MATERIALS LICENSE

Amendment No. 54

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 Medical Center	In accordance with the letter dated August 28, 1996 3. License Number 23-08786-01 is amended in its entirety to read as follows:
2. 1500 East Woodrow Wilson Drive Jackson, Mississippi 39216	4. Expiration Date November 30, 2005 (extended)
	5. Docket or Reference No. 030-02261

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. Iodine 131	C. Any unsealed form for preparation and administration as specified in §35.300	C. 55.5 gigabecquerels (1.5 curies)
D. Any byproduct material with a half-life less than 120 days except iodine 131 230030	D. Any form for uses described in §35.300 initially distributed in accordance with a specific license issued pursuant to 10 CFR 32.72 or a specific license issued to the manufacturer by an Agreement State pursuant to equivalent State regulations.	D. As needed, not to exceed 3.7 gigabecquerels (100 millicuries) per container
E. Hydrogen 3	E. Any	E. 7.4 gigabecquerels (GBq) (200 millicuries (mCi))
F. Carbon 14	F. Any	F. 370 megabequerels (MBq) (10 mCi)
G. Potassium 42	G. Any	G. 370 MBq (10 mCi)
H. Sodium 24	H. Any	H. 370 MBq (10 mCi)
I. Phosphorus 32	I. Any	I. 1.55 GBq (150 mCi)

0/1

ML20

License Number 23-08786-01

Docket or Reference Number 030-02261

Amendment No. 54

MATERIALS LICENSE
SUPPLEMENTARY SHEET

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
J.	Chromium 51	J.	Any	J.	740 MBq (20 mCi)
K.	Iron 59	K.	Any	K.	740 MBq (20 mCi)
L.	Iodine 125	L.	Any	L.	1.55 GBq (150 mCi)
M.	Iodine 131	M.	Any	M.	1.85 GBq (50 mCi)
N.	Calcium 45	N.	Any	N.	370 MBq (10 mCi)
O.	Sulfur 35	O.	Any	O.	1.55 GBq (150 mCi)
P.	Cerium 141	P.	Any	P.	370 MBq (10 mCi)
Q.	Tin 113	Q.	Any	Q.	370 MBq (10 mCi)
R.	Scandium 46	R.	Any	R.	370 MBq (10 mCi)
S.	Strontium 85	S.	Any	S.	370 MBq (10 mCi)
T.	Rubidium 86	T.	Any	T.	370 MBq (10 mCi)
U.	Phosphorus 33	U.	Any	U.	3.885 GBq (150 mCi)
V.	Iodine 131	V.	Iodomethylnorcholesterol (NP-59)	V.	222 MBq (6 mCi)
W.	**Cesium 137**	**W.**	**Sealed source registered pursuant to 10 CFR 32.210 or an equivalent Agreement State regulation**	**W.**	**6.475 GBq (165 mCi)**

9. Authorized Use:

A. Medical use described in 10 CFR 35.100

B. Medical use described in 10 CFR 35.200

C. and D. Any radiopharmaceutical therapy approved in §35.300

E. through U. Laboratory research including in-vitro testing and animal studies

V. Adrenal imaging in accordance with IND 27,326

W. For use in an Amersham Model 773 instrument calibrator for calibration of radiation detection instruments

MATERIALS LICENSE
SUPPLEMENTARY SHEET

License Number
23-08786-01

Docket or Reference Number
030-02261

Amendment No. 54

CONDITIONS

10. Location of use: Department of Veterans Affairs Medical Center
1500 Woodrow Wilson Drive
Jackson, Mississippi 39216

11. The Radiation Protection Officer (RPO) for this license is Johnson D. Choppala, Ph.D., and in his absence, Jane A. Sanders, M.D.

