



**DEPARTMENT OF THE ARMY**  
NORTH ATLANTIC REGIONAL MEDICAL COMMAND  
AND  
WALTER REED ARMY MEDICAL CENTER  
6900 GEORGIA AVENUE NW  
WASHINGTON DC 20307-5000

REPLY TO  
ATTENTION OF:  
MCHL-HP

17 June 2008

DECOMMISSIONING FUNDING PLAN  
WALTER REED ARMY MEDICAL CENTER (WRAMC)

1. This Decommissioning Funding Plan supersedes the plan provided as previous correspondence dated 16 January 2008.
2. References.
  - a. WRAMC Broad Scope Materials License No. 08-01738-02. This plan addresses all WRAMC facilities and the use of NRC regulated byproduct materials as described in the license.
  - b. NUREG-1757, September 2003, Consolidated NMSS Decommissioning Guidance, Volume 3. Cost estimation tables provided in this plan closely follow the format of the tables in Appendix A, Section 3, NUREG-1757(Vol.3).
  - c. NUREG/CR-6477, October 2002, Revised Analyses of Decommissioning Reference Non-Fuel-Cycle Facilities. This plan assumes a decommissioning crew as presented in Section 2.6 (Decommissioning of Reference Facilities) and makes use of reference data from Section 5 (Decommission of Facility Components) of NUREG/CR-6477.
  - d. Mike S. Styvaert, Health Physicist, United States Army Joint Munitions Command, Cost Estimating Tools, 2007. Mr. Styvaert provided the current labor costs used in this plan.
3. The total estimated costs for decommissioning all WRAMC NRC licensed facilities as described in Reference 2a above is \$13,556,466. Detailed tables of our cost estimate are provided in the Appendix. The tables follow the format provided in Reference 2b, however, they exclude specific waste disposal calculations. Our estimate for waste disposal is based on conservative estimates of our amounts of building materials which may need to be disposed of as radioactive waste.
4. Adjusting cost estimates and associated funding levels will be by reanalysis upon occasion of broad scope license renewal.

MCHL-HP  
SUBJECT: WRAMC Decommissioning Funding Plan

17 June 2008

5. Point of contact for further information on this decommissioning funding plan is the undersigned, (202) 356-0060, mark.melanson@us.army.mil.

Encl, as



MARK A. MELANSON, Ph.D.  
COL, MS  
Chief, Health Physics  
WRAMC

**APPENDIX**

**for the**

**DECOMMISSIONING FUNDING PLAN  
WALTER REED ARMY MEDICAL CENTER (WRAMC)**

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- Table A.1. Number and Dimensions of Facility Components
- Table A.2. Planning and Preparation (work days)
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Facility Components (work days)
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- Table A.5. Total Work Days by Labor Category
- Table A.6. Worker Unit Cost Schedule
- Table A.7. Total Labor Costs by Major Decommissioning Task
- Table A.8. Total Decommissioning Costs

**Table A.1. Number and Dimensions of Facility Components**

	Fume Hood	Workbenches	Cabinets	Equipment	Sink/drains	Ceilings	Walls	Floor	Total	x 90 labs
Times (days)	1.5	1.7	0.4	0.6	0.3	0.03	0.03	0.04	4.6	414
Manpower (person-days)	5.3	6.1	1.6	2.1	1	0.13	0.13	0.15	16.51	1485.9
Costs for supercompaction (per \$1,000)	8	8.8	2.4	6	2.4	0.26	0.22	0.2	28.28	2545.2
<b>WRAMC specific data after taking all the assumptions into account.</b>										
	Fume Hood	Workbenches	Cabinets	Equipment	Sink/drains	Ceilings	Walls	Floor	Total	x 90 labs
Times (days)	3	6.8	2	0.6	0.3	3	2.7	4	22.4	2016
Times (day) for 90 labs	270	612	180	54	27	270	243	360	2016	
Manpower (person-days)	10.6	24.4	8	2.1	1	13	11.7	15	85.8	7722
Manpower (person-days) times 90 labs	954	2196	720	189	90	1170	1053	1350	7722	
Costs for supercompaction (per \$1,000)	16	35.2	12	6	2.4	26	19.8	20	137.4	13740

**Assumptions:**

1. Of roughly 250 laboratories, 90 will require decontamination and final status surveys.
2. Times (days) and Manpower (person- days) are averages of different types of laboratories.
3. Times (days) are the time it takes to decontaminate the item.
4. Manpower (person-days) is the time it takes to decontaminate and dismantle the item.
5. Each laboratory has 2 fume hoods, four benches and five cabinets.
6. Equipment consists of freezers/refrigerators each with dimensions 0.6m x 0.6m x 1.5m.
7. Sink drains have the measurements of 0.12m diameter & 10 m long.
8. The ceiling (one square meter) measurements are 100 square meters for each of the 250 laboratories.
9. The wall (one square meter) measurements are 90 square meters for each of the 250 laboratories.
10. The floor (one square meter) measurements are 100 square meters for each of the 250 laboratories.











**Table A.6. Worker Unit Cost Schedule**

	Field Supervisor	Principal	Principal Health Physicist	Health Physics Technicians	Administrative Assistant	Laborer
Hourly Rate	\$26.13	\$82.15	\$54.53	\$31.40	\$21.83	\$23.76
Hourly rate w/overhead	\$57.70	\$181.40	\$120.41	\$69.34	\$48.21	\$52.47
Salary w/Fringe (\$/year)	\$54,533.31	\$171,447.05	\$113,804.11	\$65,531.80	\$45,559.21	\$49,587.12
Overhead Rate (%)	120.82%	120.82%	120.82%	120.82%	120.82%	120.82%
Total Cost Per Year	\$120,420.46	\$378,589.38	\$251,302.24	\$144,707.32	\$100,603.85	\$109,498.28
Total Cost Per Work Day	\$461.60	\$1,451.23	\$963.31	\$554.70	\$385.64	\$419.73

**Calculations:**

Calculation of Salary: Hourly rate x 2087(number of work hours in a year)  
 Calculation of Total Cost per year: Salary x Overhead rate = Overhead  
 Salary w/Fringe + Overhead = Total Cost Per Year  
 Calculation of Total Cost Per Work Day: Hourly Rate w/overhead x 8 hours of work day

**WRAMC Assumes NUREG/CR-6477, Section 2.6, Decommissioning Crew**

	Field Supervisor	Principal	Principal Health Physicist	3 Health Physics Technicians	Administrative Assistant	Laborer
Hourly Rate	\$26.13	\$82.15	\$54.53	\$94.20	\$21.83	\$23.76
Hourly rate w/overhead	\$57.70	\$181.40	\$120.41	\$208.01	\$48.21	\$52.47
Salary w/Fringe (\$/year)	\$54,533.31	\$171,447.05	\$113,804.11	\$196,595.40	\$45,559.21	\$49,587.12
Overview Rate (%)	120.82%	120.82%	120.82%	120.82%	120.82%	120.82%
Total Cost Per Year	\$120,420.46	\$378,589.38	\$251,302.24	\$434,121.96	\$100,603.85	\$109,498.28
Total Cost Per Work Day	\$461.60	\$1,451.23	\$963.31	\$1,664.10	\$385.64	\$419.73

**Table A.7. Total Labor Costs by Major Decommissioning Task**

			Principal	Principal HP	3 HP Techs	Admin II	Field Supervisor	Total Costs
Planning and Preparation (Product of values at bottom of Tables A.2 and A.6)			195916	130047	1906	4821		332690
Decontamination and/or Dismantling of Radioactive Facility Components (Product of values at bottom of Tables A.3 and A.6)			29025	19266	2818823	0	1175695	4042809
Final Radiation Survey (Product of values at bottom of Tables A.4 and A.6)			50793	33716	13073	2314		99896
<b>Column Total</b>			<b>275734</b>	<b>183029</b>	<b>2833802</b>	<b>7134</b>	<b>1175695</b>	<b>4475394</b>

**Table A.8. Total Decommissioning Costs**

				Cost
Planning and Preparation				\$332,690
Decontamination and/or Dismantling of Radioactive Facility Components				\$4,042,809
Final Radiation Survey				\$99,896
Waste Cost (information provided by Rock Island Arsenal who handles the disposal of waste)				\$4,462,249
Miscellaneous Cost (supplies)				\$100,000
Subtotal of Cost of Decommissioning				\$9,037,644
50% Contingency				\$4,518,822
Total Cost of Decommissioning				\$13,556,466



DEPARTMENT OF THE ARMY  
WALTER REED ARMY MEDICAL CENTER  
6900 GEORGIA AVE NW  
WASHINGTON DC 20307-5001



May 6, 2008

Radiation Safety Officer

Nuclear Regulatory Commission, Region I  
Medical Licensing Division  
475 Allendale Road  
King of Prussia, Pennsylvania 19406-1415

Dear Sir or Madam:

Walter Reed Army Medical Center (WRAMC) uses radioactive material authorized by U.S. Nuclear Regulatory Commission (NRC) Byproduct Material License number 08-01738-02 with an expiration date of April 30, 2015.

We request to amend NRC license 08-01738-02 issued to WRAMC to add an additional Model for sealed sources under Item 7.L for Gd-153. Please add an additional Isotope Products Laboratories Model HEGL-0133. We have also recently disposed of our Strontium-90 eye applicator sources and would like to delete line E. from items 6,7 and 8. and also the RSO in line 11. E should be updated to Colonel Mark Melanson, Ph.D.

We also request expedited processing and please FAX a copy of the approved amendment to (202) 356-0086. A new camera system is being installed and the source is part of that system.

For any additional information, please contact the undersigned at (202) 356-0058.

Sincerely,

Mark A. Melanson, Ph.D., CHP  
Colonel, U.S. Army  
Radiation Safety Officer





DEPARTMENT OF THE ARMY  
WALTER REED ARMY MEDICAL CENTER  
6900 GEORGIA AVE NW  
WASHINGTON DC 20307-5001



April 11, 2008

Radiation Safety Officer

Nuclear Regulatory Commission, Region I  
Medical Licensing Division  
475 Allendale Road  
King of Prussia, Pennsylvania 19406-1415

Dear Ms. Lanzisera:

Walter Reed Army Medical Center (WRAMC) uses radioactive material authorized by U.S. Nuclear Regulatory Commission (NRC) Byproduct Material License number 08-01738-02 with an expiration date of April 30, 2015.

The following information is provided at your request (mail Control No. 142097):

Radium 226, sealed source for calibration of Dose Calibrator is in storage as a backup standard and has an activity of 10 mCi (no manufacturer information is available, we have leak test data back to April 1981 but believe source is older than that and earliest records list manufacturer as unknown)

Paladium-103, sealed sources (seeds) for patient treatment are currently provided by Theragenics Corporation, model 200

Fluorine-18, unsealed for Medical diagnosis, 1.0 Curie limit was requested because the limit under item 6.A is only 400 mCi per isotope and the number of unit doses, the short half-life and the timing of delivery by the supplier may in the future cause us to exceed that limit.

We also request expedited processing and please FAX a copy of the approved amendment to (202) 356-0086. We are still having problems with our irradiated mail reaching us in a timely and legible manner

For any additional information, please contact the undersigned at (202) 356-0058.

Sincerely,

Mark A. Melanson, Ph.D., CHP  
Colonel, U.S. Army  
Radiation Safety Officer



## Burton, David Mr WRAMC-Wash DC

---

**From:** Melanson, Mark A COL WRAMC-Wash DC  
**Sent:** Monday, April 07, 2008 3:37 PM  
**To:** Burton, David Mr WRAMC-Wash DC  
**Subject:** FW: Request for Additional information to support amendmentrequest (UNCLASSIFIED)

Classification: UNCLASSIFIED  
Caveats: NONE

Dave,

Please provide.

