

JAN 11 1991

Docket No.: 030-01213  
License No.: 04-00181-04

Veterans Administration Medical Center  
Wadsworth and Brentwood Divisions  
Wilshire and Sawtelle Boulevards  
Los Angeles, California 90073

Attention: Mr. William K. Anderson  
Director

Gentlemen:

This is in reference to your letter dated December 12, 1990. Amendment 91 was issued on December 10, 1990. That amendment incorporated the changes described in your earlier correspondence of August 22, 1990. A copy is enclosed for your reference.

Sincerely,

*/s/ Beth A. Riedlinger*

Beth A. Riedlinger  
Senior Health Physicist (Licensing)  
Nuclear Materials and  
Fuel Fabrication Branch

Enclosures: Letter dated 12/10/90  
Amendment No. 91 to License No. 04-00181-04

bcc w/enclosures:      *bcc w/o enclosures;*  
Inspection File      *M. Smith*  
B. Faulkenberry  
J. Martin

REGION V *BTR*  
BARiedlinger  
1/11/91

REQUEST COPY  
YES /  NO

SEND TO PDR  
YES /  NO

9101300024 910111  
REG5 LIC30  
MATLSLICENSING PDR

DESIGNATED ORIGINAL

Certified By *J. Larcu*

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license docket  
folder

DEC 10 1990

Docket No. : 030-01213  
License No.: 04-00181-04  
Control No.: 71246

Veterans Administration Medical Center  
Wadsworth and Brentwood Divisions  
Wilshire and Sawtelle Boulevards  
Los Angeles, California 90073

Attention: Mr. William K. Anderson  
Director

Gentlemen:

Enclosed is the NRC license amendment which you requested.

Please review the enclosed document carefully and be sure that you understand all conditions. If there are any errors or questions, please notify us so that we can provide appropriate corrections and answers.

Any future correspondence relating to your license should specifically reference your license and docket numbers to expedite your inquiry.

Sincerely,

Beth A. Riedlinger  
Senior Health Physicist (Licensing)  
Nuclear Materials and  
Fuel Fabrication Branch

Enclosure: Attachment A  
Amendment No. 91 to License No. 04-00181-04

MATERIALS LICENSE

Amendment No. 91

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. Veterans Administration Medical Center  
Wadsworth and Brentwood Divisions
2. Wilshire and Sawtelle Boulevards  
Los Angeles, California 90073

In accordance with letter  
dated July 20, 1990

3. License number 04-00181-04 is amended in  
its entirety to read as follows

4. Expiration date August 31, 1991

5. Docket or  
Reference No. 030-01213

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, A. Any  
Atomic Numbers 3 to 83  
inclusive with half-lives  
less than 120 days, except  
as specified in Subitems  
6.B. through 6.F. below.

A. 100 millicuries of  
each byproduct  
material, Atomic  
Numbers 3 to 83,  
inclusive, with half-  
lives less than 120  
days, except as  
specified in Subitems  
8.B. through 8.F.  
below. Total  
possession limit  
for materials  
specified in Subitem  
6.A. not to exceed  
10 curies.