12. Authorized users:

A.	Johnson D. Choppala, PhD.	Materials for non-human use
B.	Mohammad Athar, M.D.	Materials and uses described in 10 CFR 35.100, §35.200, and iodine 131 for treatment of hyperthyroidism and cardiac dysfunction
C.	Stanley W. Chapman, M.D.	Materials for non-human use
D.	Mary B. Coleman, Ph.D.	Materials for non-human use
E.	Robert C. Cooksey	Materials for non-human use
F.	William Melvin Flowers, M.D.	Materials and uses described in 10 CFR 35.100, §35.200, and §35.300
G.	Eduardo Gaitan, M.D.	Materials for non-human use
H.	Cheryl Hardy, Ph.D.	Materials for non-human use
I.	Kenneth J. Hardy, M.D., Ph.D.	Materials for non-human use
J.	Robin David Isaacs, M.D.	Materials for non-human use
K.	Anastasios Mihas, M.D.	Materials for non-human use
L.	Bharti R. Patel, M.D.	Materials and uses described in 10 CFR 35.100, §35.200 and §35.300
M.	Cynthia I. Powers, M.D.	Materials and uses described in 10 CFR 35.100, §35.200 and §35.300
N.	Jane A. Sanders, M.D.	Materials and uses described in 10 CFR 35.100, §35.200, §35.300, and materials in Subitem 6. T. for use with IND 27,326
O.	Martin H. Steinberg, M.D.	Materials for non-human use
P.	James G. Wilson, M.D.	Materials for non-human use
Q.	Kent A. Kirchner, M.D.	Materials for non-human use

MATERIALS LICENSE
SUPPLEMENTARY SHEET

License Number
23-08786-01

Docket or Reference Number
030-02261

Amendment No. 54

CONDITIONS

Continued -

12. R. Ajay R. Malpani, M.D. — Materials and uses described in 10 CFR 35.100, §35.200, §35.300, and materials in Subitem 6. T. for use with IND 27,326

S. Donald A. McClain, M.D., Ph.D. — Materials for non-human use

T. Sunder Jagwani, M.D. — Materials and uses described in 10 CFR 35.100 and §35.200

13. Notwithstanding the requirements of 10 CFR 35.49, the licensee may receive iodine 131 as iodomethylnorcholesterol (NP-59) from the University of Michigan, Ann Arbor, Michigan.

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

15. Licensed materials in Subitems 6.E. through 6.U. shall not be used in nor on human beings, nor in products distributed to the public.

16. A. Sealed sources 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. 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 3 months.

C. 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.

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 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 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.

CONDITIONS

Continued -

16. Continued -

F. 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 II, ATTN: Chief, Nuclear Materials Licensing/Inspection Branch, 101 Marietta Street NW., Atlanta, Georgia 30323-0199. The report shall specify the source involved, the test results, and corrective action taken.

G. 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.

17. Sealed sources containing licensed material shall not be opened by the licensee.

18. In addition to the possession limits in item 8, the licensee shall further restrict the possession of licensed material as follows:

A. For unsealed sources, to quantities less than 10^4 times the applicable limits in Appendix C, 10 CFR 20 as specified in 10 CFR 30.35(d), and

B. For sealed sources, to quantities less than 10^{10} times the applicable limits in Appendix C, 10 CFR 20 as specified in 10 CFR 30.35(d), and

C. For iodine 131, the total possession limit shall not exceed 10 curies. (Note: Applications for permission to exceed this quantity shall contain information specified in 10 CFR 30.32(i)(1).)

19. The licensee shall maintain records of information important to safe and effective decommissioning at the location identified in Condition 10 pursuant to the provisions of 10 CFR 30.35(g) until this license is terminated by the Commission.

20. 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.

21. The licensee shall conduct a physical inventory every 6 months to account for all sources and/or devices received and possessed under the license.

MATERIALS LICENSE
SUPPLEMENTARY SHEET

License Number
23-08786-01

Docket or Reference Number
030-02261

Amendment No. 54

CONDITIONS

Continued -

22. The licensee shall not acquire licensed material in a sealed source or device that contains a sealed source unless the source or device has been registered with the Nuclear Regulatory Commission under 10 CFR 32.210 or with an Agreement State.