-----Original Message-----

**From:** Penny Lanzisera [mailto:LAN@nrc.gov]  
**Sent:** Monday, April 07, 2008 3:07 PM  
**To:** Melanson, Mark A COL WRAMC-Wash DC  
**Subject:** Request for Additional information to support amendmentrequest

L.N. 08-01738-02  
D.N. 030-01317  
Mail Control 142097  
Walter Reed Medical Center

Dr. Melanson, to support your request to add licensed material, please provide the following:

1. Exact activity and the manufacturer/model number (if available) for the Ra-226 source requested. Also, indicate whether this source is still in use or whether the source is in storage awaiting disposal.
2. The manufacturer and model number for the Pd-103 sources requested.

Additionally, please note that F-18 is already included on your license under Item 6.A.

Finally, in accordance with current NRC licensing guidance, please provide the manufacturer/model number and source/device activity for each of your irradiators.

You may reply to my attention via facsimile to 610-337-5269. Please reference Mail Control No. 142097 in your response. Sincerely,

Penny Lanzisera  
Senior HP  
US NRC, Region 1  
Classification: UNCLASSIFIED  
Caveats: NONE



**DEPARTMENT OF THE ARMY**  
**WALTER REED ARMY MEDICAL CENTER**  
6900 GEORGIA AVE NW  
WASHINGTON DC 20307-5001



February 29, 2008

Radiation Safety Officer

Nuclear Regulatory Commission, Region I  
Medical Licensing Division  
475 Allendale Road  
King of Prussia, Pennsylvania 19406-1415

Dear Sir or Madam:

Walter Reed Army Medical Center (WRAMC) uses radioactive material authorized by U.S. Nuclear Regulatory Commission (NRC) Byproduct Material License number 08-01738-02 with an expiration date of April 30, 2015.

We request to amend NRC license 08-01738-02 issued to WRAMC to add isotopes previously listed on our Army Radiation Authorization:

Radium 226, sealed source for calibration of Dose calibrator, 25 mCi limit (no manufacturer information is available)

Paladium-103, sealed sources (seeds) for patient treatment, 2.5 Curie limit

Fluorine-18, unsealed for Medical diagnosis, 1.0 Curie limit

We also request expedited processing and please FAX a copy of the approved amendment to (202) 356-0086. We are still having problems with our irradiated mail reaching us in a timely and legible manner.

For any additional information, please contact the undersigned at (202) 356-0058.

Sincerely,

Mark A. Melanson, Ph.D., CHP  
Colonel, U.S. Army  
Radiation Safety Officer



Printed on Recycled Paper



REPLY TO  
ATTENTION OF

**DEPARTMENT OF THE ARMY**  
WALTER REED ARMY MEDICAL CENTER  
6900 GEORGIA AVE NW  
WASHINGTON DC 20307-5001



February, 8 2008

Health Physics Office

Director, Office of Federal and State Materials and Environment Management Programs  
U.S. Nuclear Regulatory Commission  
Two White Flint North  
11545 Rockville Pike  
Rockville, Maryland 20852-2738  
Attention: Christian Einberg, Mail Stop T8E24

Dear Mr. Einberg,

I certify that Major Amy Susan King, Director of Safety, Walter Reed Army Institute of Research, is trustworthy and reliable, and, as such, is designated as the Trustworthy and Reliability Official for License Number: NR 08-01738-02, Docket Number: 030-01317.

Please direct inquiries regarding this correspondence to the undersigned at (202)356-0060.

Sincerely,

Mark A. Melanson, Ph.D., CHP  
Colonel, U.S. Army  
Radiation Safety Officer





**DEPARTMENT OF THE ARMY**  
NORTH ATLANTIC REGIONAL MEDICAL COMMAND  
AND  
WALTER REED ARMY MEDICAL CENTER  
6900 GEORGIA AVENUE NW  
WASHINGTON DC 20307-5000

REPLY TO  
ATTENTION OF:  
MCHL-HP

16 January 2008

**DECOMMISSIONING FUNDING PLAN**  
**WALTER REED ARMY MEDICAL CENTER (WRAMC)**

1. This Decommissioning Funding Plan supersedes the plan provided as previous correspondence dated 16 January 2004.
2. References.
  - a. WRAMC Broad Scope Materials License No. 08-01738-02. This plan addresses all WRAMC facilities and the use of NRC regulated byproduct materials as described in the license.
  - b. NUREG-1757, September 2003, Consolidated NMSS Decommissioning Guidance, Volume 3. Cost estimation tables provided in this plan closely follow the format of the tables in Appendix A, Section 3, NUREG-1757(Vol.3).
  - c. NUREG/CR-6477, October 2002, Revised Analyses of Decommissioning Reference Non-Fuel-Cycle Facilities. This plan assumes a decommissioning crew as presented in Section 2.6 (Decommissioning of Reference Facilities) and makes use of reference data from Section 5 (Decommission of Facility Components) of NUREG/CR-6477.
  - d. Mike S. Styvaert, Health Physicist, United States Army Joint Munitions Command, Cost Estimating Tools, 2007. Mr. Styvaert provided the current labor costs used in this plan.
3. The total estimated costs for decommissioning all WRAMC NRC licensed facilities as described in Reference 2a above is \$13,556,466. Detailed tables of our cost estimate are provided in the Appendix. The tables follow the format provided in Reference 2b, however, they exclude specific waste disposal calculations. Our estimate for waste disposal, provided below, is based on our recent experience with actual decommissioning procedures and costs.
4. Waste Disposal Costs. We assumed all major equipment would be decontaminated rather than shipped as waste and all decontamination liquids would be low enough in activity to allow discharge in the sanitary sewer. We recently decommissioned our largest facility whereby only 11 drums of waste were generated for burial. Conservatively assuming 50 drums (55 gallons each) of waste would be shipped as one truckload, the transportation costs would be \$3100. Container costs would be \$5500.

MCHL-HP  
SUBJECT: WRAMC Decommissioning Funding Plan

16 January 2008

Burial costs are estimated at \$187,500 (\$500 per cubic foot or \$3,750 per drum). The two irradiators we possess would be \$175,000 each to ship as waste. So our total waste costs are estimated at \$546,100.

5. Adjusting cost estimates and associated funding levels will be by reanalysis upon occasion of broad scope license renewal.

6. Point of contact for further information on this decommissioning funding plan is the undersigned, (202) 356-0060, mark.melanson@us.army.mil.



Encl, as

MARK A. MELANSON, Ph.D.  
COL, MS  
Chief, Health Physics  
WRAMC

**APPENDIX**

**for the**

**DECOMMISSIONING FUNDING PLAN  
WALTER REED ARMY MEDICAL CENTER (WRAMC)**

Contents:

- Table A.1. Number and Dimensions of Facility Components
- Table A.2. Planning and Preparation (work days)
- Table A.3. Decontamination and Dismantling of Radioactive  
Facility Components (work days)
- Table A.4. Final Radiation Survey (work days)
- Table A.5. Total Work Days by Labor Category
- Table A.6. Worker Unit Cost Schedule
- Table A.7. Total Labor Costs by Major Decommissioning Task
- Table A.8. Total Decommissioning Costs

**Table A.1. Number and Dimensions of Facility Components**

	Fume Hood	Workbenches	Cabinets	Equipment	Sink/drains	Ceilings	Walls	Floor	Total	x 90 labs
Times (days)	1.5	1.7	0.4	0.6	0.3	0.03	0.03	0.04	4.6	414
Manpower (person-days)	5.3	6.1	1.6	2.1	1	0.13	0.13	0.15	16.51	1485.9
Costs for supercompaction (per \$1,000)	8	8.8	2.4	6	2.4	0.26	0.22	0.2	28.28	2545.2
<b>WRAMC specific data after taking all the assumptions into account.</b>										
	Fume Hood	Workbenches	Cabinets	Equipment	Sink/drains	Ceilings	Walls	Floor	Total	x 90 labs
Times (days)	3	6.8	2	0.6	0.3	3	2.7	4	22.4	2016
Times (day) for 90 labs	270	612	180	54	27	270	243	360	2016	
Manpower (person-days)	10.6	24.4	8	2.1	1	13	11.7	15	85.8	7722
Manpower (person-days) times 90 labs	954	2196	720	189	90	1170	1053	1350	7722	
Costs for supercompaction (per \$1,000)	16	35.2	12	6	2.4	26	19.8	20	137.4	13740

**Assumptions:**

1. Of roughly 250 laboratories, 90 will require decontamination and final status surveys.
2. Times (days) and Manpower (person- days) are averages of different types of laboratories.
3. Times (days) are the time it takes to decontaminate the item.
4. Manpower (person-days) is the time it takes to decontaminate and dismantle the item.
5. Each laboratory has 2 fume hoods, four benches and five cabinets.
6. Equipment consists of freezers/refrigerators each with dimensions 0.6m x 0.6m x 1.5m.
7. Sink drains have the measurements of 0.12m diameter & 10 m long.
8. The ceiling (one square meter) measurements are 100 square meters for each of the 250 laboratories.
9. The wall (one square meter) measurements are 90 square meters for each of the 250 laboratories.
10. The floor (one square meter) measurements are 100 square meters for each of the 250 laboratories.

**Table A.2. Planning and Preparation (work days)**

	Principal	Principal HP	HP Tech	Admin II	Total Days
Preparation of Documentation for Regulatory Agencies	30	30		5	65
Submittal of Decommissioning Plan to NRC when required by 10 CFR 30.36 (g)(1), 40.42(g)(1) or 70.38(g)(1)	10	10		3	23
Development of Work Plan	60	60		3	123
Procurement of Special Equipment	10	10	1	1	22
Staff Training	5	5	0.5	0.5	11
Characterization of Radiological Condition of the Facility (including sampling, soil and tailing analysis)	20	20	2		42
Other					
<b>Column Totals</b>	<b>135</b>	<b>135</b>	<b>3.5</b>	<b>12.5</b>	<b>286</b>
<b>TOTAL number of days:</b>					<b>286</b>



**Table A.4. Final Radiation Survey (work days)**

		Principal	Principal HP	HP Tech	Admin II		Total Days
Final status survey measurements and data collection				20			20
Preparation of Documentation for Regulatory Agencies		16	16		3		35
Submittal of Decommissioning Report		5	5		1		11
Reanalysis (sampling and removing materials)		10	10	3			23
Amendment to Decommissioning Report		2	2		1		5
Staff Briefing		2	2	1	1		6
Other							
Column Totals		35	35	24	6		100
TOTAL number of days:							100

**Table A.5. Total Work Days by Labor Category**

	Principal	Principal HP	HP Tech	Admin II	Field Supervisor	Total Days
Planning and Preparation	135	135	3.5	12.5	0	286
Decontamination and/or Dismantling of Radioactive Facility Components	20	20	5175		2547	7762
Final Radiation Survey	35	35	24	6	0	100
Column Totals	190	190	5202.5	18.5	2547	8148
Total						8148



**Table A.6. Worker Unit Cost Schedule**

	Field Supervisor	Principal	Principal Health Physicist	Health Physics Technicians	Administrative Assistant	Laborer
Hourly Rate	\$26.13	\$82.15	\$54.53	\$31.40	\$21.83	\$23.76
Hourly rate w/overhead	\$57.70	\$181.40	\$120.41	\$69.34	\$48.21	\$52.47
Salary w/Fringe (\$/year)	\$54,533.31	\$171,447.05	\$113,804.11	\$65,531.80	\$45,559.21	\$49,587.12
Overhead Rate (%)	120.82%	120.82%	120.82%	120.82%	120.82%	120.82%
Total Cost Per Year	\$120,420.46	\$378,589.38	\$251,302.24	\$144,707.32	\$100,603.85	\$109,498.28
Total Cost Per Work Day	\$461.60	\$1,451.23	\$963.31	\$554.70	\$385.64	\$419.73

