NRC FORM 37
(7-94)

U.S. NUCLEAR REGULATORY COMMISSION

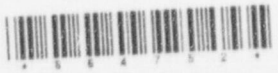
MATERIALS LICENSE

Amendment No. 30

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	
1. Department of Veterans Affairs Bronx Medical Center	In accordance with the letter dated June 16, 1997,
2. 130 West Kingsbridge Road Bronx, New York 10468	3. License Number 31-00636-07 is amended in its entirety to read as follows:
	4. Expiration Date January 31, 2004
	5. Docket or Reference No. 030-17020

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. As needed
D. Any byproduct material identified in 10 CFR 35.400	D. Any brachytherapy source identified in 10 CFR 35.400	D. As needed
E. Any byproduct material identified in 10 CFR 31.11	E. Prepackaged Kits	E. As needed
F. Cobalt 58	F. Any	F. 20 microcuries
G. Iron 59	G. Any	G. 80 microcuries
H. Nickel 63	H. Any	H. 100 microcuries
I. Rubidium 86	I. Any	I. 20 millicuries
J. Hydrogen 3	J. 3-^{3}H-glucose	J. 10 millicuries
K. Hydrogen 3	K. Any	K. 20 curies
L. Carbon 14	L. Any	L. 1 curie
M. Phosphorus 32	M. Any	M. 100 millicuries
N. Phosphorus 33	N. Any	N. 100 millicuries
O. Sulfur 35	O. Any	O. 100 millicuries
P. Potassium 42	P. Any	P. 10 millicuries
Q. Calcium 45	Q. Any	Q. 50 millicuries
R. Scandium 46	R. Any	R. 10 millicuries
S. Calcium 47 030105	S. Any	S. 2 millicuries
T. Chromium 51	T. Any	T. 10 millicuries
U. Strontium 85	U. Any	U. 10 millicuries
V. Technetium 99	V. Any	V. 200 millicuries
W. Iodine 125	W. Any	W. 200 millicuries
X. Iodine 131	X. Any	X. 400 millicuries



MATERIALS LICENSE
SUPPLEMENTARY SHEET

License number
31-00636-07

Docket or Reference number
030-17020

Amendment No. 30

W. Cesium 137	W. Any	W. 100 millicuries
Z. Cerium 141	Z. Any	Z. 10 millicuries
AA. Ytterbium 169	AA. Any	AA. 10 millicuries
BB. Nickel 63	BB. Plated sources or foils	BB. 20 millicuries

9. Authorized use

A. Any uptake, dilution and excretion procedure approved in 10 CFR 35.100.
B. Any imaging and localization procedure approved in 10 CFR 35.200.
C. Any radiopharmaceutical therapy procedure approved in 10 CFR 35.300.
D. Any brachytherapy procedure approved in 10 CFR 35.400.
E. through I. In vitro studies.
J. In vivo studies.
K. through AA. Research and development as defined in 10 CFR 30.4; animal studies.
BB. In electron capture detector cells which are distributed under a specific license issued by the U.S. Nuclear Regulatory Commission or any Agreement State.

CONDITIONS

10. Licensed material may be used only at the licensee's facilities located at 130 West Kingsbridge Road, Bronx, New York.

11. The Radiation Safety Officer for this license is Steven Kastin, M.D.

12. Licensed material listed in Item 6 above is only authorized for use by, or under the supervision of, the following individuals for the materials and uses indicated:

Authorized Users	Material and Use
Zev W. Chayes, M.D.	35.100; 35.200; 35.300 In vitro studies
Hee Kyung Song, M.D.	35.400
Victor Herbert, M.D.	35.100 In vitro studies
Joseph T. Charalel, M.D.	35.100; 35.200; 35.300 In vitro studies
Steven J. Kastin, M.D.	35.100; 35.200; 35.300 In vitro studies
Herbert Rose, M.D.	In vitro studies Hydrogen 3, Carbon 14, Phosphorus 32, Phosphorus 33 for non-human use

