MATERIALS LICENSE

Amendment No. 67

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 the application dated February 28, 1995,
1. Department of the Army Walter Reed Army Medical Center (WRAMC)	3. License Number 08-01738-02 is amended in its entirety to read as follows:
2. Washington, D.C. 20307-5001	4. Expiration Date June 30, 1999
	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. Phosphorus 32	E. Any	E. 2 curies
F. Carbon 14	F. Any	F. 2 curies
G. Iodine 125	G. Any	G. 1 curie
H. Iridium 192	H. Any	H.
I. Chromium 51	I. Any	I. 750 millicuries
J. Sulfur 35	J. Any	J. 1 curie
K. Hydrogen 3	K. Any	K. 5 curies
L. Molybdenum 99	L. Molybdenum 99/ Technetium 99m Generators	L. 23 curies
M. Technetium 99m	M. Any	M. 23 curies
N. Strontium 90	N. Sealed sources	N.
O. Cesium 137	O. Sealed sources	O.
P. Gadolinium 153	P. Sealed sources	P.
Q. Iodine 125	Q. Sealed sources (3M Company seeds)	Q. 500 millicuries
R. Iodine 125	R. Sealed sources ((Norland Inst. Co., Model 178A591A or AECL Models C235 or C324, or Amersham Corp. Model IMC.P2)	R. 4 sources, not to exceed 300 millicuries each

Information in this record was deleted in accordance with the Freedom of Information Act, exemptions 2 + 6
2006-0238

Ex 2

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MATERIALS LICENSE
SUPPLEMENTARY SHEET

License number: 08-01738-02
Docket or Reference number: 030-01317
Amendment No. 67

(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 posses any one time under license
S. Cesium 137	S. Sealed sources	S.
T. Cobalt 60	T. Sealed sources	T.
U. Americium 241	U. Any	U. 100 microcuries
V. Americium 241	V. Sealed sources	V.
W. Nickel 63	W. Sealed sources and foils	W. 1 curie
X. Iodine 129	X. Sealed sources	X. 1 curie
Y. Thorium	Y. Any	Y. 5 kilograms
Z. Uranium	Z. Any	Z. 50 kilograms
AA. Cesium 137	AA. Sealed sources	AA.
BB. Americium 241	BB. Sealed sources	BB.
CC. Cesium 137	CC. Sealed source	CC.
DD. Uranium depleted in Uranium 235	DD. Plated Metal	DD. 400 Kilograms

9. Authorized use

A. through CC. Medical diagnosis, therapy and research in humans in accordance with any applicable Food and Drug Administration (FDA) requirements. Research an development as defined in 10 CFR 30.4, including animal studies; instrum calibration; student instruction.

DD. Shielding in linear accelerators.

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. A. Licensed material shall be used by, or under the supervision of, individuals designated in writing by the Radiation Safety Committee, Col. George J. Brown Chairperson.

B. The use of licensed material in or on humans shall be by a physician, dentist, or podiatrist as defined in 10 CFR 35.2.

Ex 2

C. Physicians, dentists, or podiatrists designated to use licensed material in or on humans shall meet the training criteria established in 10 CFR 35, Subpart J and shall be designated in writing by the licensee's Radiation Safety Committee.

D. The Radiation Safety Officer for this license is Col. William B. Johnson.

12. In addition to the possession limits in Item 8, the licensee shall further restrict the possession of licensed material at a single location to quantities below the limits specified in 10 CFR 30.72 which require consideration of the need for an emergency plan for responding to a release of licensed material.

13. Notwithstanding the requirements of 10 CFR 35.49(a) and (b), 35.100, 35.200, 35.300, 35.400 and 35.500 the licensee may use for any medical use any byproduct material or reagent kit. The licensee shall possess and use byproduct material for medical use in accordance with the prescriptive and performance criteria in the other sections of 10 CFR 35. This does not relieve the licensee from complying with applicable U.S. Food and Drug Administration (FDA) and other Federal and State requirements.

14. A. 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 the foil temperatures from exceeding that specified in the certificate of registration referred to in 10 CFR 32.210.

B. When in use, detector cells containing a titanium tritide foil or a scandium tritide foil shall be vented to the outside.