B. Molybdenum 99 B. Any  
C. Technetium 99m C. Any  
D. Iodine 131 D. Any  
E. Iodine 125 E. Any

B. 1.0 curie  
C. 2.0 curies  
D. 500 millicuries  
E. 100 millicuries

MATERIALS LICENSE  
SUPPLEMENTARY SHEET

License number

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Docket or Reference number

030-01213

Amendment No. 91

(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
F. Xenon-133	F. 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 and 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	F. 3.0 curies
G. Calcium 45	G. Any	G. 20 millicuries
L. Carbon 14	H. Any	H. 100 millicuries
I. Chlorine 36	I. Any	I. 10 millicuries
J. Nickel 63	J. Any	J. 20 millicuries
K. Selenium 75	K. Any	K. 10 millicuries
L. Thallium 204	L. Any	L. 50 millicuries
M. Hydrogen 3	M. Any	M. 500 millicuries
N. Any byproduct material listed in Group VI of Schedule A, Section 35.100 of 10 CFR 35	N. Any sealed source listed in Group VI of Schedule A, Section 35.100 of 10 CFR 35	N. 5.0 curies total for all sources authorized in Subitem 6.I
D. Hydrogen 3	D. Foils in detector cells	O. 550 millicuries
P. Nickel 63	P. Foils or plated sources in detector cells	P. 100 millicuries
Q. Strontium 90	Q. Sealed source (Radiochemical Center Model SIC.7)	Q. 10 millicuries
.. Cesium 137	R. Sealed source (New England Nuclear Model NER-401H)	R. 100 millicuries



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030-01213

Amendment No. 91

- S. Gadolinium 153
- S. Sealed sources (Lunar Radiation Corp. GD series)
- S. Not to exceed 1.5 curies per source 10 curies total.

9. Authorized use

- A. through N. Medical research, diagnosis and therapy including research in laboratory animals. Laboratory research. Research studies in humans, as defined in 21 CFR Section 361.1 and as approved by a Food and Drug Administration Radioactive Drug Research Committee under the provisions of 21 CFR Part 361.
- D. and P. For use in gas chromatographs for sample analysis.
- Q. For use in Nuclear Enterprises Dosimeter Calibrator Type 2503 for calibration of thimble ionization chambers.
- R. Standard for instrument calibration.
- S. For use in Lunar Radiation Corp. Model DP3 spine scanners for bone mineral analysis.

CONDITIONS

- 10. Licensed material shall be used only at the Veteran's Administration Medical Center, Wilshire and Sawtelle Boulevards, Los Angeles, California 90073.
- 11. Radiation Safety Officer: Stuart G. Mirell, Ph.D.
- 12. A. Licensed material shall be used by, or under the supervision of, individuals designated by the Radioisotope Safety Committee, William H. Bland, M.D., Chairman.
- B. The use of licensed material or on humans shall be by a physician as defined in 10 CFR 35.3(b).
- C. Physicians designated to use licensed material in or on humans shall meet the training criteria established in Appendix A of Regulatory Guide 10.8 (Revision 1), dated October 1980, and as revised December 2, 1982 (47 FR 54376).
- 13. Patients containing iodine 131 for the treatment of thyroid carcinoma (or patients containing therapeutic quantities of gold 198) shall remain hospitalized until the residual activity is 30 millicuries or less.
- 14. Patients containing cobalt 60, cesium 137 or iridium 192 implants shall remain hospitalized until a source count and surveys made with an appropriate radiation detection instrument indicate that all implants have been removed. The results of these surveys shall be recorded and maintained for inspection by the Commission for five (5) years from the time the implants are removed.

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License number

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030-01213

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CONDITIONS

(continued)

15. The licensee is authorized to hold radioactive material with a physical half-life of less than 65 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 ten (10) half-lives.
  - B. Prior to disposal as normal waste, radioactive waste shall be surveyed to determine that its radioactivity cannot be distinguished from background. All radiation labels shall be removed or obliterated.
  - C. Generator columns shall be segregated so that they may be monitored separately to ensure decay to background levels prior to disposal.
16. A. (1) Each sealed source acquired from another person and containing licensed material, other than hydrogen 3, with a half-life greater than thirty days and in any form other than gas shall be tested for contamination and/or leakage before use. In the absence of a certificate from a transferor indicating that a test has been made within six months before the transfer, a sealed source received from another person shall not be put into use until tested.
- (2) Notwithstanding the periodic leak test required by this condition, any licensed sealed source is exempt from such leak tests when the source contains 100 microcuries or less of beta and/or gamma emitting materials or 10 microcuries or less of alpha emitting material.
- (3) Except for alpha sources, the periodic leak test required by this condition does not apply to sealed sources that are stored and not being used. The sources excepted from this test shall be tested for leakage before any use or transfer to another person unless they have been leak tested within six months before the date of use or transfer.
- B. Each sealed source fabricated by the licensee shall be inspected and tested for construction defects, leakage, and contamination prior to use or transfer as a sealed source. If the inspection or test reveals any construction defects or 0.005 microcurie or greater of contamination, the source shall not be used or transferred as a sealed source until it has been repaired, decontaminated and retested.
  - C. Each sealed source containing licensed material, other than hydrogen 3, with a half-life greater than thirty days and in any form other than gas shall be tested for leakage and/or contamination at intervals not to exceed six months except that each source designed for the purpose of emitting alpha particles shall be tested at intervals not to exceed 3 months.