**Calculations:**

Calculation of Salary: Hourly rate x 2087(number of work hours in a year)  
 Calculation of Total Cost per year: Salary x Overhead rate = Overhead  
 Salary w/Fringe + Overhead = Total Cost Per Year  
 Calculation of Total Cost Per Work Day: Hourly Rate w/overhead x 8 hours of work day

**WRAMC Assumes NUREG/CR-6477, Section 2.6, Decommissioning Crew**

	Field Supervisor	Principal	Principal Health Physicist	3 Health Physics Technicians	Administrative Assistant	Laborer
Hourly Rate	\$26.13	\$82.15	\$54.53	\$94.20	\$21.83	\$23.76
Hourly rate w/overhead	\$57.70	\$181.40	\$120.41	\$208.01	\$48.21	\$52.47
Salary w/Fringe (\$/year)	\$54,533.31	\$171,447.05	\$113,804.11	\$196,595.40	\$45,559.21	\$49,587.12
Overview Rate (%)	120.82%	120.82%	120.82%	120.82%	120.82%	120.82%
Total Cost Per Year	\$120,420.46	\$378,589.38	\$251,302.24	\$434,121.96	\$100,603.85	\$109,498.28
Total Cost Per Work Day	\$461.60	\$1,451.23	\$963.31	\$1,664.10	\$385.64	\$419.73

**Table A.7. Total Labor Costs by Major Decommissioning Task**

			Principal	Principal HP	3 HP Techs	Admin II	Field Supervisor	Total Costs
Planning and Preparation (Product of values at bottom of Tables A.2 and A.6)			195916	130047	5824	4821		336608
Decontamination and/or Dismantling of Radioactive Facility Components (Product of values at bottom of Tables A.3 and A.6)			29025	19266	8611718	0	1175695	9835704
Final Radiation Survey (Product of values at bottom of Tables A.4 and A.6)			50793	33716	39938	2314		126761
Column Total			275734	183029	8657480	7134	1175695	10299072

**Table A.8. Total Decommissioning Costs**

				Cost
Planning and Preparation				\$336,608
Decontamination and/or Dismantling of Radioactive Facility Components				\$9,835,704
Final Radiation Survey				\$126,761
Waste Cost (information provided by Rock Island Arsenal who handles the disposal of waste)				\$546,100
Miscellaneous Cost				
Subtotal of Cost of Decommissioning				\$10,845,173
25% Contingency (mandatory)				\$2,711,293
Total Cost of Decommissioning				\$13,556,466



**DEPARTMENT OF THE ARMY**  
NORTH ATLANTIC REGIONAL MEDICAL COMMAND  
AND  
WALTER REED ARMY MEDICAL CENTER  
6900 GEORGIA AVENUE NW  
WASHINGTON DC 20307-5000

REPLY TO  
ATTENTION OF:


25 JAN 2008

Office of the Commanding General

STATEMENT OF INTENT

1. I, the Commander of the North Atlantic Regional Medical Command, am the official, duly appointed by Headquarters, Department of the Army, to represent my organization.
2. I submit this Statement of Intent for the Nuclear Regulatory Commission (NRC) License Number 08-01738-02, expiration date 30 April 2015.
3. The facilities included under this Statement of Intent are:
  - a. Walter Reed Army Medical Center, Washington, District of Columbia.
  - b. Armed Forces Institute of Pathology, Washington, District of Columbia.
  - c. Walter Reed Army Medical Center, Forest Glen Section and Annex, Silver Spring, Maryland.
  - d. Walter Reed Army Institute of Research, Forest Glen Section and Annex, Silver Spring, Maryland.
  - e. Walter Reed Army Institute of Research, Gillette Building, 270 Research Center, 1413 Research Blvd., Rockville, MD.
  - f. Walter Reed Army Institute of Research, Rickman Building, 13 Taft Court, Rockville, Maryland.
4. Based upon our Decommissioning Funding Plan, Compiled IAW Nuclear Regulatory Commission guidance, we currently estimate our total decommissioning cost to be \$13,556,500.
5. As Commanding General of the North Atlantic Regional Medical Command and designated licensee of our NRC licenses, I am providing this written assurance that sufficient funds for decommissioning will be secured when necessary for the eventual decommissioning of our licenses. The decommissioning of the Walter Reed Nuclear Regulatory Commission license has been authorized and funding has been earmarked as part of the Base Realignment and Closure (BRAC) of Walter Reed Army Medical Center in fiscal year 2011.

6. My points of contact for this action are COL Mark Melanson at (202) 356-0060, or Mr. Randy Treiber at (202) 356-1012, ext. 40640.



Carla Hawley-Bowland  
Major General, USA  
Commanding



**DEPARTMENT OF THE ARMY**  
NORTH ATLANTIC REGIONAL MEDICAL COMMAND  
AND  
WALTER REED ARMY MEDICAL CENTER  
6900 GEORGIA AVENUE NW  
WASHINGTON DC 20307-5000

REPLY TO  
ATTENTION OF:

25 JAN 2008

Office of the Commanding General

CERTIFICATION OF FINANCIAL ASSURANCE

Principal: Department of the Army, Walter Reed Army Medical Center, 6900 Georgia Avenue, NW, Washington, D.C. 20307-5001. Nuclear Regulatory Commission (NRC) License Number 08-01738-02, expiration date 30 April 2015, Walter Reed Army Medical Center, 6900 Georgia Ave., NW, Washington, D.C. 20307-5001.

Issued to: U.S. Nuclear Regulatory Commission

I certify that Walter Reed Army Medical Center is licensed to possess the following types of "sealed sources or plated foils with a half-life greater than 120 days licensed under 10 CFR Part 30," and "unsealed byproduct material with a half-life greater than 120 days licensed under 10 CFR Part 30," in the following amounts:


Isotope	Type of Material	Amount of Material
Atomic numbers 1 through 83	Any	400 Millicuries per radionuclide and 26 Curies total
Hydrogen 3	Any	2 Curies
Strontium 90	Sealed Sources (Isotope Products, Inc. Model BF 90 Ti Series [labeled as 67-850], Tracerlab Models RA-1A and RA-2A, Nuclear Enterprises Model 2503)	500 millicuries
Cesium 137	Sealed Sources (3M Health Physics Service Model Series 6500 [formerly 6D6C-CA])	2 Curies
Gadolinium 153	Sealed Sources (Isotope Products Laboratories Models NES-8424, NES-8412, and HEGL-0120, AEA Technology Model GD.LIN2)	6 Curies
Cesium 137	Sealed Sources (3M Health Physics Service Model Series 6500 [formerly 6D6C-CA])	50 millicuries

Americium 241	Sealed Source (Monsanto Agricultural Company Model 2704)	1.1 Curies
Plutonium 239	Any	0.01 millicuries
Americium 241	Any	0.01 millicuries
Depleted Uranium	Metal	400 kilograms
Cesium 137	Sealed Sources (J.L. Shepherd & Associates Model 6810; ORNL Model A-0096; Amersham Corporation (Revis Services Limited) Models CDC.PE1, CDC.PE2, CDC.PE3, (R6000), CDC.PE4 (R6010), CDC.PE5 (R6020), CDC.PE6 (R6030), CDC.PE7 (R6040), CDC.PE8 (R6050))	No single source to exceed the maximum activity specified in the certificate of registration issued by the U.S. Nuclear Regulatory Commission or an Agreement State
Cobalt 60	Sealed Sources (J.L. Shepherd & Associates Model 7810)	No single source to exceed the maximum activity specified in the certificate of registration issued by the U.S. Nuclear Regulatory Commission or an Agreement State

4. Based upon our Decommissioning Funding Plan, Compiled IAW Nuclear Regulatory Commission guidance, we currently estimate our total decommissioning cost to be \$13,556,500.

5. As Commanding General of the North Atlantic Regional Medical Command and designated licensee of our NRC licenses, I am providing this written assurance that sufficient funds for decommissioning will be secured when necessary for the eventual decommissioning as prescribed by 10 CFR Part 30. The decommissioning of the Walter Reed Nuclear Regulatory Commission License has been authorized and funding has been earmarked as part of the Base Realignment and Closure (BRAC) of Walter Reed Army Medical Center in fiscal year 2011.

6. My points of contact for this action are COL Mark Melanson at 202-356-0060, or Mr. Randy Treiber at 202-356-1012, ext. 40640.

  
 Carla Hawley-Bowland  
 Major General, USA  
 Commanding



REPLY TO  
ATTENTION OF

DEPARTMENT OF THE ARMY  
NORTH ATLANTIC REGIONAL MEDICAL COMMAND  
AND WALTER REED ARMY MEDICAL CENTER  
6900 GEORGIA AVENUE, NORTHWEST  
WASHINGTON, DC 20307-5001

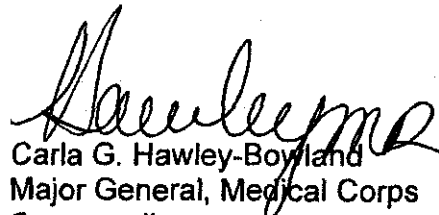
MCAT-HQ

11 December 2007

MEMORANDUM FOR SEE DISTRIBUTION

SUBJECT: Assumption of Command

1. Reference AR 600-20, Army Command Policy, paragraph 2-5c and AR 40-1.
2. The undersigned assumes command of the North Atlantic Regional Medical Command, Washington, DC 20307-5001 (W07TAA) and Walter Reed Army Medical Center, Washington, DC 20307-5001 (W2DHAA), effective 11 December 2007.

  
Carla G. Hawley-Boylard  
Major General, Medical Corps  
Commanding

DISTRIBUTION:

Cdr, WRHCS  
CofS, NARMC  
SGS, NARMC  
CSM, NARMC  
Cdr, MCB  
Cdr, WTB  
Cdr, NARVC  
Cdr, NARDC  
ACSPER  
ACSRM  
ACSIM  
ACSOPS  
ACSCLINOPS  
ACSLA  
Cdr, Garrison  
IR  
CPO  
EEO

Chaplain  
IG  
PAO  
CJA  
MPRJ





UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
REGION I  
475 ALLENDALE ROAD  
KING OF PRUSSIA, PENNSYLVANIA 19406-1415

October 15, 2007

Docket No. 03001317  
Control No. 138212

License No. 08-01738-02

Thomas M. Fitzpatrick, MC  
Deputy Commander for Clinical Services  
Department of the Army  
Walter Reed Army Medical Center  
6900 Georgia Avenue NW  
Washington, DC 20307-5001

SUBJECT: DEPARTMENT OF THE ARMY, REQUEST FOR ADDITIONAL INFORMATION  
CONCERNING FINANCIAL ASSURANCE DOCUMENTS, CONTROL NO.  
138212

Dear COL Fitzpatrick:

This is in reference to audit finding associated with financial assurance for decommissioning for Nuclear Regulatory Commission License No. 08-01738-02. In order to continue our review, we need the following additional information:

1. There appears to have been no Certification of Financial Assurance submitted with you Financial Assurance documents. This document is needed as stated in NUREG-1757 Volume 3. Please submit a Certification of Financial Assurance, please follow closely the model on page A-23 of NUREG-1757, Volume 3.
2. Documentation was not included with your Statement of Intent that Major General Kiley has the authority to request and obtain decommissioning funds from the appropriate funding body when necessary. Please enclose the documentation that demonstrates he may sign the statement of intent.
3. Since it has been greater than three years since you decommissioning funding plan, please provide an updated cost estimate. Performing an update at least every three year is required by 10 CFR 30.35(e). If the updated estimate is greater than your current amount in the Statement of Intent then you will need to resubmit your financial instrument.

