NRC FORM 374
(10-89)

U.S. NUCLEAR REGULATORY COMMISSION

MATERIALS LICENSE

Amendment No. 65

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, 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 the Army Walter Reed Army Medical Center (WRAMC) 2. Washington, D.C. 20307-5001	In accordance with the letter dated February 28, 1994, 3. License number 08-01738-02 is amended in its entirety to read as follows:
	4. Expiration date April 30, 1993 (Extended)
	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	B. Any	B. 2 curies
C. Xenon 133	C. Any	C. 2 curies
D. Krypton 85	D. Any	D. 1 curie
E. Gold 198	E. Any	E. 1 curie
F. Phosphorus 32	F. Any	F. 2 curies
G. Carbon 14	G. Any	G. 2 curies
H. Iodine 125	H. Any	H. 1 curie
I. Iridium 192	I. Any	I.
J. Chromium 51	J. Any	J. 750 millicuries
K. Sulfur 35	K. Any	K. 1 curie
L. Hydrogen 3	L. Any	L. 5 curies
M. Molybdenum 99	M. Molybdenum 99/ Technetium 99m Generators	M. 23 curies
N. Technetium 99m	N. Any	N. 23 curies
O. Strontium 90	O. Sealed sources	O.
P. Cesium 137	P. Sealed sources	P.
Q. Gadolinium 153	Q. Sealed sources	Q.
R. Iodine 125	R. Sealed sources (Norland Inst. Co., Model 178A591A)	R. 400 millicuries
S. Iodine 125	S. Sealed sources (3M Company seeds)	S. 500 millicuries
T. Iodine 125	T. Sealed sources (AECL Models C235 or C324, or Amersham Corp. Model IMC.P2)	T. 4 sources, not to exceed 300 millicuries each

MATERIALS LICENSE
SUPPLEMENTARY SHEET

License number: 08-01738-02
Docket or Reference number: 030-01317
Amendment No. 65

(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
U. Cesium 137	U. Sealed sources	U.
V. Cobalt 60	V. Sealed sources	V.
W. Americium 241	W. Any	W. 100 microcuries
X. Americium 241	X. Sealed sources	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 depleted 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. Sealed sources	FF.

9. Authorized use

A. through T. Medical research, diagnosis, and therapy; research and development as defined in 10 CFR 30.4.
U. through Z. Research and development as defined in 10 CFR 30.4; teaching.
AA. and BB. Teaching and laboratory research.
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; 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 and Gillette Building, 270 Research Center, 1413 Research Boulevard, Rockville, Maryland.

11. Radiation Safety Officer: CPT Mark A. Melanson, CHP.

Ex 2

MATERIALS LICENSE
SUPPLEMENTARY SHEET

License number
08-01738-02

Docket or Reference number
030-01317

Amendment No. 65

(Continued) CONDITIONS

12. A. Licensed material shall be used by, or under the supervision of, individuals designated by the licensee's Radiation Safety Committee, Col. Joan T. Zajtchuk, Chairman.

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. Detector cells containing a titanium tritide foil or a scandium tritide foil shall only be used in conjunction with a properly operating temperature control mechanism which prevents foil temperatures from exceeding that specified by the manufacturer.

15. 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).

16. The licensee may transport licensed material in accordance with the provisions of 10 CFR 71, "Packaging and Transportation of Radioactive Material."

17. 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.

18. 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 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.