23. The licensee is authorized to hold radioactive material with a physical half-life of less than or equal to 120 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.

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.

D. Packages of material with half-lives longer than 65 days shall be segregated from packages of material with half-lives of 65 days or less.

E. Packages of material with half-lives longer than 65 days shall be compatible with the material and the container in which it is stored.

MATERIALS LICENSE
SUPPLEMENTARY SHEET

License Number
23-08786-01

Docket or Reference Number
030-02261

Amendment No. 54

CONDITIONS

Continued -

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 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: June 15, 1990

B. Letters dated:
(1) November 1, 1990 [Additional responses]
(2) September 18, 1995 [Renewal by reference request]
(3) August 28, 1996 [add cesium 137 instrument calibrator]
(4) October 21, 1996 [commitment for calibrator operation procedures IAW RG 10.8, App B]

C. Reference NRC letter dated March 1, 1996 extending expiration date per 10 CFR 30.36.

FOR THE U.S. NUCLEAR REGULATORY COMMISSION

DAVID J. COLLINS

DATE OCT 21 1996

BY David J Collins

Region II, Division of Nuclear Materials Safety
101 Marietta Street, N.W., Suite 2900
Atlanta, Georgia 30323-0199

N:\MLICENSE\23-08786.A54

A 10/21/96

BETWEEN:

License Fee Management Branch, ARM
and
Regional Licensing Sections

(FOR LFMS USE)
INFORMATION FROM LTS

Program Code: 02120
Status Code: 0
Fee Category: EX 7C
Exp. Date: 20051130
Fee Comments: _____
Decom Fin Assur Reqd: Y

LICENSE FEE TRANSMITTAL

A. REGION

1. APPLICATION ATTACHED
   Applicant/Licensee: V. A. MEDICAL CENTER
   Received Date: 960912
   Docket No: 3002261
   Control No.: 257195
   License No.: 23-08786-01
   Action Type: Amendment

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

3. COMMENTS

Signed _____
Date _____

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 _____

October 18, 1996

Department of Veterans Affairs
Medical Center
ATTN: Richard P. Miller
Center Director
1500 East Woodrow Wilson
Jackson, Mississippi 39216

SUBJECT: TRANSMITTAL AND EXPLANATION OF LICENSE AMENDMENT
(REFERENCE: MAIL CONTROL 257195; DOCKET NO. 030-02261)

Dear Mr. Miller:

Enclosed is amendment number 54 to License No. 23-08786-01, issued in response to your request letter dated August 28, 1996. Please read the license carefully, call us should you have any questions or we have made any error. My telephone number is (404) 331-5624, and facsimile (404) 331-7437.

We have indicated the changes in **BOLD** type. Specifically, we have added the instrument calibrator which you requested. We note that you will use the model procedures contained in Regulatory Guide 10.8, Revision 2, in calibrating your survey instruments.

Sincerely,

David J. Collins, Health Physicist
Materials Licensing/Inspection Branch 2
Division of Nuclear Materials Safety

Enclosure:
1. Amendment 54, License No. 23-08786-01

UNITED STATES
NUCLEAR REGULATORY COMMISSION
REGION II
101 MARIETTA STREET, N.W., SUITE 2900
ATLANTA, GEORGIA 30323-0199

OCT 21 1996

INFORMATION FOR NRC MATERIAL LICENSEES

Please find enclosed:
_____ Your NRC material license
__✓__ Amendment to your NRC material license
_____ Amendment renewing your NRC material license
_____ Amendment terminating your NRC material license
_____ Notice for Radiographer Quality Assurance Approval Program

Please review the enclosed document carefully and be sure that you understand all conditions. If there are any errors or questions, please notify this office (ATTN: Ms. Diane Heim at (404) 331-4673) so that we can provide appropriate corrections and answers.