Current NRC regulations and guidance are included on the NRC's website at [www.nrc.gov](http://www.nrc.gov); select **Nuclear Materials; Medical, Academic, and Industrial Uses of Nuclear Material**; then **Regulations, Guidance, and Communications**. You may also obtain these documents by contacting the Government Printing Office (GPO) toll-free at 1-866-512-1800. The GPO is open from 7:00 a.m. to 8:00 p.m. EST, Monday through Friday (except Federal holidays).

We will continue our review upon receipt of this information. Please reply to my attention at the Region I Office and refer to Mail Control No. 138212. If you have any technical questions regarding this deficiency letter, please call me at (610) 337-5366.

T. Fitzpatrick, MC  
Department of the Army

2

Sincerely,

***Original signed by Dennis R. Lawyer***

Dennis R. Lawyer  
Health Physicist  
Commercial and R&D Branch  
Division of Nuclear Materials Safety

CC:  
COL Mark Melanson, Ph.D., Radiation Safety Officer



DEPARTMENT OF THE ARMY  
WALTER REED ARMY MEDICAL CENTER  
6900 GEORGIA AVE NW  
WASHINGTON DC 20307-5001



September 27, 2007

Radiation Safety Officer

Nuclear Regulatory Commission, Region I  
Medical Licensing Division  
475 Allendale Road  
King of Prussia, Pennsylvania 19406-1415

Dear Sir or Madam:

Walter Reed Army Medical Center (WRAMC) uses radioactive material authorized by U.S. Nuclear Regulatory Commission (NRC) Byproduct Material License number 08-01738-02 with an expiration date of April 30, 2015.

We request to amend NRC license 08-01738-02 issued to WRAMC to add an additional Model for sealed sources under Item 7.J for Gd-153. Please add an additional Isotope Products Laboratories Model NES-8412.

We also request expedited processing and please FAX a copy of the approved amendment to (202) 356-0086. A new camera system is being installed and the sources will not be shipped until the new amendment is supplied.

For any additional information, please contact the undersigned at (202) 356-0058.

Sincerely,

Mark A. Melanson, Ph.D., CHP  
Colonel, U.S. Army  
Radiation Safety Officer



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
REGION I  
475 ALLENDALE ROAD  
KING OF PRUSSIA, PENNSYLVANIA 19406-1415

February 8, 2007

Docket No. 03001317

License No. 08-01738-02

Colonel Charles Callahan, MC  
Deputy Commander for Clinical Services  
Department of the Army  
Walter Reed Army Medical Center  
6900 Georgia Avenue, NW  
Washington, DC 20307-5001

SUBJECT: INSPECTION 03001317/2007001, DEPARTMENT OF THE ARMY

Dear Colonel Callahan:

This letter forwards NRC Form 591, "Safety Inspection," indicating that no items of non-compliance were found during the above described inspection of your licensed activities. Please retain the form in your files. No acknowledgment of this letter is required. However, should you have any questions, we shall be pleased to discuss them with you.

Current NRC regulations are included on the NRC's website at [www.nrc.gov](http://www.nrc.gov); select **Nuclear Materials; Medical, Academic, and Industrial Uses of Nuclear Material**; then **Toolkit Index Page**. The current Enforcement Policy is included on the NRC's website at [www.nrc.gov](http://www.nrc.gov); select **What We Do, Enforcement**, then **Enforcement Policy**. Or you may obtain these documents by contacting the Government Printing Office (GPO) toll-free at 1-888-293-6498. The GPO is open from 7:00 a.m. to 8:00 p.m. EST, Monday through Friday (except Federal holidays).

Your cooperation with us is appreciated.

Sincerely,

**Original signed by Willie J. Lee**

Willie J. Lee  
Health Physicist  
Medical Branch  
Division of Nuclear Materials Safety

Enclosure:  
NRC Form 591

cc:  
LTC Mark Melanson, Ph.D., Radiation Safety Officer

Official Use Only - Security-Related Information

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UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
REGION I  
475 ALLENDALE ROAD  
KING OF PRUSSIA, PENNSYLVANIA 19406-1415

September 20, 2006

Docket No. 03001317

License No. 08-01738-02

COL Mark A. Melanson, Ph.D., MSC  
Department of the Army  
Walter Reed Army Medical Center  
Chief, Health Physics Office  
U.S. Army Radiological Advisory Medical Team  
Building 41, Room 38  
6900 Georgia Avenue NW  
Washington, DC 20307-5001

SUBJECT: INSPECTION 03001317/2006001, DEPARTMENT OF THE ARMY

Dear Colonel Melanson:

On Jul 20, 2006, Todd J. Jackson of this office conducted a security inspection at the above address of activities authorized by the above listed NRC license. The inspection was a review of your implementation of the Increased Controls associated with the Security Order (EA-05-090) dated November 14, 2005. This letter forwards NRC Form 591, "Safety Inspection," indicating that no items of non-compliance were found during the above described inspection of your licensed activities. Please retain the form in your files. No acknowledgment of this letter is required. However, should you have any questions, we shall be pleased to discuss them with you.

Current NRC regulations are included on the NRC's website at [www.nrc.gov](http://www.nrc.gov); select **Nuclear Materials; Medical, Academic, and Industrial Uses of Nuclear Material**; then **Toolkit Index Page**. The current Enforcement Policy is included on the NRC's website at [www.nrc.gov](http://www.nrc.gov); select **What We Do, Enforcement**, then **Enforcement Policy**. Or you may obtain these documents by contacting the Government Printing Office (GPO) toll-free at 1-888-293-6498. The GPO is open from 7:00 a.m. to 8:00 p.m. EST, Monday through Friday (except Federal holidays).

This letter and enclosed NRC Form 591M Part 1 contain Security Related Information and will be withheld from public disclosure by the NRC and must be protected from unauthorized disclosure in accordance with Section IC 6 of Attachment B to the Security Order. Security Related Information is also discussed in Regulatory Information Summary (RIS) 2005-31, "Control of Security - Related Sensitive Unclassified Non-Safeguards Information..." (ML053480073) which is available on the NRC web site, [www.nrc.gov](http://www.nrc.gov), select **Electronic**

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Official Use Only - Security-Related Information

M. Melanson  
Department of the Army

2

**Reading Room; All collections; Generic Communications; Regulatory Issue  
Summaries; 2005;RIS-05-031.**

Your cooperation with us is appreciated.

Sincerely,



John D. Kinneman, Chief  
Materials Security and Industrial Branch  
Division of Nuclear Materials Safety

Enclosure:  
NRC Form 591

**Official Use Only - Security-Related Information**

**NRC FORM 591M PART 1**  
(10-2003)  
10 CFR 2.201

U.S. NUCLEAR REGULATORY COMMISSION

**SAFETY INSPECTION REPORT AND COMPLIANCE INSPECTION**

<b>1. LICENSEE/LOCATION INSPECTED</b> Department of the Army Walter Reed Army Medical Center 6900 Georgia Avenue, NW  REPORT Nos. 2006001	<b>2. NRC/REGIONAL OFFICE</b>  U.S. Nuclear Regulatory Commission Region I, 475 Allendale Road King of Prussia, Pennsylvania 19406-1415
--	---

<b>3. DOCKET NUMBER(S)</b> 03001317	<b>4. LICENSE NUMBER(S)</b> 08-01738-02	<b>5. DATE(S) OF INSPECTION</b> July 20, 2006
--	--	--

**LICENSEE:**

The inspection was an examination of the activities conducted under your license as they relate to radiation safety and to compliance with the Nuclear Regulatory Commission (NRC) rules and regulations and the conditions of your license. The inspection consisted of selective examinations of procedures and representative records, interviews with personnel, and observations by the inspector. The inspection findings are as follows:

1. Based on the inspection findings, no violations were identified.

2. Previous violation(s) closed

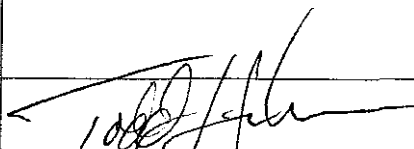
3. The violation(s), specifically described to you by the inspector as non-cited violations, are not being cited because they were self-identified, non-repetitive, and corrective action was or is being taken, and the remaining criteria in the NRC Enforcement Policy, NUREG-1600, to exercise discretion, were satisfied.

Non-Cited Violation(s) was/were discussed involving the following requirement(s) and Corrective Action(s):

4. During this inspection certain of your activities, as described below and/or attached, were in violation of NRC requirements and are being cited. This form is a NOTICE OF VIOLATION, which may be subject to posting in accordance with 10 CFR 19.11.

**Licensee's Statement of Corrective Actions for Item 4, above.**

I hereby state that, within 30 days, the actions described by me to the inspector will be taken to correct the violations identified. This statement of corrective actions is made in accordance with the requirements of 10 CFR 2.201 (corrective steps already taken, corrective steps which will be taken, date when full compliance will be achieved). I understand that no further written response to NRC will be required, unless specifically requested.

Title	Printed Name	Signature	Date
LICENSEE'S REPRESENTATIVE			
NRC INSPECTOR	Todd J. Jackson, CHP		8/17/2006

**Official Use Only - Security-Related Information**

Non-Public

Sensitive



DEPARTMENT OF THE ARMY  
NORTH ATLANTIC REGIONAL MEDICAL COMMAND  
AND  
WALTER REED ARMY MEDICAL CENTER  
6900 GEORGIA AVENUE NW  
WASHINGTON DC 20307-5000



February 1, 2006

Radiation Safety Officer

Director, Office of Nuclear Material Safety and Safeguards  
U. S. Nuclear Regulatory Commission  
Two White Flint North  
11545 Rockville Pike  
Rockville, MD 20852-2738  
ATTN: Ernesto Quinones, Mail Stop T8F3

Dear Sir:

We have reviewed the NRC's document for "ISSUANCE OF ORDER FOR INCREASED CONTROLS FOR CERTAIN RADIOACTIVE MATERIAL LICENSEES" and have concluded that it does apply to our licensed activities.

We will immediately implement the additional controls to supplement existing regulatory requirements, except for the need for constant surveillance of the sources. Within the next 18 months, the room in question will be outfitted with BMS door locks and infrared sensors inside to detect motion. This area will also be on the facility access control card reading system. The security office will code badges for authorized individuals to have access to this area. No one without authorization will be authorized access. Additionally, the facility has armed guards on the premises that will respond to any setting off of the alarms.

The sources in question are dry cell irradiators that include thousands of pounds of shielding material. Currently, the sources are in a locked room with limited access to trusted personnel who must sign for the room and irradiator keys at a separate location, after verification that they are authorized access. The building housing the irradiator room is a controlled access building guarded by armed security guards 24/7; access to the building is limited to workers with proper identification and all visitors are escorted. Additionally, the building is on a secured military installation where access is limited to authorized personnel who must present the proper identification prior to being allowed access.

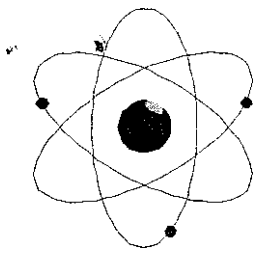
If you have any further questions please feel free to contact myself or my staff at (202)-356-0058.

Withhold From Public disclosure Under 10 CFR 2.390.