MATERIALS LICENSE
SUPPLEMENTARY SHEET

License number: 31-00636-07
Docket or Reference number: 030-17020
Amendment No. 30

Fiorenzo Paronetto, M.D.	Subitems 6.K. through 6.AA. for non-human use
Charles S. Lieber, M.D.	In vitro studies Hydrogen 3, Carbon 14, Phosphorus 32, Phosphorus 33, Sulfur 35, Potassium 42, Calcium 45, Scandium 46 Chromium 51, Technetium 99, Iodine 125, Iodine 131, Cesium 137, Cerium 141, and Ytterbium 169 for non-human use
D. M. Kaji, M.D.	In vitro studies Subitems 6.K. through 6.AA. for non-human use
Steven M. Gabriel, Ph.D.	Subitems 6.K. through 6.AA. for non-human use
Thomas Kahn, M.D.	Hydrogen 3, Potassium 42, and Rubidium 86 for non-human use
John Eng, M.D.	Subitems 6.K. through 6.AA. for non-human use
William A. Bauman, M.D.	Hydrogen 3 for In vivo studies Nickel 63 as authorized in 9.BB. Subitems 6.K. through 6.AA. for non-human use
Mark A. Korsten, M.D.	Hydrogen 3, Carbon 14, Sulfur 35, Potassium 42, Calcium 45, Chromium 51, Technetium 99, Iodine 125, Cerium 141, and Ytterbium 169 for non-human use
Victor P. Terronova, D.M.D., Ph.D.	Subitems 6.K. through 6.AA. for non-human use
Spencer Shaw, M.D.	Hydrogen 3, Carbon 14, Sulfur 35, Potassium 42, Calcium 45, Chromium 51, Technetium 99, Iodine 125, Cerium 141, and Ytterbium 169 for non-human use
Rachel Yehuda, Ph.D.	Hydrogen 3, Carbon 14, Sulfur 35, Potassium 42, Calcium 45, Chromium 51, Technetium 99, Iodine 125, Cerium 141, and Ytterbium 169 for non-human use
Ezra Levy, Ph.D.	Subitems 6.K. through 6.AA. for non-human use
Ray M. Price, Ph.D.	Subitems 6.K. through 6.AA. for non-human use
Robert S. Greenstein, M.D.	Subitems 6.K. through 6.AA. for non-human use
Vahram Haroutunian, Ph.D.	Subitems 6.K. through 6.AA. for non-human use
Nighat Kahn, Ph.D.	Subitems 6.K. through 6.AA. for non-human use
Calvin Eng, M.D.	Subitems 6.K. through 6.AA. for non-human use

MATERIALS LICENSE
SUPPLEMENTARY SHEET

License number: 31-00636-07
Docket or Reference number: 030-17020
Amendment No. 30

Jeffrey H. Silverstein, M.D.	Subitems 6.K. through 6.AA. for non-human use
Thomas M. Tagliente, M.D., Ph.D.	Subitems 6.K. through 6.AA. for non-human use
Steven Atlas, M.D.	Subitems 6.K. through 6.AA. for non-human use
Charles Mobbs, Ph.D.	Subitems 6.K. through 6.AA. for non-human use

13. 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), 40.36(b), and 70.25(d) for establishing financial assurance for decommissioning.

14. The licensee shall not use licensed material in or on human beings except as provided otherwise by specific condition of this license.

15. Experimental animals, or the products from experimental animals, that have been administered licensed materials shall not be used for human consumption.

16. The licensee shall not use licensed material in field applications where activity is released except as provided otherwise by specific condition of this license.

17. A. Sealed sources and detector cells containing licensed material shall be tested for leakage and/or contamination at intervals not to exceed six months or at such other intervals as are specified by the certificate of registration referred to in 10 CFR 32.210, not to exceed three years.

B. Notwithstanding Paragraph A of this Condition, sealed sources designed to emit alpha particles shall be tested for leakage and/or contamination at intervals not to exceed three months.