15. The licensee shall conduct a physical inventory every three months to account for all sealed sources and devices containing licensed material received and possessed pursuant to 10 CFR 35.59, 35.400 and 35.500 and every six months for all other sealed sources and devices.

16. 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.

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

18. The licensee is authorized to hold radioactive material with a physical half-life of less than 65 days and Sulfur 35, Cobalt 58, Iridium 192, Scandium 46, 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.

MATERIALS LICENSE
SUPPLEMENTARY SHEET

License number
08-01738-02

Docket or Reference number
030-01317

Amendment No. 67

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

20. The licensee shall possess and use byproduct material for human research in accordance with the prescriptive and performance criteria in all sections of 10 CFR Part 35 except sections 35.49(a) and (b), 35.100, 35.200, and 35.300.

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

22. 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.

23. Radioactive waste generated shall be stored in accordance with the statements, representations, and procedures included with the waste storage plan described in the licensee's letter/application dated September 9, 1993 and October 29, 1993.

24. Notwithstanding the requirements of 10 CFR 35.315(a)(7), the licensee may control contamination in rooms used to house radiopharmaceutical therapy patients in accordance with the commitments and procedures contained in the letters dated April 8, 1992 and November 24, 1992.

25. 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 January 21, 1993
B. Letter dated September 9, 1993
C. Letter dated October 29, 1993
D. Letter dated December 9, 1993
E. Letter dated February 15, 1994
F. Letter dated June 2, 1994

For the U.S. Nuclear Regulatory Commission

Date JUN - 8 1995

By Original Signed By:
Francis M. Costello

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

JUN - 8 1995

License No. 08-01738-02
Docket No. 030-01317
Control No. 121438

Colonel Peter H. Myers
Department of the Army
Headquarters, U.S. Army Medical Command
2050 Worth Road/MCHO-CL-W
Fort Sam Houston, Texas 78234-6000

Dear Colonel Myers:

This refers to your amendment request dated February 28, 1995 for the above-referenced license. Enclosed with this letter is the amended 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, the Licensing Assistance Section, (610) 337-5093 or 5239, so that we can provide appropriate corrections and answers.

Thank you for your cooperation.

Sincerely,

ORIGINAL SIGNED BY:

Francis M. Costello, Chief
Medical Licensing Section
Nuclear Materials Safety Branch
Division of Radiation Safety
and Safeguards

OFFICIAL RECORD COPY [redacted] ML 10

License No. 08-01738-02
Docket No. 030-01317
Control No. 121438

Enclosures:
1. Amendment No. 67
2. 10 CFR Parts 2, 19, 20, 21, 30, 35, and 71and 170
3. NRC Form 3 and 313

cc: Colonel William B. Johnson
Department of the Army
Walter Reed Army Medical Center
mc HSHL-HP/Health Physics Office
Washington, DC 20307-5001

DOCUMENT NAME: R:\WPS\MLTR\L0801738.02
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	DRSS/RI	N	/ FMS		/			
NAME	JMCFADDEN/jrm JRM		FCOSTELLO					
DATE	05/23/95		05/ / /95		05/ /95		05/ /95	

OFFICIAL RECORD COPY

DEPARTMENT OF THE ARMY
HEADQUARTERS, U.S. ARMY MEDICAL COMMAND
2050 WORTH ROAD
FORT SAM HOUSTON, TEXAS 78234-6000

REPLY TO
ATTENTION OF

February 28, 1995

030-01317

Preventive Medicine
and Wellness 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. The request for amendment is being submitted to redesignate the Chariman of WRAMC's Radiation Control Committee.

Recommend approval.

Sincerely,

Peter H. Myers
Colonel, U.S. Army
Radiological Hygiene Consultant
to The Surgeon General

Enclosure

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

121438

MAR - 7 1995

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

REPLY TO
ATTENTION OF:

HSHL-H-HP (385-11m) 22 February 1995

MEMORANDUM FOR Commander, US Army Medical Command,
ATTN: MCHO-CL-W/COL Myers, 2050 Worth Road, Fort Sam Houston, Texas 78234-6000

SUBJECT: Request for Amendment of NRC Commission License Number 08-01738-02

1. Request that Nuclear Regulatory Commission License Number 08-01738-02 issued to Walter Reed Army Medical Center, Washington, D.C., be amended to appoint COL George J. Brown as the new Chairman of the Radiation Control Committee. COL Joan T. Zajtchuk, the previous Chairman named on our License, has departed. COL George J. Brown has replaced COL Zajtchuk. COL Brown is the Deputy Commander for Clinical Services (DCCS). The DCCS position is a senior level executive managements position, one level below the Commander, Walter Reed Army Medical Center (WRAMC). The members of the WRAMC Radiation Control Committee have reviewed COL Brown's curriculum vitae, and have recommended his approval as Chairman. COL Brown's curriculum vitae are enclosed.

