the transfer, a sealed source or detector cell received from another person shall not be put into use until tested.
  - C. Sealed sources need not be leak tested if:
    - (i) they contain only hydrogen-3; or
    - (ii) they contain only a radioactive gas; or

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- (iii) the half-life of the isotope is 30 days or less; or
  - (iv) they contain not more than 100 microcuries of beta and/or gamma emitting material or not more than 10 microcuries of alpha emitting material; or
  - (v) they are not designed to emit alpha particles, are in storage, and are not being used. However, when they are removed from storage for use or transferred to another person, and have not been tested within the required leak test interval, they shall be tested before use or transfer. No sealed source or detector cell shall be stored for a period of more than 10 years without being tested for leakage and/or contamination.
- D. The leak 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 of removable contamination, a report shall be filed with the U.S. Nuclear Regulatory Commission in accordance with 10 CFR 30.50(b)(2), and the source shall be removed immediately from service and decontaminated, repaired, or disposed of in accordance with Commission regulations. The report shall be filed within 5 days of the date the leak test result is known with the U.S. Nuclear Regulatory Commission, Region IV, ATTN: Director, Division of Nuclear Materials Safety, 611 Ryan Plaza Drive, Suite 400, Arlington, Texas 76011. The report shall specify the source involved, the test results, and corrective action taken.
- E. 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.
14. The licensee shall conduct a physical inventory every 3 months to account for all sources and/or devices received and possessed pursuant to 10 CFR 35.57, 10 CFR 35.400 and Item 6.K of this license, and every 6 months for all other sources and/or devices.
15. The licensee is authorized to hold radioactive material with a physical half-life of less than 90 days for decay-in-storage before disposal in ordinary trash provided:
- A. Radioactive waste to be disposed of in this manner shall be held for decay a minimum of 10 half-lives.
  - B. Before disposal as ordinary trash, byproduct material shall be surveyed at the container surface with the appropriate survey meter set on its most sensitive scale and with no interposed shielding to determine that its radioactivity cannot be distinguished from background. All radiation labels shall be removed or obliterated.

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- C. A record of each disposal permitted under this License Condition shall be retained for three years. The record must include the date of disposal, the date on which the byproduct material was placed in storage, the radionuclides disposed, the survey instrument used, the background dose rate, the dose rate measured at the surface of each waste container, and the name of the individual who performed the disposal.
16. Experimental animals, or the products from experimental animals, that have been administered licensed materials shall not be used for human consumption.
17. In addition to the possession limits in Item 8, the licensee shall further restrict the possession of licensed material to quantities below the minimum limit specified in 10 CFR 30.35(d) for establishing decommissioning financial assurance.
18. 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, except for minor changes in the medical use radiation safety procedures as provided in 10 CFR 35.31. 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 August 28, 1996  
B. Letter received January 6, 1997  
C. Letter received April 23, 1997

FOR THE U.S. NUCLEAR REGULATORY COMMISSION

Date MAY 23 1997

By

*James S. Montgomery*

Materials Branch  
Region IV, WCFO  
Walnut Creek, California 94596





UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
REGION IV

Walnut Creek Field Office  
1450 Maria Lane  
Walnut Creek, California 94596-5368

MAY 23 1997

Department of Veterans Affairs  
Medical Center  
ATTN: Steven D. Mills  
Radiation Safety Officer  
5901 East Seventh Street  
Long Beach, California 90822

Gentlemen:

Enclosed is corrected copy to License No. 04-00689-07, Amendment No. 42, dated April 30, 1997, changing the expiration date in accordance with 10 CFR 35.18. You should review this document for correctness and completeness.

If you have any questions concerning this action, please feel free to contact me at 510/975-0249.

Sincerely,

James L. Montgomery  
Senior Health Physicist  
Materials Branch

Enclosure:

As stated

cc:

F. Herbig, Director, V.A.

E. Liedholdt, Western Region Program Manager, V.A.

Department of Veterans Affairs  
Medical Center - Long Beach

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bcc:  
Docket File  
WCFO Inspection File  
LFARB, T-9 E10  
State of California (License Only)

DOCUMENT NAME: G:\Correct.LB

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