Sincerely,

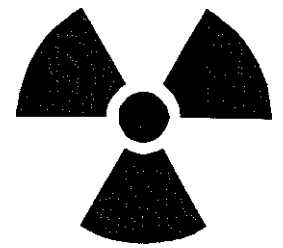
Mark A. Melanson, Ph.D., CHP  
Colonel, U.S. Army  
Radiation Safety Officer



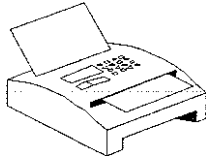


# Health Physics Office

Walter Reed Army Medical Center  
6900 Georgia Ave., Northwest  
Building 41, Room 38  
Washington, D.C. 20307-5001



Voice (202) 356-0058/0062 DSN: 642-0058



FAX (202) 356-0086

## Facsimile Cover Sheet

TO:

FROM:

Director, Office of Nuclear Material  
Safety and Safeguards U.S. NRC  
Two White Flint North  
Attn: Ernesto Quinones Mail Stop T8F3

David Burton  
Chief, License Support Branch  
WRAMC, HPO  
E-Mail:  
david.burton.1@NA.amedd.army.mil

REMARKS:



Mr. Quinones,

1 February 2006

Enclosed is our response to "ISSUANCE OF ORDER FOR INCREASED  
CONTROLS FOR CERTAIN RADIOACTIVE MATERIALS LICENSEES".

Thank You,

David Burton  
WRAMC, Health Physics

Attention: Do not process, store or transmit classified information on unsecured telecommunications systems. Official DoD telecommunications systems, including facsimile machines, are subject to monitoring for telecommunications security purposes at all times. Use of this system constitutes consent to telecommunications security monitoring.

COVER SHEET PLUS 1 PAGES

LAST TRANSACTION REPORT FOR HP FAX-700 SERIES

VERSION: 01.03

FAX NAME: WRAMC HPO  
FAX NUMBER: 202 356 0086

DATE: 01-FEB-06  
TIME: 15:20

DATE	TIME	REMOTE FAX NAME AND NUMBER	DURATION	PG	RESULT	DIAGNOSTIC
01-FEB	15:18 S	993014155369	0:01:55	2	OK	6A384010009E

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S=FAX SENT  
I=POLL IN(FAX RECEIVED)  
O=POLLED OUT(FAX SENT)

TO PRINT THIS REPORT AUTOMATICALLY, SELECT AUTOMATIC REPORTS IN THE SETTINGS MENU.  
TO PRINT MANUALLY, PRESS THE REPORT/SPACE BUTTON, THEN PRESS ENTER.



UNITED STATES  
NUCLEAR REGULATORY COMMISSION

WASHINGTON, D.C. 20555-0001

September 27, 2005

IMPORTANT NOTICE

TO: FEDERAL AGENCY LICENSEES, APPLICANTS, AND CERTIFICATE  
HOLDERS

SUBJECT: ASSESSMENT OF FEES FOR SPECIFIC SERVICES PROVIDED BY THE NRC

This notice is to inform you that the Nuclear Regulatory Commission (NRC) plans to begin assessing fees for specific services provided by the NRC to any Federal government agency which applies to the NRC for, or is issued by the NRC, a license or certificate. I am notifying you of this plan because you have, in the past, applied for a new NRC license or an amendment to an existing import/export license, or registered a generally licensed device with the NRC. The NRC plans to assess application or registration fees for new requests for these types of NRC services for Federal agencies beginning in late July 2006.

The NRC's authority to assess fees to Federal agencies for specific services was established by the Energy Policy Act of 2005 (P.L. 109-58, Section 623). The NRC plans to implement this new authority through a notice and comment revision to 10 CFR Part 170 published in the *Federal Register*. The NRC plans to publish the proposed rule in February 2006, and the final rule in May 2006. This rule would take effect sixty days from publication, meaning the NRC would assess fees for specific services provided to Federal agencies as of that date (estimated July 2006). (Note the NRC currently has authority to charge 10 CFR Part 171 annual fees to Federal agencies, which is unaffected by the Energy Policy Act.)

The new authority provided by the Energy Policy Act will enhance the fairness and equity of the NRC's fee schedule. Title V of the Independent Offices Appropriation Act of 1952 authorizes Federal regulatory agencies to recover, to the fullest extent possible, the costs of services provided to identifiable recipients. The NRC currently recovers the costs of licensee-specific activities for non-Federal licensees, applicants, and certificate holders under 10 CFR Part 170, but was unable to assess these fees to Federal agencies until the Energy Policy Act. Because activities such as processing license applications provide a specific benefit to the recipient, the NRC believes it is fair and appropriate to recover these costs through Part 170 fees. This fee collection would help the NRC meet the requirements of the Omnibus Budget Reconciliation Act of 1990, as amended, to recover almost all of the NRC's budget through fees.

The NRC's current regulations at 10 CFR Part 170 can be found on the agency's website at: <http://www.nrc.gov/reading-rm/doc-collections/cfr/part170/>. The current flat fees for new license applications, import/export license amendments, and registrations for generally licensed devices are in 10 CFR 170.21 and 170.31. Note the NRC assesses fees for other specific

services provided under the full cost recovery provisions of 10 CFR 170.21 and 170.31, based on professional staff time and contractual support services expended; however, renewals and amendments for existing materials users licenses will not be assessed these fees because these costs are included in their 10 CFR Part 171 annual fees.

If you have any questions or need additional information regarding this matter, please contact William Blaney of my staff at 301-415-5092.

Sincerely,



Jesse L. Funches  
Chief Financial Officer



**DEPARTMENT OF THE ARMY**  
**NORTH ATLANTIC REGIONAL MEDICAL COMMAND**  
**AND**  
**WALTER REED ARMY MEDICAL CENTER**  
**6900 GEORGIA AVENUE NW**  
**WASHINGTON DC 20307-5000**



December 8, 2005

Radiation Safety Officer

Director, Office of Nuclear Material Safety and Safeguards  
U. S. Nuclear Regulatory Commission  
Washington, DC 20555

Dear Sir:

We have just this week received the NRC's document for "ISSUANCE OF ORDER FOR INCREASED CONTROLS FOR CERTAIN RADIOACTIVE MATERIAL LICENSEES". Due to the short suspense of December 9, 2005 we request an extension of time in which to submit an answer or request a hearing.

In order to adequately review the requirements and determine if compliance with any of the requirements is unnecessary in our specific circumstances, more time will be needed. Determining a schedule for completion of each requirement described in Attachment B, including possible installation of alarms or surveillance equipment could realistically take months.

Withhold From Public disclosure Under 10 CFR 2.390.

Sincerely,

Mark A. Melanson  
Colonel, U.S. Army  
Radiation Safety Officer

LAST TRANSACTION REPORT FOR HP FAX-700 SERIES

VERSION: 01.03

FAX NAME: WRAMC HPO  
FAX NUMBER: 202 356 0086

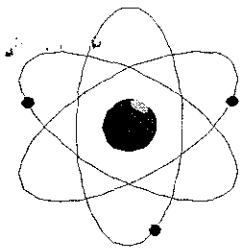
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TIME: 13:11

DATE	TIME	REMOTE FAX NAME AND NUMBER	DURATION	PG	RESULT	DIAGNOSTIC
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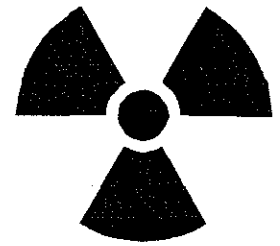
S=FAX SENT  
I=POLL IN(FAX RECEIVED)  
O=POLLED OUT(FAX SENT)

TO PRINT THIS REPORT AUTOMATICALLY, SELECT AUTOMATIC REPORTS IN THE SETTINGS MENU.  
TO PRINT MANUALLY, PRESS THE REPORT/SPACE BUTTON, THEN PRESS ENTER.

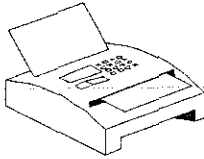


# Health Physics Office

Walter Reed Army Medical Center  
6900 Georgia Ave., Northwest  
Building 41, Room 38  
Washington, D.C. 20307-5001



Voice (202) 356-0058/0062 DSN: 642-0058



FAX (202) 356-0086

## Facsimile Cover Sheet

TO:

FROM:

Director  
Office of Nuclear Material Safety and  
Safeguards  
U.S. Nuclear Regulatory Commission

David Burton  
Chief, License Support Branch  
WRAMC, HPO  
E-Mail:  
david.burton.1@NA.amedd.army.mil

REMARKS:



Mr. Strosnider,

8 December 2005

Here is a request from Walter Reed Army Medical Center for an extension on the deadline to respond regarding "Issuance of Order for Increased Controls for Certain Radioactive Material Licensees". The POC for this action is the undersigned at (202) 356-0062.

Thank You,

David Burton  
WRAMC, Health Physics

Attention: Do not process, store or transmit classified information on unsecured telecommunications systems. Official DoD telecommunications systems, including facsimile machines, are subject to monitoring for telecommunications security purposes at all times. Use of this system constitutes consent to telecommunications security monitoring.

COVER SHEET PLUS 1 PAGE

**SAFETY INSPECTION REPORT AND COMPLIANCE INSPECTION**

1. LICENSEE/LOCATION INSPECTED: <i>Department of the Army Walter Reed Army Medical Center Washington, DC</i>		2. NRC/REGIONAL OFFICE <b>REGION I US NUCLEAR REGULATORY COMMISSION 475 ALLENDALE ROAD KING OF PRUSSIA, PENNSYLVANIA 19406-1415</b>
REPORT <i>04-02</i>	3. DOCKET NUMBER(S) <i>30-01317</i>	4. LICENSEE NUMBER(S) <i>08-01738-02</i>
		5. DATE(S) OF INSPECTION <i>12/13-15/04</i>

**LICENSEE:**

The inspection was an examination of the activities conducted under your license as they relate to radiation safety and to compliance with the Nuclear Regulatory Commission (NRC) rules and regulations and the conditions of your license. The inspection consisted of selective examinations of procedures and representative records, interviews with personnel, and observations by the inspector. The inspection findings are as follows:

- 1. Based on the inspection findings, no violations were identified.
- 2. Previous violation(s) closed.
- 3. The violation(s), specifically described to you by the inspector as non-cited violations, are not being cited because they were self-identified, non-repetitive, and corrective action was or is being taken, and the remaining criteria in the NRC Enforcement Policy, NUREG-1600, to exercise discretion, were satisfied.

\_\_\_\_\_ Non-Cited Violation(s) was/were discussed involving the following requirement(s) and Corrective Action(s):

- 4. During this inspection certain of your activities, as described below and/or attached, were in violation of NRC requirements and are being cited. This form is a NOTICE OF VIOLATION, which may be subject to posting in accordance with 10 CFR 19.11.

(Violations and Corrective Actions)

**Licensee's Statement of Corrective Actions for Item 4, above.**

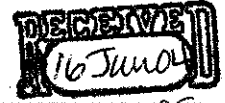
I hereby state that, within 30 days, the actions described by me to the inspector will be taken to correct the violations identified. This statement of corrective actions is made in accordance with the requirements of 10 CFR 2.201 (corrective steps already taken, corrective steps which will be taken, date when full compliance will be achieved). I understand that no further written response to NRC will be required, unless specifically requested.