C. In the absence of a certificate from a transferor indicating that a leak test has been made within six months prior to the transfer, a sealed source or detector cell received from another person shall not be put into use until tested.

D. Each sealed source fabricated by the licensee shall be inspected and tested for construction defects, leakage, and contamination prior to any use or transfer as a sealed source.

E. Sealed sources and detector cells need not be leak tested if:

(i) they contain only hydrogen-3; or

(ii) they contain only a radioactive gas; or

(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 transfer 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.

F. The 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 and the source or detector cell shall be removed immediately from service and decontaminated, repaired, or disposed of in accordance with Commission regulations. The report shall be filed within five days of the date the leak test result is known with the U.S. Nuclear Regulatory Commission, Region I, ATTN: Chief, Nuclear Materials Safety Branch, 475 Allendale Road, King of Prussia, Pennsylvania 19406. The report shall specify the source or detector cell involved, the test results, and corrective action taken.

G. The licensee is authorized to collect leak test samples for analysis by the licensee. Alternatively, tests for leakage and/or contamination may be performed by persons specifically licensed by the Commission or an Agreement State to perform such services.

18. The licensee shall conduct a physical inventory every six months to account for all sealed sources and devices containing licensed material received and possessed under the license.

19. Sealed sources or detector cells containing licensed material shall not be opened or sources removed from source holders by the licensee.

20. The licensee shall not acquire licensed material in a sealed source or device unless the source or device has been registered with the U.S. Nuclear Regulatory Commission pursuant to 10 CFR 32.210 or equivalent regulations of an Agreement State.

21. Maintenance, repair, cleaning, replacement, and disposal of foils contained in detector cells shall be performed only by the device manufacturer or other persons specifically authorized by the Commission or an Agreement State to perform such services.

22. The licensee is authorized to transport licensed material in accordance with the provisions of 10 CFR 71, "Packaging and Transportation of Radioactive Material."

MATERIALS LICENSE
SUPPLEMENTARY SHEET

License number: 31-00636-07
Docket or Reference number: 030-17020
Amendment No. 30

23. 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. Waste to be disposed of in this manner shall be held for decay a minimum of ten half-lives.

B. Before disposal as ordinary trash, the waste shall be surveyed at the container surface with the appropriate survey instrument 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.

C. A record of each such 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.

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, except for minor changes in the medical use radiation safety procedures as provided in 10 CFR 35.31. The U.S. 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 October 29, 1993
B. Letter dated December 2, 1993

For the U.S. Nuclear Regulatory Commission

JUN 19 1997
Date

Original Signed By:
Michelle Beardsley
By

Nuclear Materials Safety Branch
Region I
King of Prussia, Pennsylvania 19406

JUN 19 1997

Maryann Musumeci
Medical Center Director
Department of Veterans Affairs Medical Center
130 West Kingsbridge Road
Bronx, NY 10468

Dear Ms. Musumeci:

This refers to your license amendment request. Enclosed with this letter is the amended license. Please note that as part of this amendment, in accordance with 10 CFR 30.36, effective February 15, 1996, the expiration date of your license has been extended by a period of five years. Your new expiration date is stated in Item 4 of the license.

Please review the enclosed document carefully and be sure that you understand and fully implement all the conditions incorporated into the amended license. If there are any errors or questions, please notify the U.S. Nuclear Regulatory Commission, Region I Office, Licensing Assistance Team, (610) 337-5093 or 5239, so that we can provide appropriate corrections and answers.

Thank you for your cooperation.