2. Any questions or comments pertaining to this request should be directed to COL William B. Johnson, Chief, Health Physics Office, Walter Reed Army Medical Center, Washington DC 20307-5001, at Commercial Phone (301) 427-5161 or DSN 291-5151.

FOR THE COMMANDER:

Michael P. Kochel

Encl
as

MICHAEL P. KOCHEL
LTC, MS
Executive Officer

121438

MAR - 7 1995

OFFICIAL RECORD COPY ML 10

CURRICULUM VITAE

NAME	George Joseph Brown, M.D. Colonel, Medical Corps United States Army
PRESENT POSITION	Deputy Commander for Clinical Services Walter Reed Army Medical Center Washington, D.C. 20307-5001
OFFICE ADDRESS	Colonel George J. Brown Deputy Commander for Clinical Services Walter Reed Army Medical Center Washington, D.C. 20307-5001 Phone (202) 782-6394
HOME ADDRESS	
DATE and PLACE OF BIRTH	
CITIZENSHIP	
MARITAL STATUS	
LICENSURE	
COLLEGE	Hampton Institute Hampton, Virginia B.A. Degree (Biology)

Encl

MEDICAL SCHOOL	Boston University School of Medicine Boston, Massachusetts [redacted] Ex 6
INTERNSHIP	Fitzsimons Army Medical Center Denver, Colorado Internal Medicine 1 July 1973 - 30 June 1974
RESIDENCY	Fitzsimons Army Medical Center Denver, Colorado Internal Medicine 1 July 1974 - 30 June 1976
FELLOWSHIP	Walter Reed Army Medical Center Washington, D.C. Gastroenterology 1 July 1978 - 30 June 1980
CERTIFICATION	National Board of Medical Examiners - 1974 Certifying Examination - American Board of Internal Medicine - 1976 Certifying Examination - American Board of Internal Medicine (Gastroenterology) - 1981
MILITARY EDUCATION	Graduate U.S. Army War College Carlisle Barracks Carlisle, PA 17013 June 1991

MEMBERSHIP IN PROFESSIONAL SOCIETIES

Member, American College of Physician Executives

Member, American College of Physicians

MILITARY SERVICE

ROTC Commission, Second Lieutenant
United States Army, 1969

Senior Medical Student Program
United States Army, 1972-73

Active Duty
United States Army, 1972 - Present

POSITIONS HELD

September 1972 - May 1973
President, Boston University Chapter
Student National Medical Association

September 1972 - May 1973
Member, Admissions Committee
Boston University School of Medicine

January - June 1976
Chief Medical Resident
Fitzsimons Army Medical Center
Denver, Colorado

January - June 1976
Editor, MEDICAL BULLETIN
Fitzsimons Army Medical Center
Denver, Colorado

1 July 1976 - 30 June 1978
Chief, Gastroenterology Section
Department of Medicine
U.S. Army Medical Department Activity
Fort Carson, Colorado

1 July 1977 - 30 June 1978
Hospital Epidemiologist
U.S. Army Medical Department Activity
Fort Carson, Colorado

June 1979 - June 1980	Member, Medical Education Committee Walter Reed Army Medical Center Washington, D.C.
June 1979 - June 1980	Instructor in Medicine Uniformed Services University of the Health Sciences Bethesda, Maryland
September 1980 - June 1986	Assistant Clinical Professor of Medicine Uniformed Services University of the Health Sciences Bethesda Maryland
June 1981 - May 1986	Assistant Clinical Professor of Medicine Texas Tech University Health Sciences Center El Paso, Texas
June 1980 - June 1984	Assistant Chief, Gastroenterology Service William Beaumont Army Medical Center El Paso, Texas
July 1984 - May 1986	Chief, Gastroenterology Service William Beaumont Army Medical Center El Paso, Texas
1980 - 1984	Assistant Director Annual William Beaumont Gastrointestinal Symposium William Beaumont Army Medical Center
1984 - 1986	Director Annual William Beaumont Gastrointestinal Symposium William Beaumont Army Medical Center
March 1985 - May 1986	Chief, Department of Medicine William Beaumont Army Medical Center El Paso, Texas 79920