Title	Printed Name	Signature	Date
LICENSEE'S REPRESENTATIVE			
NRC INSPECTOR	<i>Hector Bermudez</i>	<i>[Signature]</i>	<i>12/15/04</i>





UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
REGION I  
475 ALLENDALE ROAD  
KING OF PRUSSIA, PENNSYLVANIA 19406-1415



May 24, 2004

Docket No. 03001317  
Control No. 135047

License No. 08-01738-02

Colonel Thomas M. Fitzpatrick, MC  
Deputy Commander for Clinical Services  
Department of the Army  
Walter Reed Army Medical Center (WRAMC)  
ATTN: Commanding Officer  
6900 Georgia Avenue, N.W.  
Washington, DC 20307-5001

SUBJECT: DEPARTMENT OF THE ARMY, ACKNOWLEDGMENT OF TIMELY RECEIPT  
OF RENEWAL APPLICATION, CONTROL NO. 135047

Dear Colonel Fitzpatrick:

This is to acknowledge receipt of your application for renewal of the materials license identified above. Your application is deemed timely filed, and accordingly, the license will not expire until final action has been taken by this office.

Any correspondence regarding the renewal application should reference the control number specified above.

Sincerely,

A handwritten signature in cursive script that reads "Sheryl Villar".

Sheryl Villar, Team Leader  
Licensing Assistance Team  
Division of Nuclear Materials Safety

cc:  
LTC John Mercier, Ph.D., Radiation Safety Officer



REPLY TO  
ATTENTION OF

DEPARTMENT OF THE ARMY  
WALTER REED ARMY MEDICAL CENTER  
6900 GEORGIA AVE NW  
WASHINGTON DC 20307-5001



January 23, 2003

Executive Office

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

Dear Sir or Madam:

The Statement of Intent and Decommissioning Funding Plan to provide funds for the eventual decommissioning of Walter Reed Army Medical Center's Nuclear Regulatory Commission Licenses are provided as enclosures 1 and 2, respectively.

Sincerely,

Erik J. Glover  
Major, US Army  
Executive Officer

2 Enclosures

Copy Furnished:  
Headquarters, U.S. Army Medical Command, ATTN: POPM-SA (COL Eric Daxon)



**DEPARTMENT OF THE ARMY**  
NORTH ATLANTIC REGIONAL MEDICAL COMMAND  
AND  
WALTER REED ARMY MEDICAL CENTER  
6900 GEORGIA AVENUE NW  
WASHINGTON DC 20307-5000



REPLY TO  
ATTENTION OF:

Office of the  
Commanding General

JAN 23 2003

STATEMENT OF INTENT

1. I, the Commander of the North Atlantic Regional Medical Command, am the official, duly appointed by Headquarters, Department of the Army, to represent my organization.
2. I submit this Statement of Intent for the following Nuclear Regulatory Commission Licenses:
  - a. License Number 08-01738-02, expiration date 30 June 2004.
  - b. License Number 08-01738-03, expiration date 30 November 2011.
3. The facilities included under this Statement of Intent are:
  - a. Walter Reed Army Medical Center, Washington, District of Columbia.
  - b. Armed Forces Institute of Pathology, Washington, District of Columbia.
  - c. Walter Reed Army Medical Center, Forest Glen Section and Annex, Silver Spring, Maryland.
  - d. Walter Reed Army Institute of Research, Forest Glen Section and Annex, Silver Spring, Maryland.
  - e. Walter Reed Army Medical Center, Department of Pathology U.S. Army Medical Laboratory, Fort Meade, Maryland.
  - f. Walter Reed Army Institute of Research, Gillette Building, 270 Research Center, 1413 Research Blvd., Rockville, MD.
  - g. Walter Reed Army Institute of Research, Rickman Building, 13 Taft Court, Rockville, Maryland.
4. Based upon our Decommissioning Funding Plan, Compiled IAW Nuclear Regulatory Commission guidance, we currently estimate our total decommissioning cost to be \$12,266,500.

*Enc 1/1*



**DEPARTMENT OF THE ARMY**  
NORTH ATLANTIC REGIONAL MEDICAL COMMAND  
AND  
WALTER REED ARMY MEDICAL CENTER  
6900 GEORGIA AVENUE NW  
WASHINGTON DC 20307-5000



REPLY TO  
ATTENTION OF:  
**MCHL-HP**

**DECOMMISSIONING FUNDING PLAN**  
**WALTER REED ARMY MEDICAL CENTER**

**1. Basic Assumptions.**

**a. References:**

(1) Nuclear Regulatory Commission Guide 3.66, 1 June 1990, "Standard Format and Content of Financial Assurance Mechanisms Required for Decommissioning Under 10 CFR Parts 30, 40, 70, and 72.

(2) NUREG/CR-1754, 1 February 1981, "Technology, Safety, and Costs of Decommissioning Reference Non-Fuel Cycle Nuclear Facilities".

(3) NUREG-1727, September 2000, "NMSS Decommissioning Standard Review Plan".

**b. Reference 2 provides an example of a reference facility that is a suitable model for WRAMC and WRAIR:**

(1) The facility includes 5 work areas and includes an animal lab, radioisotope room, equipment room, counting room, and office. The area also includes rest rooms and hallways.

(2) The example determined estimated manpower requirements and costs for decommissioning this reference facility.

**c. We used the referenced facility as a model and followed the approach in Reference 2 with the following adjustments to account for WRAMC and WRAIR's actual situation:**

(1) We expanded the floor space by a factor of 100 to account for the actual dimensions of all WRAMC and WRAIR labs and use areas.

(2) We adjusted the costs using 2003 dollars, to include overhead, and waste costs provided by the AMC radioactive waste disposal office.

**2. Cost Estimate.**



**DEPARTMENT OF THE ARMY**  
NORTH ATLANTIC REGIONAL MEDICAL COMMAND  
AND  
WALTER REED ARMY MEDICAL CENTER  
6900 GEORGIA AVENUE NW  
WASHINGTON DC 20307-5000



REPLY TO  
ATTENTION OF:

Office of the  
Commanding General

JAN 23 2003

STATEMENT OF INTENT

1. I, the Commander of the North Atlantic Regional Medical Command, am the official, duly appointed by Headquarters, Department of the Army, to represent my organization.
2. I submit this Statement of Intent for the following Nuclear Regulatory Commission Licenses:
  - a. License Number 08-01738-02, expiration date 30 June 2004.
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  - c. Walter Reed Army Medical Center, Forest Glen Section and Annex, Silver Spring, Maryland.
  - d. Walter Reed Army Institute of Research, Forest Glen Section and Annex, Silver Spring, Maryland.
  - e. Walter Reed Army Medical Center, Department of Pathology U.S. Army Medical Laboratory, Fort Meade, Maryland.
  - f. Walter Reed Army Institute of Research, Gillette Building, 270 Research Center, 1413 Research Blvd., Rockville, MD.
  - g. Walter Reed Army Institute of Research, Rickman Building, 13 Taft Court, Rockville, Maryland.
4. Based upon our Decommissioning Funding Plan, Compiled IAW Nuclear Regulatory Commission guidance, we currently estimate our total decommissioning cost to be \$12,266,500.

*Enc 1/21*

5. As Commanding General of the North Atlantic Regional Medical Command and designated licensee of our NRC licenses, I am providing this written assurance that sufficient funds for decommissioning will be secured when necessary for the eventual decommissioning of our licenses.



KEVIN C. KILEY  
Major General, US Army  
Commanding



**DEPARTMENT OF THE ARMY**  
NORTH ATLANTIC REGIONAL MEDICAL COMMAND  
AND  
WALTER REED ARMY MEDICAL CENTER  
6900 GEORGIA AVENUE NW  
WASHINGTON DC 20307-5000



REPLY TO  
ATTENTION OF:  
**MCHL-HP**

**DECOMMISSIONING FUNDING PLAN**  
**WALTER REED ARMY MEDICAL CENTER**

**1. Basic Assumptions.**

**a. References:**

(1) Nuclear Regulatory Commission Guide 3.66, 1 June 1990, "Standard Format and Content of Financial Assurance Mechanisms Required for Decommissioning Under 10 CFR Parts 30, 40, 70, and 72.

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**b. Reference 2 provides an example of a reference facility that is a suitable model for WRAMC and WRAIR:**

(1) The facility includes 5 work areas and includes an animal lab, radioisotope room, equipment room, counting room, and office. The area also includes rest rooms and hallways.

(2) The example determined estimated manpower requirements and costs for decommissioning this reference facility.

**c. We used the referenced facility as a model and followed the approach in Reference 2 with the following adjustments to account for WRAMC and WRAIR's actual situation:**

(1) We expanded the floor space by a factor of 100 to account for the actual dimensions of all WRAMC and WRAIR labs and use areas.

(2) We adjusted the costs using 2003 dollars, to include overhead, and waste costs provided by the AMC radioactive waste disposal office.

**2. Cost Estimate.**

a. Planning and preparation of the facility and site for decommissioning. This includes 7,000 person-days in preparing documentation, performing radiological surveys, and work plan documentation: \$2,245,500

b. Decontamination and dismantling of radioactive facility components: This includes a total of 15,400 person-days of work in decontaminating fume hoods, lab benches, sink and drain lines, ductwork, other components, ceilings, walls, and floors: \$5,988,000

c. Final survey (3,600 person-days): \$974,400

d. 25 % Cost contingency (mandatory): \$2,302,000

e. **Waste disposal:** We assumed all major equipment would be decontaminated rather than shipped as waste and all decontamination liquids would be low enough in activity to allow discharge in the sanitary sewer. Using recent experience decommissioning our largest facility and only generating 11 drums of waste for burial, we modified the waste disposal assumptions. Assuming 50 drums (55 gallons each) of trash would be shipped as one truckload, the transportation costs would be \$1550. Container costs equal \$3750. Burial costs equal \$150,000 (\$400 per cubic foot or \$3,000 per drum). The three irradiators we possess would be \$150,000 each to ship as waste.

Total waste cost: \$605,300

f. 25 % Waste Contingency: \$151,300

**TOTAL COST FOR DECOMMISSIONING WRAMC AND WRAIR: \$12,266,500**

3. The method of assuring funds for decommissioning is by providing a Statement of Intent in accordance with 10 CFR 30.35 (f) (4).

4. Adjusting cost estimates and associated funding levels will be by reanalysis upon occasion of each broad scope license renewal.



JOHN R. MERCIER, Ph.D.  
LTC, MS  
Chief, Health Physics  
WRAMC





DEPARTMENT OF THE ARMY  
WALTER REED ARMY MEDICAL CENTER  
6900 GEORGIA AVE NW  
WASHINGTON DC 20307-5001

REPLY TO  
ATTENTION OF:

Office of the Deputy Commander  
for Clinical Services

U.S. Nuclear Regulatory Commission  
Region I  
ATTN: Nuclear Materials Safety Branch  
475 Allendale Road  
King of Prussia, PA 19406-1415

Dear Sir or Madam:

Enclosed is the Walter Reed Army Medical Center NRC broad scope license 10-year renewal application (Form 313 with attachments). Our current license, No. 08-01738-02, is set to expire on 30 June 2004. Hence, this application is hereby rendered within the 30-day timeliness rule.

Please note that the renewal application for the broad scope license includes provisions to absorb our irradiator license, No. 08-01738-03. Our intent is to consolidate both licenses.

Your point of contact for this Command is Lieutenant Colonel John Mercier, Ph.D., (202) 356-0058.

Sincerely,

A handwritten signature in black ink, appearing to read "Thomas M. Fitzpatrick".

Thomas M. Fitzpatrick  
Colonel, Medical Corps  
Deputy Commander for Clinical Services

Enclosure

Copy Furnished:  
Headquarters, US Army Medical Command, ATTN: POPM-SA, Fort Sam Houston, TX 78234.