MATERIALS LICENSE
SUPPLEMENTARY SHEET

License number 08-01738-02

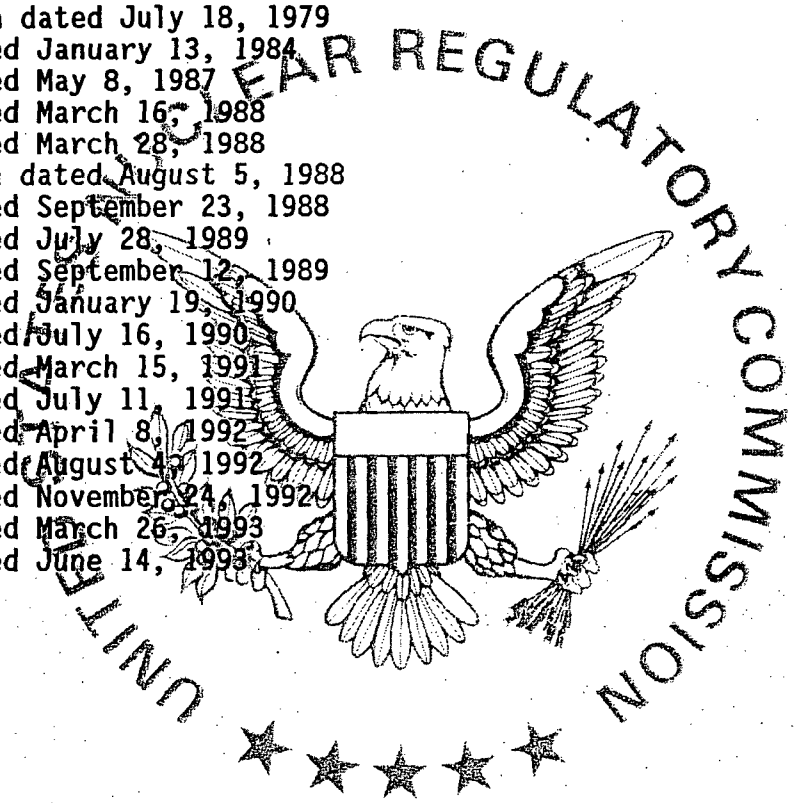
Docket or Reference number 030-01317

Amendment No. 65

(Continued) CONDITIONS

19. 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 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
H. Letter dated July 28, 1989
I. Letter dated September 12, 1989
J. Letter dated January 19, 1990
K. Letter dated July 16, 1990
L. Letter dated March 15, 1991
M. Letter dated July 11, 1991
N. Letter dated April 8, 1992
O. Letter dated August 4, 1992
P. Letter dated November 24, 1992
Q. Letter dated March 26, 1993
R. Letter dated June 14, 1993



For the U.S. Nuclear Regulatory Commission
Original Signed By:
Thomas K. Thompson

Date APR 15 1994

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

APR 15 1994

License No. 08-01738-02
Docket No. 030-01317
Control No. 119389

Department of the Army
ATTN: Peter H. Myers, Lt. Colonel
HQDA (DASG-PSP)
5109 Leesburg Pike
Falls Church, Virgina 22041-3258

Dear Lt. Colonel:

Please review the enclosed document carefully and be sure that you understand all conditions. If there are any errors or questions, please notify the U.S. Nuclear Regulatory Commission, Region I office, the Licensing Assistance Section, (610) 337-5093 or 5239, 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. Until your license is 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 Part 19, "Notices, Instructions and Reports to Workers; Inspections," 10 CFR Part 20, "Standards for Protection Against Radiation," and other applicable regulations.

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

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

3. 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.

4. Request and obtain a license amendment before you:

a. change Radiation Safety Officers;

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

c. add or change the areas of use, or address or addresses of use identified in the license application or on the license; or

d. change ownership of your organization.

5. 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. 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 the 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 Policy and Procedures for NRC Enforcement Actions, 10 CFR Part 2, Appendix C.

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 when dealing with licensees who do not achieve the necessary meticulous attention to detail and the high standard of compliance which NRC expects of its licensees.

Thank you for your cooperation.

Sincerely,

Original signed By:
Thomas K. Thompson

Thomas K. Thompson
Senior Health Physicist
Nuclear Materials Safety Branch
Division of Radiation Safety
and Safeguards

Enclosures:
1. Amendment No. 65
2. Requirements for Materials Licensees

TKT
DRSS:RI
Thompson/srb

4/11 /94

OFFICIAL RECORD COPY - G:\WPS\MLTR\L0801738.02 - 04/07/94

DEPARTMENT OF THE ARMY
OFFICE OF THE SURGEON GENERAL
5109 LEESBURG PIKE
FALLS CHURCH, VA 22041-3258

REPLY TO
ATTENTION OF

February 28, 1994

030-01317

Preventive Medicine
Consultants Division

US Nuclear Regulatory Commission
Region I
475 Allendale
King of Prussia, Pennsylvania 19406

Dear Sir:

Enclosed are two copies of a request to amend Byproduct Material License Number 08-01738-02, Walter Reed Army Medical Center, Washington, DC, by appointing Captain Mark A. Melanson as Radiation Safety Officer.

Recommend approval.