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Amendment No. 91

CONDITIONS

(continued)

- D. The test shall be capable of detecting the presence of 0.005 microcurie of radioactive material on the test sample. The test sample shall be taken from the sealed source or from the surfaces of the device in which the sealed source is permanently or semipermanently mounted or stored on which one might expect contamination to accumulate. Records of leak test results shall be kept in units of microcuries and maintained for inspection by the Commission. Records may be disposed of following Commission inspection.
- E. If the test required by Subsection A. or C. of this condition reveals the presence of 0.005 microcurie or more of removable contamination, the licensee shall immediately withdraw the sealed source from use and shall cause it to be decontaminated and repaired or to be disposed of in accordance with Commission regulations. A report shall be filed within 5 days of the date the leak test result is known with the U. S. Nuclear Regulatory Commission, Region V; Nuclear Materials and Fuel Fabrication Branch; 1450 Maria Lane, Suite 210; Walnut Creek, California 94596, describing the equipment involved, the test results, and the corrective action taken.
17. Sealed sources containing licensed material shall not be opened.
18. In lieu of using the conventional radiation caution colors (magenta or purple on yellow background) as provided in 10 CFR 20.203(a)(1), 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.
19. A. 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.
- B. 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.
20. The licensee may use the Lineator device for doing linearity tests of its dose calibrator provided it follows the procedures in the Atomic Products Corporation Lineator Instructions Manual dated June 20, 1983.
21. Pursuant to Title 10, Chapter 1, Code of Federal Regulations, Part 40 "Domestic Licensing of Source Material", the licensee is authorized to possess, use, transfer, and import up to 999 kilograms of depleted uranium contained as shielding material in molybdenum-99/technetium-99m generators.
22. The licensee may transport licensed material in accordance with the provisions of 10 CFR Part 71, "Packaging and Transportation of Radioactive Material".



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SUPPLEMENTARY SHEET

License number

04-00181-04

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030-01213

Amendment No. 91

CONDITIONS

23. The licensee shall maintain records of information related to decommissioning at the address specified in Condition 10 above per the provisions of 10 CFR 30.35(g) until this license is terminated by the Commission.
24. 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. 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 April 3, 1984
  - B. Letter dated September 5, 1984
  - C. Letter dated January 23, 1986
  - D. Letter dated June 13, 1986
  - E. Letter dated July 23, 1986
  - F. Letter dated August 11, 1986
  - G. Letter dated September 19, 1986
  - H. Letter dated November 6, 1986
  - I. Letter dated June 12, 1987
  - J. Letter dated April 4, 1988
  - K. Letter dated July 20, 1990
  - L. Letter dated August 6, 1990
  - M. Letter dated August 22, 1990

FOR THE U.S. NUCLEAR REGULATORY COMMISSION

Date DEC 10 1990

By Beth A. Riedlinger  
Beth A. Riedlinger  
Sr. Health Physicist (Licensing)  
Nuclear Materials and  
Fuel Fabrication Branch  
Region V





Department of  
Veterans Affairs

Medical Center

RECEIVED  
DEC 13 1990

11-27-90 11:10:16

Wadsworth and  
Brentwood Divisions  
Wilshire and  
Sawtelle Boulevards  
Los Angeles CA 90073

04-00181-04

DEC 12 1990

In Reply Refer to: 691/W115

Regional Director, Western Region (10BA6/115)  
Veterans Health Services & Research Administration  
Department of Veterans Affairs  
810 Vermont Ave., NW  
Washington, DC 20420