NRC FORM 313  
(4-2004)  
10 CFR 30, 32, 33,  
34, 35, 36, 39, and 40

U.S. NUCLEAR REGULATORY COMMISSION

APPROVED BY OMB: NO. 3150-0120

EXPIRES: 10/31/2005

Estimated burden per response to comply with this mandatory collection request: 7 hours. Submittal of the application is necessary to determine that the applicant is qualified and that adequate procedures exist to protect the public health and safety. Send comments regarding burden estimate to the Records and FOIA/Privacy Services Branch (T-5 F52), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by internet e-mail to infocollects@nrc.gov, and to the Desk Officer, Office of Information and Regulatory Affairs, NEOB-10202, (3150-0120), Office of Management and Budget, Washington, DC 20503. If a means used to impose an information collection does not display a currently valid OMB control number, the NRC may not conduct or sponsor, and a person is not required to respond to, the information collection.

APPLICATION FOR MATERIAL LICENSE

INSTRUCTIONS: SEE THE APPROPRIATE LICENSE APPLICATION GUIDE FOR DETAILED INSTRUCTIONS FOR COMPLETING APPLICATION. SEND TWO COPIES OF THE ENTIRE COMPLETED APPLICATION TO THE NRC OFFICE SPECIFIED BELOW.

APPLICATION FOR DISTRIBUTION OF EXEMPT PRODUCTS FILE APPLICATIONS WITH:

IF YOU ARE LOCATED IN:

DIVISION OF INDUSTRIAL AND MEDICAL NUCLEAR SAFETY  
OFFICE OF NUCLEAR MATERIALS SAFETY AND SAFEGUARDS  
U.S. NUCLEAR REGULATORY COMMISSION  
WASHINGTON, DC 20555-0001

ILLINOIS, INDIANA, IOWA, MICHIGAN, MINNESOTA, MISSOURI, OHIO, OR WISCONSIN, SEND APPLICATIONS TO:

MATERIALS LICENSING BRANCH  
U.S. NUCLEAR REGULATORY COMMISSION, REGION III  
2443 WARRENVILLE ROAD, SUITE 210  
LISLE, IL 60532-4352

ALL OTHER PERSONS FILE APPLICATIONS AS FOLLOWS:

IF YOU ARE LOCATED IN:

ALABAMA, CONNECTICUT, DELAWARE, DISTRICT OF COLUMBIA, FLORIDA, GEORGIA, KENTUCKY, MAINE, MARYLAND, MASSACHUSETTS, MISSISSIPPI, NEW HAMPSHIRE, NEW JERSEY, NEW YORK, NORTH CAROLINA, PENNSYLVANIA, PUERTO RICO, RHODE ISLAND, SOUTH CAROLINA, TENNESSEE, VERMONT, VIRGINIA, VIRGIN ISLANDS, OR WEST VIRGINIA, SEND APPLICATIONS TO:

ALASKA, ARIZONA, ARKANSAS, CALIFORNIA, COLORADO, HAWAII, IDAHO, KANSAS, LOUISIANA, MONTANA, NEBRASKA, NEVADA, NEW MEXICO, NORTH DAKOTA, OKLAHOMA, OREGON, PACIFIC TRUST TERRITORIES, SOUTH DAKOTA, TEXAS, UTAH, WASHINGTON, OR WYOMING, SEND APPLICATIONS TO:

LICENSING ASSISTANCE TEAM  
DIVISION OF NUCLEAR MATERIALS SAFETY  
U.S. NUCLEAR REGULATORY COMMISSION, REGION I  
475 ALLENDALE ROAD  
KING OF PRUSSIA, PA 19406-1415

NUCLEAR MATERIALS LICENSING BRANCH  
U.S. NUCLEAR REGULATORY COMMISSION, REGION IV  
611 RYAN PLAZA DRIVE, SUITE 400  
ARLINGTON, TX 76011-4005

PERSONS LOCATED IN AGREEMENT STATES SEND APPLICATIONS TO THE U.S. NUCLEAR REGULATORY COMMISSION ONLY IF THEY WISH TO POSSESS AND USE LICENSED MATERIAL IN STATES SUBJECT TO U.S. NUCLEAR REGULATORY COMMISSION JURISDICTIONS.

1. THIS IS AN APPLICATION FOR (Check appropriate item)

- A. NEW LICENSE
- B. AMENDMENT TO LICENSE NUMBER
- C. RENEWAL OF LICENSE NUMBER 08-01738-02

2. NAME AND MAILING ADDRESS OF APPLICANT (Include ZIP code)

Department of The Army  
Walter Reed Army Medical Center  
Attn: Commanding Officer  
6900 Georgia Ave., NW  
Washington, DC 20307-5001

3. ADDRESS WHERE LICENSED MATERIAL WILL BE USED OR POSSESSED

SEE ITEM #3 ATTACHMENT

4. NAME OF PERSON TO BE CONTACTED ABOUT THIS APPLICATION

LTC John Mercier, Ph.D., RSO

TELEPHONE NUMBER

(202) 356-0058

SUBMIT ITEMS 5 THROUGH 11 ON 8-1/2 X 11" PAPER. THE TYPE AND SCOPE OF INFORMATION TO BE PROVIDED IS DESCRIBED IN THE LICENSE APPLICATION GUIDE.

5. RADIOACTIVE MATERIAL

a. Element and mass number; b. chemical and/or physical form; and c. maximum amount which will be possessed at any one time.

6. PURPOSE(S) FOR WHICH LICENSED MATERIAL WILL BE USED.

7. INDIVIDUAL(S) RESPONSIBLE FOR RADIATION SAFETY PROGRAM AND THEIR TRAINING EXPERIENCE.

8. TRAINING FOR INDIVIDUALS WORKING IN OR FREQUENTING RESTRICTED AREAS.

9. FACILITIES AND EQUIPMENT.

10. RADIATION SAFETY PROGRAM.

11. WASTE MANAGEMENT.

12. LICENSE FEES (See 10 CFR 170 and Section 170.31) 10CFR170(a)(5)  
FEE CATEGORY 7B AMOUNT ENCLOSED \$ EXEMPT

13. CERTIFICATION. (Must be completed by applicant) THE APPLICANT UNDERSTANDS THAT ALL STATEMENTS AND REPRESENTATIONS MADE IN THIS APPLICATION ARE BINDING UPON THE APPLICANT.

THE APPLICANT AND ANY OFFICIAL EXECUTING THIS CERTIFICATION ON BEHALF OF THE APPLICANT, NAMED IN ITEM 2, CERTIFY THAT THIS APPLICATION IS PREPARED IN CONFORMITY WITH TITLE 10, CODE OF FEDERAL REGULATIONS, PARTS 30, 32, 33, 34, 35, 36, 39, AND 40, AND THAT ALL INFORMATION CONTAINED HEREIN IS TRUE AND CORRECT TO THE BEST OF THEIR KNOWLEDGE AND BELIEF.

WARNING: 18 U.S.C. SECTION 1001 ACT OF JUNE 25, 1948 62 STAT. 749 MAKES IT A CRIMINAL OFFENSE TO MAKE A WILLFULLY FALSE STATEMENT OR REPRESENTATION TO ANY DEPARTMENT OR AGENCY OF THE UNITED STATES AS TO ANY MATTER WITHIN ITS JURISDICTION.

CERTIFYING OFFICER - TYPED/PRINTED NAME AND TITLE

Deputy CDR  
Thomas M. Fitzpatrick, M.D., FOR CLIN. SVCS.

SIGNATURE

DATE

21 May 04

FOR NRC USE ONLY

TYPE OF FEE	FEE LOG	FEE CATEGORY	AMOUNT RECEIVED	CHECK NUMBER	COMMENTS
			\$		
APPROVED BY				DATE	

**SAFETY INSPECTION REPORT AND COMPLIANCE INSPECTION**

1. LICENSEE/LOCATION INSPECTED: Department of the Army Walter Reed Army Medical Center Washington, D.C. 20307-5001		2. NRC/REGIONAL OFFICE  Region I 475 Allendale Road King of Prussia, PA 19406-1415	
REPORT NUMBER(S)      02-001			
3. DOCKET NUMBER(S) 030-01317, 030	4. LICENSEE/CERTIFICATE NUMBER(S) 08-01738-02, 030-06895	5. DATE(S) OF INSPECTION July 16-19, 2002	
6. INSPECTION PROCEDURES USED 87119/2800-032		7. INSPECTION FOCUS AREAS <small>2.01, 2.02, 2.03(a,b,c,d), 2.04, 2.05, 2.06(a,b), 2.07(a,b,c), 2.08(a,b,c,d), 2.09(a,b,c,d), 2.10(a,b,c,d,e), 2.11(a,b,c,d), 2.12(a,b,c,d,e), 2.13, 2.14, 2.15, 2.16, 2.17, 2.18, 2.19, 2.20, 2.1</small>	

**LICENSEE/CERTIFICATE HOLDER**

The inspection was an examination of the activities conducted under your license as they relate to radiation safety and to compliance with the Nuclear Regulatory Commission (NRC) rules and regulations and the conditions of your license/certificate. The inspection consisted of selective examinations of procedures and representative records, interviews with personnel, and observations by the inspector. The inspection findings are as follows:

- 1. Based on the inspection findings, no violations were identified.
- 2. Previous violation(s) closed.
- 3. The violation(s), specifically described to you by the inspector as non-cited violations, are not being cited because they were self-identified, non-repetitive, and corrective action was or is being taken, and the remaining criteria in the NRC Enforcement Policy, NUREG-1600, to exercise discretion, were satisfied.  
  
 \_\_\_\_\_ non-cited violation(s) were discussed involving the following requirement(s):  
 \_\_\_\_\_
- 4. During this inspection certain of your activities, as described below and/or attached, were in violation of NRC requirements and are being cited. This form is a NOTICE OF VIOLATION, which may be subject to posting in accordance with 10 CFR 19.11.

**STATEMENT OF CORRECTIVE ACTIONS**

I hereby state that, within 30 days, the actions described by me to the inspector will be taken to correct the violations identified. This statement of corrective actions is made in accordance with the requirements of 10 CFR 2.201 (corrective steps already taken, corrective steps which will be taken, date when full compliance will be achieved). I understand that no further written response to NRC will be required, unless specifically requested.

TITLE	PRINTED NAME	SIGNATURE	DATE
LICENSEE			
NRC INSPECTOR	TERESA HALL DARDEN / Richard McKinley	<i>Teresa Hall Darden</i>	7/19/02



**FILE COPY**

**DEPARTMENT OF THE ARMY**  
WALTER REED ARMY MEDICAL CENTER  
WALTER REED HEALTH CARE SYSTEM  
WASHINGTON, DC 20307-5001

April 12, 2001

Preventive Medicine Service

Nuclear Regulatory Commission, Region I  
Medical Licensing Division  
475 Allendale Road  
King of Prussia, Pennsylvania 19406-1415

Dear Sir or Madam:

Walter Reed Army Medical Center uses radioactive material authorized by U.S. Nuclear Regulatory Commission (NRC) Byproduct Material License number 08-01738-02 with an expiration date of June 30, 2004.

We request to amend NRC License 08-1738-02 to increase the maximum possession limit of  $^{192}\text{Ir}$  in section 8H to 6 curies. This increase in the maximum possession limit is to allow for the addition of Intravascular Brachytherapy procedures. The procedures will initially utilize the Cordis Checkmate system. Standard Operating Procedures will be developed and approved by the Radiation Control Committee prior to implementation of this procedure.

We also request to amend NRC License 08-1738-02 to increase the maximum possession limit  $^{153}\text{Gd}$  in section 8P to 2 curies per camera. This will allow for additional cameras in Nuclear Medicine.

For any additional information, please contact the undersigned at (202) 356-0058.