Sincerely,

Original Signed By:
Michelle Beardsley

Michelle R. Beardsley
Division of Nuclear Materials Safety

License No. 31-00636-07
Docket No. 030-17020
Control No. 124676

Enclosure:
Amendment No. 30

cc: Francis K. Herbig
Health Physics Programs (115HP)
Department of Veterans Affairs
915 North Grand Blvd.
St. Louis, MO 63106

OFFICIAL RECORD COPY ML 10

DOCUMENT NAME: R:\WPS\MLTR\L3100636.07

To receive a copy of this document, indicate in the box: "C" = Copy w/o attach/encl "E" = Copy w/ attach/encl "N" = No copy

OFFICE	DNMS/RI	N	DNMS/RI					
NAME	Beardsley							
DATE	06/19/97		06/ /97		06/ /97		06/ /97	

OFFICIAL RECORD COPY

030-17020

DEPARTMENT OF VETERANS AFFAIRS
Bronx Veterans Affairs Medical Center
130 West Kingsbridge Road
Bronx, New York 10468

June 16, 1997

526/00

Nuclear Regulatory Commission
Licensing Assistance Team - Region 1
475 Allendale Road
King of Prussia, PA 19406-1415

Re: Materials License # 31-00636-07

To whom it may concern:

This is to request an amendment to the above materials license. Specifically, our Radiation Safety Officer, Thomas J. Bauer, has resigned. We would therefore like to temporarily reinstate our former Radiation Safety Officer, Steven Kastin, MD, until such time as a permanent replacement for Mr. Bauer can be recruited. Dr. Kastin is a Nuclear Medicine physician and is certified by the American Board of Nuclear Medicine (ref 10CFR §35.900(a)(3) – see attachment).

If there are any questions, please feel free to contact us at (718) 584-9000 ext 6359.

Thank you.

Sincerely,

Maryann Musumeci
Medical Center Director

enclosure

124676

OFFICIAL RECORD COPY ML 10

JUN 16 1997

DEPARTMENT OF VETERANS AFFAIRS
Medical Center
St Louis MO 63125

June 16, 1997

In Reply Refer To:

U.S. Nuclear Regulatory Commission
Region I
475 Allendale Rd.
King of Prussia, PA 19406-1415

SUBJECT: NRC License No. 31-00636-07

The enclosed correspondence from the Bronx, New York VA Medical Center has been received and is forwarded to your office for processing. If there are questions, please contact the facility.

Please provide a copy of any correspondence relative to licensing actions for this Medical Center to:

Department of Veterans Affairs
Health Physics Programs (115HP)
915 North Grand Blvd.
St. Louis, MO 63106

Sincerely,

Cindy Bukowsky

for Francis K. Herbig
Health Physics Programs

124676

The American Board of Nuclear Medicine

Incorporated 1971

Certifies that

Steven Jay Kastin

has met the requirements of this Board and is qualified
during the period of 1992 through 2002 to practice as a Specialist
in all aspects of Clinical and Laboratory

Nuclear Medicine

including but not limited to Radiobioassay, Nuclear Imaging,
In Vivo Measurements & Therapy with Unsealed Radionuclides

R Edward Coleman, M.D.
Chairman

Peter I Eichmeier M.D.
Secretary

05785
Number

35

BETWEEN:

License Fee Management Branch, ARM
and
Regional Licensing Sections

(FOR LFMS USE)
INFORMATION FROM LTS

Program Code: 02120
Status Code: 0
Fee Category: 5X 7C
Exp. Date: 20040131
Fee Comments: _____
Decom Fin Assur Reqd: Y

LICENSE FEE TRANSMITTAL

A. REGION

1. APPLICATION ATTACHED
   Applicant/Licensee: V. A., DEPARTMENT OF
   Received Date: 970616
   Docket No: 3017020
   Control No.: 124676
   License No.: 31-00636-07
   Action Type: Amendment

2. FEE ATTACHED
   Amount: ___/_____
   Check No.: ___/_____

3. COMMENTS

Signed Brown, R. J.
Date 6/16/97

B. LICENSE FEE MANAGEMENT BRANCH (Check when milestone 03 is entered /__/)

1. Fee Category and Amount: _____

2. Correct Fee Paid. Application may be processed for:
   Amendment _____
   Renewal _____
   License _____

3. OTHER _____
   _____

Signed _____
Date _____