Attn: Helen Malaskiewicz

SUBJ: Decommissioning/License Amendment  
Reply to NRC letter of 11-27-90

1. Please forward to the NRC in Walnut Creek, California, the original and two copies of the above-referenced subject. A pre-addressed envelope is provided for your convenience. One set of letters is for your files.
2. We understand that Ms. Riedlinger stated that no reply was necessary to the subject letter since our ammendment had been found. Nevertheless, since one miscommunication has occurred, it is essential to prevent another one.
3. Your assistance is greatly appreciated.

WILLIAM K. ANDERSON  
Director  
VAMC West Los Angeles

Helen Malaskiewicz  
for Milton D. Gross, M.D.

1/3/90

Enclosures  
Orig & 3 cc

Director, Nuclear Medicine 846 (115)  
Veterans Health Services and  
Research Administration  
Washington, DC 20420

Medical Center

Wadsworth and  
Brentwood Divisions  
Wilshire and  
Sawtelle Boulevards  
Los Angeles CA 90073



Department of  
Veterans Affairs

DEC 12 1990

In Reply Refer to: 691/W115

Docket No : 030-01213  
License No: 04-00181-04  
Control No: 571246

U. S. Nuclear Regulatory Commission  
Region V  
1450 Maria Lane, Suite 210  
Walnut Creek, CA 94596

Attention: Ms. Beth A. Riedlinger

SUBJ: Reply to NRC letter of Nov. 27, 1990

1. This is to confirm your telephone conversation of Dec. 4, 1990 with John Basinski, ARSO, Nuclear Medicine Ultrasound Service, stating that no further action is necessary as a result of the subject letter.
2. Our Decommissioning - Statement of Intent letter of July 20, 1990 was disapproved by you in the telephone conversation of July 31, 1990. As a result of that conversation, a Request for Amendment, August 22, 1990, was drawn up incorporating the changes you had suggested. Unfortunately our amendment was misfiled by your staff as new business rather than an answer to your previous objections.
3. We hope that our Amendment of August 22, 1990 can be promptly approved and that this will result in the acceptance of our Decommissioning letter of July 20, 1990.

WILLIAM K. ANDERSON  
Director  
VAMC West Los Angeles

*S Helen Malaskevic  
for Milton D. Gross, M.D.*

*1/3/90*

Enclosure  
NRC letter of 11-27-90

Director, Nuclear Medicine Svc (115)  
Veterans Health Services and  
Research Administration  
Washington, DC 20420



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
REGION V

1450 MARIA LANE, SUITE 210  
WALNUT CREEK, CALIFORNIA 94596

NOV 27 1990

Docket No. : 030-01213  
License No.: 04-00181-04  
Control No.: 571246

Veterans Administration Medical Center  
Wadsworth and Brentwood Divisions  
Wilshire and Sawtelle Boulevards  
Los Angeles, California 90073

Attention: Mr. John Basinski  
Radiation Protection Officer

Gentlemen:

This is in reference to your request dated July 20, 1990 for amendment of your byproduct material license and to our telephone conversation dated July 31, 1990. In order to complete our review, we need the following additional information:

Either specify that materials with Atomic Numbers 3-83 will have half-lives of less than 120 days and list the exceptions or restructure your license in some other way so that the \$750,000 Statement of Intent is adequate. If neither choice is acceptable, submit a Decommissioning Funding Plan.

We will continue the review of your amendment request upon receipt of this information. Please reply in duplicate, and refer to Mail Control No. 571246.

You are hereby notified that unless within thirty (30) days from the date of this letter we receive the additional information requested, we will consider your request as having been abandoned by you. This may result in enforcement action against you.

Sincerely,

A handwritten signature in cursive script that reads "Beth A. Riedlinger".

Beth A. Riedlinger  
Senior Health Physicist (Licensing)  
Nuclear Materials and  
Fuel Fabrication Branch