Please be advised that your license expires at the end of the day in the month and year stated in the license. Unless your license has been terminated, you must conduct your program involving byproduct materials in accordance with the conditions of your NRC license, representations made in your license application, and NRC regulations. In particular, note that you must:

1. Operate in accordance with NRC regulations 10 CFR 19, "Notice, Instructions and Reports to Workers: Inspections," 10 CFR Part 20, "Standards for Protection Against Radiation," and other applicable regulations.

2. Not possess and use materials authorized in Items 6, 7, and 8, on the license until:

   a. you have constructed the facilities and obtained the equipment described in the license application and supporting documentation; and

   b. you have notified the U. S. Nuclear Regulatory Commission, Region II, ATTN: Materials Licensing\Inspection Branch, in writing, that activities authorized by the license will be initiated.

   c. you have submitted & certified implementation of a Quality Management Program (10 CFR 35.32) for radiotherapy, or for administering > 30 uCi of I-125 or I-131.

3. Notify NRC, in writing, within 30 days:

   a. when an authorized user, Radiation Safety Officer, or Teletherapy Physicist permanently discontinues performance of duties under the license or has a name change; or

   b. when the licensee's mailing address changes (no fee is required if the location of byproduct material remains the same).

4. In accordance with 10 CFR 30.36(b) and/or license condition, notify NRC, promptly, in writing, and request termination of the license:

   a. when you decide to terminate all activities involving materials authorized under the license; or

   b. if you decide not to complete the facility, acquire equipment, or possess and use authorized material.

(Rev. 3/96)

5. Request and obtain a license amendment before you:

   a. receive or use byproduct material for a clinical procedure permitted under Part 35 but not permitted by your license issued pursuant to this part.

   b. permit anyone, not authorized under 10 CFR 35, Subpart J, to work as an authorized user under a license for medical use of byproduct material.

   c. permit anyone, not authorized under 10 CFR 35, Subpart J, to work as a Radiation Safety Officer, Teletherapy Physicist, or Nuclear Pharmacist, under a license for medical use of byproduct material.

   d. order byproduct material in excess of the amount, or a different radionuclide or form, other than authorized on the license;

   e. add or change the areas of use or address (or addresses) of use identified in the license application or on the license; or

   f. change ownership of your organization.

6. Submit a complete renewal application with proper fee or termination request at least 30 days before the expiration date of your license. You will receive a reminder notice approximately 90 days before the expiration date. Possession of byproduct material after your license expires is a violation of NRC regulations. Transfer of licensed materials must be consistent with 10 CFR 30.41, 40.51 or 70.42, as applicable. A license will not normally be renewed, except on a case-by-case basis, in instances where licensed material has never been possessed or used.

In addition, please note that NRC Form 313 requires the applicant, by his/her signature, to verify that the applicant understands that all statements contained in the application are true and correct to the best of the applicant's knowledge. The signatory for the application should be the licensee or certifying official rather than a consultant.

You will be periodically inspected by NRC. Failure to conduct your program in accordance with NRC regulations, license conditions, and representations made in your license application and supplemental correspondence with NRC will result in enforcement action against you. This could include issuance of a Notice of Violation, or imposition of a Civil Penalty, or an order suspending, modifying or revoking your license as specified in the "General Statement of Policy and Procedures for NRC Enforcement Actions," NUREG-1600, (7/95). Since serious consequences to employees and the public can result from failure to comply with NRC requirements, prompt and vigorous enforcement action will be taken against those who do not achieve the necessary attention to detail and standard of compliance expected of licensees.

Thank you for your cooperation.

Enclosures:
1. NRC License
2. Category Marked Below for:
   [ ] New licenses: NUREG-1600 (7/95); 19; 20; 30; 40 or 70, as appropriate; 71; 170; NRC Form 3; Agreement State list; and NRC Form 313.
   [ ] New radiography licenses: Parts 34; 150.
   [ ] New medical and teletherapy licenses: Part 35.
   [ ] Amendments and renewals: NRC Form 313.