June 1986 - July 1988	Internal Medicine Consultant Headquarters, 7th Medical Command Heidelberg, West Germany
1986 - 1988	Senior Editorial Advisor Medical Bulletin of the US Army Medical Department
July 1988 - July 1990	Command Surgeon US Command, Berlin West Berlin, Germany
July 1988 - July 1990	Commanding Officer U.S. Army Hospital West Berlin, Germany
June 1989 - July 1990	President Berlin International Medical Society West Berlin, Germany
August 1990 - June 1991	Current Affairs Panel U.S. Army War College Carlisle Barracks, PA
July 1991 - January 1993	Commanding Officer Letterman Army Institute of Research Presidio of San Francisco, CA 94129
February 1993 - January 1995	Commanding Officer Blanchfield Army Community Hospital Fort Campbell, KY 42223
February 1995 - Present	Deputy Commander for Clinical Services Walter Reed Army Medical Center Washington, D.C. 20307
AWARDS	Ford Foundation Scholar September 1965 - May 1969
	Beta Kappa Chi Scientific Honor Society - January 1968
	Experiment in International Living Grant for Foreign Study in England (Genetics) January 1968 - July 1968

R.O.T.C. Distinguished Military Student
July 1969

R.O.T.C. Distinguished Military Graduate
July 1969

Martin Luther King, Jr. Fellow
Boston University School of Medicine
September 1969 - May 1973

Solomon Carter Fuller Memorial
Psychiatry Award
Boston University School of Medicine
May 1973

* Alpha Omega Alpha Honor Medical Society
Boston University School of Medicine
Chapter
January 1973

United States Army Commendation Medal
with First Oak Leaf Cluster
1978, 1986

United States Army Achievement Medal
with First Oak Leaf Cluster
1985, 1986

Order of Military Medical Merit, 1985

United States Army Meritorious Service
Medal with First Oak Leaf Cluster
1986, 1988

United States Army Legion of Merit Medal
with First Oak Leaf Cluster
1990, 1993

PUBLICATIONS

Harmon, JW, Johnson, LF, Brown, GJ, Brewer, TG, Berenson, R, Burkhalter, E, and Hirata, R. Nissen Fundoplication for Benign Pediatric Esophageal Stricture. Presented at 10th Annual William Beaumont Gastrointestinal Symposium, 1980

Hallgren, SE and Brown, GJ. Intraoperative Endoscopy as a Diagnostic Tool Military Medicine, 151:400, 1986

Stokes, EW, Oliver, GA, Brown, GJ. Esophageal Cancer: Is Computed Tomography An Accurate Pre-Operative Staging Tool? (1986 AGA Abstract)

Stokes, EW, Washington, E and Brown, GJ. Palliative Neodymium:YAG Laser Therapy for Esophageal Carcinoma: Experience of a Military Medical Center. (1986 AGA Abstract)

Monahan, DW, Poston,WK and Brown, GJ. Mesenteric Panniculitis: Case Report and CT Findings. Southern Medical Journal, 82:782, 1989.

Brown, GJ. The U.S. Automobile Industry: Will It Survive Increasing International Competition. U.S. Army War College Publication, April 1991.

REFERENCES

Edward F. Coles, M.D., F.A.C.P.

[redacted]

Col. Lawrence F. Johnson, M.D., F.A.C.P.
Professor of Medicine
and Director Digestive Disease Division
Uniformed Services University of the Health Sciences
4301 Jones Bridge Road
Bethesda, Maryland 20814-4799
Tel: (301) 295-360-3606/3607

Col. Howard M. Rosen, M.D.
Chief, Gastroenterology Service
Dwight David Eisenhower Army Medical Center
Fort Gordon
Augusta, Georgia 30905
Tel: (404) 791-2157/7646

Melvin L. Butler, M.D., F.A.C.P., F.A.C.P.E.

[redacted]

John S. Gunther, M.D.

[redacted]

Ex 6