Sincerely,

Peter H. Myers
Colonel, U.S. Army
Radiological Hygiene Consultant

Enclosure

CF: HQ, USAEHA, ATTN: HSHB-MR-H, APG, MD 21010-5422
HQ, USWRAMC, ATTN: HSHL-HP, Wash, DC 20307-5001

FEE EXEMPT

119389

ML 10 MAR 7 1994

OFFICIAL RECORD COPY

DEPARTMENT OF THE ARMY
WALTER REED ARMY MEDICAL CENTER
WASHINGTON, DC 20307-5001

REPLY TO
ATTENTION OF:

HSHL-HP (385-11m) 17 February 1994

MEMORANDUM FOR U.S. Nuclear Regulatory Commission, Region I, Nuclear Material Safety Section A, 475 Allendale Road, King of Prussia, PA 19406

SUBJECT: Amendment of U.S. Nuclear Regulatory Commission License No. 08-01738-02.

1. Request that NRC License No. 08-01738-02 for Walter Reed Army Medical Center be amended to reflect a change in the Radiation Safety Officer from LTC Arthur G. Samiljan to CPT Mark A. Melanson, CHP. CPT Melanson has been assigned as the Chief, Health Physics Office at Walter Reed AMC since February 1994. Before that he was the Chief, Operations Branch of the Health Physics Office and alternate RSO at WRAMC since June 1991. A Training and Experience Form and a Curriculum Vitae for CPT Melanson are attached (Enclosures 1 and 2).

2. If any additional information is required please contact Mr. David Burton or CPT Melanson at (301) 427-5161.

FOR THE COMMANDER:

Earl S. Newsome

2 Encls

EARL S. NEWSOME III
LTC, MS
Executive Officer

CF:
CDR, HSC ATTN: HSCL-P
HQDA (SGPS-PSP-E)

030-01317

DEPARTMENT OF THE ARMY
WALTER REED ARMY MEDICAL CENTER
WASHINGTON, DC 20307-5001

REPLY TO
ATTENTION OF:

HSHL-HP (385-11m)

17 February 1994

MS-16
K-8

MEMORANDUM FOR U.S. Nuclear Regulatory Commission, Region I, Nuclear Material Safety Section A, 475 Allendale Road, King of Prussia, PA 19406

SUBJECT: Amendment of U.S. Nuclear Regulatory Commission License No. 08-01738-02.

1. Request that NRC License No. 08-01738-02 for Walter Reed Army Medical Center be amended to reflect a change in the Radiation Safety Officer from LTC Arthur G. Samiljan to CPT Mark A. Melanson, CHP. CPT Melanson has been assigned as the Chief, Health Physics Office at Walter Reed AMC since February 1994. Before that he was the Chief, Operations Branch of the Health Physics Office and alternate RSO at WRAMC since June 1991. A Training and Experience Form and a Curriculum Vitae for CPT Melanson are attached (Enclosures 1 and 2).

2. If any additional information is required please contact Mr. David Burton or CPT Melanson at (301) 427-5161.

FOR THE COMMANDER:

Earl S. Newsome

2 Encls

EARL S. NEWSOME III
LTC, MS
Executive Officer

CF:
CDR, HSC ATTN: HSCL-P
HQDA (SGPS-PSP-E)

FEB 21 1994

Recontrolled 119389
Deficiency response 112749
FEB 24 1994

OFFICIAL RECORD COPY ML 10

CURRICULUM VITAE OF
MARK ALLEN MELANSON

PERSONAL DATA:

HOME ADDRESS: [redacted] Ex6

SSN:

CITIZENSHIP:

MARITAL STATUS:

EDUCATION:

COLLEGE: Dickinson College, Carlisle, PA
B.S. Nuclear Physics, Mathematics

[redacted] Ex6

GRADUATE SCHOOL: Johns Hopkins University
School of Hygiene and Public Health
M.S. Radiological Health

[redacted] Ex6

CERTIFICATION: Comprehensive, American Board of Health Physics

EXPERIENCE:

OCT 83 - DEC 86 Radiation Safety Officer and Medical Physicist
Department of Radiology
Landstuhl Army Regional Medical Center, Landstuhl, West Germany
4 Mammographic x-ray systems

DEC 86 - DEC 88 Consultant, Medical Physics
Medical Physics Branch
Health Physics Division
US Army Environmental Hygiene Agency
Aberdeen Proving Grounds, MD
40 Mammographic x-ray systems

JUN 91 - PRESENT Deputy Health Physics Officer
Walter Reed Army Medical Center
Washington, D.C.
10 Mammographic x-ray systems

Societies and Affiliations:

American Association of Physicists in Medicine
American Academy of Health Physics
Health Physics Society
Sigma Pi Sigma Physics Honor Society
Delta Omega Public Health Honor Society
Theta Chi Fraternity

Ex 6

TRAINING AND EXPERIENCE OF AUTHORIZED RADIOISOTOPE USERS

1. NAME OF AUTHORIZED USER (Last, First, MI)	2. STATE OR TERRITORY IN WHICH LICENSED: (MD, DDS, DVM, etc.)
MELANSON, Mark A.	N/A

RANK/GRADE	ORGANIZATION	ORGANIZATIONAL DIVISION	BLDG./ROOM NO.	WRAMC AUTHORIZATION NO.
CPT/O-3	HPO, WRAMC	HPO	186/5	221

3. CERTIFICATION

SPECIALTY BOARD A	CATEGORY B	MONTH AND YEAR CERTIFIED C
ABHP	Comprehensive	11/92

4. FORMAL EDUCATION — HIGHEST ACADEMIC DEGREE ATTAINED

	Higher Educational Institutions Attended	Type of Program Pursued and Dates of Attendance	Degree, Diploma or Certificate Received and Date
a.	Johns Hopkins (JHU)	MS/Rad Hlth Sci	MS/ EX6
b.	Dickinson College	BS	BS/
c.			
d.			

5. TRAINING RECEIVED IN BASIS RADIOISOTOPE HANDLING TECHNIQUES

FIELD OF TRAINING A	LOCATION AND DATE(S) OF TRAINING (Include course title if known) B	TYPE AND LENGTH OF TRAINING: LECTURE/LABORATORY COURSES (Hours) C	TYPE AND LENGTH OF TRAINING: SUPERVISED LABORATORY EXPERIENCE (Hours) D
a. RADIATION PHYSICS AND INSTRUMENTATION	JHU / Dickinson	80 / 40	80 / 40
b. RADIATION PROTECTION	JHU / Dickinson	80 / 40	80 / 40
c. MATHEMATICS PERTAINING TO THE USE AND MEASUREMENT OF RADIOACTIVITY	JHU / Dickinson	80 / 40	80 / 40
d. RADIATION BIOLOGY	JHU / Dickinson	80 / 40	80 / 40
e. RADIOPHARMACEUTICAL CHEMISTRY	JHU / Dickinson	80 / 40	80 / 40

6. EXPERIENCE WITH RADIATION *(Actual use of Radioisotopes) (Sealed or unsealed source)*

ISOTOPE	MAXIMUM AMOUNT	WHERE EXPERIENCE WAS GAINED	DURATION OF EXPERIENCE	TYPE OF USE
I-131	200 mCi	LARMC, FRG	9/83 - 12/86	Therapy
Tc-99m	50 mCi	LARMC, FRG	9/82 - 12/86	Imaging
Cs-139	25 mCi	" "	" "	Calibration
Tl-201	75 mCi	" "	" "	Imaging
Ba-133	500 mCi	" "	" "	Pa+ Ma ke
Co-57				
Co-58	10 mCi	LARMC FRG	9/83 - 12/86	Calibration
Ga-67	3 mCi	" "	" "	Imaging
In-111	500 mCi	" "	" "	" "
I-123	500 mCi	" "	" "	" "
C-11	2 Ci	JHU	7/89 - 5/91	Imaging
F-18	500 mCi	" "	" "	" "
Ra-226	50 mCi	" "	" "	Lab
H-3	2 Ci	AEHA	12/86 - 12/88	Special Project

7. EXPERIENCE WITH RADIATION PRODUCING DEVICES *(X-ray, Irradiators, etc.)*

DEVICE	WHERE EXPERIENCE WAS GAINED	DURATION OF EXPERIENCE	TYPE OF USE
Neutron Howitzer Pu-239 Be	Dickinson College	9/79 - 5/83	Research
Diagnostic X-Ray Systems	MHPS, HPD, AEHA	12/86 - 12/88	Compliance Surveys
Diagnostic X-Ray Systems	LARMC	9/83 - 12/86	" "
Cobalt-60 10 Ci	AEHA	12/86 - 12/88	Calibration
Blood Irradiator Cs-137 - 2,000 Ci	WRAMC	7/91 - Present	Blood Treatment

8. CERTIFICATION:

I certify that the information provided hereon is true and complete to the best of my knowledge.

15 Feb 97
(Date Signed)

Mark C. Adams
(Signature of Applicant)