DEPARTMENT OF VETERANS AFFAIRS
Medical Center
1500 East Woodrow Wilson
Jackson MS 39216

October 21, 1996

In Reply Refer To: 586/11RSO

U.S. Nuclear Regulatory Commission
Attn. Mr. David collins
Nuclear Materials Licencing Section
Region II
101 Marietta Street, N.W.
Suite 2900
Atlanta, GA 30323-0199

SUBJ: Request for Amendment to Materials License No. 23-08786-01
Docket No. 3002261

Gentlemen:

In support of our request for subject amendment dated August 28, 1996, we submit the following additional information.

We will follow the procedures as outlined in Regulatory Guide 10.8 and the procedure outlined by the Manufacturer.

If you need additional information please contact, Johnson D. Choppala, Ph.D. at (601) 364-1419.

Sincerely yours,

Richard P. Miller
Center Director

CONVERSATION RECORD

TIME 0830 DATE 10/21/96

TYPE ☐ VISIT ☐ CONFERENCE ☐ TELEPHONE ☐ INCOMING ☐ OUTGOING

Location of Visit/Conference:

{ } NEW
{ } RENEW
{X} AMEND

NAME OF PERSON(S) CONTACTED OR IN CONTACT WITH YOU	ORGANIZATION (Office, dept., bureau, etc.)	TELEPHONE NO.
Johnson Chappala	VAMC Jackson MS	601 362-1568

SUBJECT: Deficiency Telephone Conversation

CONTROL: 257195

DOCKET: 30-02261

LICENSE NUMBER: 23-08786-01

SUMMARY

① Amendment letter request for instr. calibrator does not specify calibr. procedures IAW RG 10.8 and manufacturers procedures. (App B)

Left message to fax above # commitment to RII.

ACTION REQUIRED: SEE OVER Y N

Hold for fax

DUE DATE

NAME OF PERSON DOCUMENTING CONVERSATION: David J. Collins

SIGNATURE: David J. Collins

DATE: 10/21/96

ACTION TAKEN

SIGNATURE	TITLE	DATE

DEPARTMENT OF VETERANS AFFAIRS
Medical Center
St Louis MO 63125

In Reply Refer To:

September 9, 1996

U.S. Nuclear Regulatory Commission
Region II
101 Marietta Street, Suite 2900
Atlanta, GA 30323

SUBJECT: NRC License No. 23-08786-01

The enclosed correspondence from the Jackson, Mississippi 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,

for Cindy Bukowsky

Francis K. Herbig
Health Physics Programs

257185

Department of Veterans Affairs

Memorandum

Date: August 28, 1996

From: Center Director (11RSO), VAMC, Jackson, MS

Subj: Request for Amendment to License No. 23-08786-01

To: Mr. Fran Herbig, Director, National Health Physics Program, Department of Veterans Affairs

1. After your review, please forward the attached request for amendment to materials license to the Nuclear Regulatory Commission, Region II.

2. If you have questions or need additional information, please contact Johnson D. Choppola, Ph.D., Radiation Safety Officer, at FTS 601-364-1419.

Richard P. Miller

Attachment

287195

VA FORM MAR 1989 2105

DEPARTMENT OF VETERANS AFFAIRS
Medical Center
1500 East Woodrow Wilson
Jackson MS 39216

August 28, 1996

In Reply Refer To: 586/11RSO

U.S. Nuclear Regulatory Commission
Attn: Nuclear Materials Licensing Station
Region II
101 Marietta Street, N.W.
Suite 2900
Atlanta, GA 30323-0199

SUBJ: Request for Amendment to Materials License No. 23-08786-01
Docket No. 3002261

Gentlemen:

We are in the process of acquiring a gamma survey instrument calibrator containing a cesium-137 source (Amersham Model 773) with activity of 150(± 10%) mCi; therefore, we are requesting an amendment to subject license to possess 165 mCi of Cesium-137.

If you have questions or need additional information, please contact Johnson D. Choppala, Ph.D., at (601) 364-1419.

Sincerely yours,

Richard P. Miller
Center Director