Sincerely,

William B. Johnson  
Colonel, U.S. Army  
Radiation Protection Officer

Copy Furnish:

Director, Proponency Office for Preventive Medicine - San Antonio,  
ATTN: MCPO-SA (COL Daxon), 2050 Worth Road, Ft. Sam Houston, TX  
78234-6000



UNITED STATES  
NUCLEAR REGULATORY COMMISSION

REGION I  
475 ALLENDALE ROAD  
KING OF PRUSSIA, PA 19406-1415

September 7, 2000

Docket No. 03001317  
Control No. 128416

License No. 08-01738-02

Colonel Michael A. Dunn  
Commander  
Department of The Army  
Walter Reed Army Medical Center  
Washington, DC 20307-5001

*MAT 29 Sep 00*

SUBJECT: DEPARTMENT OF THE ARMY, ISSUANCE OF LICENSE AMENDMENT,  
CONTROL NO. 128416

Dear Colonel Dunn:

This refers to your license amendment request dated July 12, 2000. 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, Licensing Assistance Team, (610) 337-5093 or 5239, so that we can provide appropriate corrections and answers.

Thank you for your cooperation.

Sincerely,

*Neelam Bhalla*

Neelam Bhalla  
Health Physicist  
Nuclear Materials Safety Branch 1  
Division of Nuclear Materials Safety

Enclosure:  
Amendment No. 72

cc:  
Colonel William B. Johnson, Radiation Safety Officer  
Col. Eric Daxon, USACHPPM, 2050  
Worth Road, Room 115  
Fort Sam Houston, Texas 78234-6010

**MATERIALS LICENSE**

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.

<p style="text-align: center;">Licensee</p> <p>1. Department of the Army Walter Reed Army Medical Center (WRAMC)</p> <p>2. Washington, D.C. 20307-5001</p>	<p>In accordance with the letter dated July 31, 2000,</p> <p>3. License number 08-01738-02 is amended in its entirety to read as follows:</p> <hr/> <p>4. Expiration date June 30, 2004</p> <hr/> <p>5. Docket No. 030-01317 Reference No.</p>
--	--

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. 1 curie
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

**MATERIALS LICENSE  
SUPPLEMENTARY SHEET**

License Number  
08-01738-02

Docket or Reference Number  
030-01317

Amendment No. 72

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
N. Strontium 90	N. Sealed sources	N. 500 millicuries
O. Cesium 137	O. Sealed sources (3M 6D6C-CA)	O. 2 curies
P. Gadolinium 153	P. Sealed sources	P. 2 curies
Q. Iodine 125	Q. Sealed sources (3M Company seeds)	Q. 1 curie
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
S. Cesium 137	S. Sealed sources	S. 1.2 curies
T. Cobalt 60	T. Sealed sources	T. 500 millicuries
U. Americium 241	U. Any	U. 100 microcuries
V. Americium 241	V. Sealed sources (Monsanto Model NRC-2704)	V. 20.5 curies
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 (3M 6D6C-CA)	AA. 50 millicuries
BB. Americium 241	BB. Sealed sources	BB. 200 millicuries
CC. Paladium 103	CC. Sealed sources	CC. 3 curies
DD. Uranium depleted in Uranium 235	DD. Plated Metal	DD. 400 Kilograms

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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 and development as defined in 10 CFR 30.4, including animal studies; instrument calibration; student instruction.
- DD. Shielding in linear accelerators.

**CONDITIONS**

10. Licensed material may be used only at the licensee's facilities located at the Walter Reed Army Medical Center, Washington, D. C.; WRAMC Forest Glen Section and Annex, Silver Spring, Maryland; U.S. Army Medical Laboratory, WRAMC Department of Pathology, 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, Colonel Dale K. Block, 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.
- 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 Colonel 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



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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

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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.
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."

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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
  - G. Letter dated December 6, 1996

For the U.S. Nuclear Regulatory Commission

Date September 7, 2000

By

Neelam Bhalla

Neelam Bhalla  
Nuclear Materials Safety Branch 1  
Division of Nuclear Materials Safety  
Region I  
King of Prussia, Pennsylvania 19406

36948925



UNITED STATES  
NUCLEAR REGULATORY COMMISSION

REGION I  
475 ALLENDALE ROAD  
KING OF PRUSSIA, PA 19406-1415

August 18, 2000

Docket No. 03001317

License No. 08-01738-02

Colonel Michael A. Dunn  
Commander  
Walter Reed Army Medical Center  
Washington, DC 20307-5001

SUBJECT: INSPECTION 03001317/2000001, WALTER REED ARMY MEDICAL CENTER,  
WASHINGTON, D.C.

Dear Colonel Dunn:

On July 11-13, 2000, Ms. Neelam Bhalla of this office conducted a safety inspection at the above address and facilities located at the Forest Glen Section and Annex, Silver Spring, Maryland, of activities authorized by the above listed NRC license. The inspection was an examination of your licensed activities as they relate to radiation safety and to compliance with the Commission's regulations and the license conditions. The inspection consisted of observations by the inspector, interviews with personnel, and a selected examination of representative records. The findings of the inspection were discussed with you and members of your organization at the conclusion of the inspection.

Additional information provided in the telephone conversation on August 4, 2000 between Colonel Johnson and David Burton of your organization, staff from the Army Center for Health Promotion and Preventive Medicine (CHPPM), and Ms. Marie Miller, Mr. Tom Thompson and Ms. Bhalla of this office was also examined as part of the inspection. The telephone conversation was in regard to the decommissioning of Buildings 500 and 506, located in the Forest Glen Section, Silver Spring, Maryland. The decommissioning of the buildings was performed by CHPPM in June 1999. Based on a review of your decommissioning records, Buildings 500 and 506 were released in accordance with the applicable regulatory requirements. Please note that all decommissioning records are required to be maintained until your license is terminated.

Within the scope of this inspection, no violations were identified.

In accordance with 10 CFR 2.790, a copy of this letter will be placed in the NRC Public Document Room and will be accessible from the NRC Web site at <http://www.nrc.gov/NRC/ADAMS/index.html>. No reply to this letter is required.

M. Dunn  
Walter Reed Army Medical Center

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Your cooperation with us is appreciated.

Sincerely,

***Original signed by Mohamed M. Shanbaky***

Mohamed M. Shanbaky, Chief  
Nuclear Materials Safety Branch 1  
Division of Nuclear Materials Safety

cc:  
Colonel William B. Johnson, Ph.D., Radiation Safety Officer  
District of Columbia  
State of Maryland



**DEPARTMENT OF THE ARMY**  
WALTER REED ARMY MEDICAL CENTER  
WALTER REED HEALTH CARE SYSTEM  
WASHINGTON, DC 20307-5001

July 12, 2000

Preventive Medicine Service

Nuclear Regulatory Commission, Region I  
Medical Licensing Division  
475 Alendale Road  
King of Prussia, Pennsylvania 19406-1415

Dear Sir or Madam:

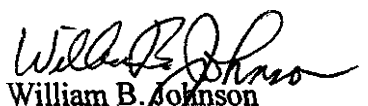
Walter Reed Army Medical Center (WRAMC) uses radioactive material authorized by U.S. Nuclear Regulatory Commission (NRC) Byproduct Material License number 08-01738-02 with an expiration date of June 30, 2004.

We request to amend NRC license 08-01738-02 issued to WRAMC to appoint Colonel Dale K. Block to replace Colonel Yancy Phillips as the Chairperson of the Radiation Control Committee (RCC). Colonel Block will be the Deputy Director for Clinical Services which is a senior level executive management position, one level below the Hospital Commander. The Radiation Protection Officer, Colonel William B. Johnson, has carefully reviewed the Colonel Block's curriculum vitae (enclosure 1) and recommends approval as Chairperson of the RCC.

We request to amend NRC license 08-01738-02 issued to WRAMC to delete the Cs-137 sealed source irradiator line items 6CC, 7CC, and 8CC from the license. The irradiator was transferred to J.L. Shepard & Associates and removed from building 516, Forest Glen Section on March 29, 2000 (enclosure 2).

For any additional information, please contact the undersigned at (202) 356-0058.

Sincerely,

  
William B. Johnson  
Colonel, U.S. Army  
Radiation Protection Officer

2 Enclosures

Copy Furnished:  
Proponency Office for Preventive Medicine, ATTN: COL Eric Daxon, USACHPPM, 2050  
Worth Road, Room 115, Ft. Sam Houston, Texas 78234-6010

CURRICULUM VITAE

**DALE K. BLOCK**

**Colonel, Medical Corps, United States Army**

**PERSONAL/FAMILY  
DATA:**

Born: 21 September 1944, Brooklyn, New York  
Wife: Sandra Gayle (Evans) Block  
Children: Kristen L., 1968-1984  
Josey S., 1974  
Steven E., 1977

**CIVILIAN  
EDUCATION:**

B.A., George Washington University, Washington, DC, 1966  
M.D., La Universidad Autonoma of Guadalajara, Guadalajara,  
Jalisco, Mexico, 1971

**PROFESSIONAL  
EDUCATION:**

Internship: Rotating, Dalhousie University Medical Center,  
Halifax, Nova Scotia, Canada, 1971-1972  
Residency: Internal Medicine, Dalhousie University Medical  
Center, Halifax, Nova Scotia, Canada, 1971-1974  
Internal Medicine, Tripler Army Medical Center, Honolulu,  
Hawaii, 1979-1980  
Fellowship: Gastroenterology, William Beaumont Army Medical  
Center, El Paso, Texas, 1980-1982

**MILITARY  
EDUCATION:**

Army Medical Department Basic Course, 1976  
Army Medical Department Advanced Course, 1978  
Command and General Staff College, 1986

**ASSIGNMENTS:**

OIC, USAHC, Fort Detrick, Frederick, MD 1974-1978  
Staff Gastroenterologist, USAMEDDAC, Fort Bragg, NC,  
1982-1984  
Chief, Department of Medicine USAMEDDAC, Fort Bragg, NC,  
1984-1986 Deputy Commander for Clinical Services, Director of  
Medical Education, USAMEDDAC, Fort Bragg, NC, 1986-1988  
Chief, Personal Readiness Division, Directorate of Professional  
Services; Consultant to The Surgeon General for Fitness Policy  
and Consultant to The Surgeon General for Alcohol and Drug  
Abuse, Department of Army, Falls Church, CA, 1988-1990  
Commander, USAMEDDAC, Fort George G. Meade, MD  
1990-1991  
Deputy Director for Quality Assurance, Office of the Assistant  
Secretary of Defense of Health Affairs (Professional Affairs and  
Quality Assurance) Washington, DC 20301-1200, 1991-1992

Deputy Director for Professional Affairs, (Professional Affairs and Quality Assurance) Washington, DC 20301-1200, 1992-1994  
Staff Physician, Dewitt Army Community Hospital, Fort Belvoir, VA 22060, July-September 1994

Commander, ADUSAHC Pentagon, Washington, DC 20310-5801 and Chief, Department of Primary Care and Community Medicine, Walter Reed Army Medical Center, Washington, DC 20307  
1994-Present

**ACADEMIC/  
PROFESSIONAL  
APPOINTMENTS:**

Clinical Instructor, School of Medicine, University of Hawaii, Honolulu, Hawaii, 1978-1980

Adjunct Professor, School of Pharmacy, University of the Pacific, Stockton, California, 1978-1980

Associate Professor of Medicine, Faculty of Medicine, Texas Tech University, Lubbock, TX, 1980-1982

Assistant Professor of Medicine, Uniformed Services University of the Health Sciences, Bethesda, MD, 1997-Present

**CLINICAL  
EXPERIENCE:**

General Practice, Ciudad Granja, Zapopan, Jalisco, Mexico, 1972-1973

**LICENSURE:**

Washington, DC, 1975-Present

**BOARD  
CERTIFICATION:**

American Board of Family Practice, 1978

American Board of Internal Medicine, 1981

**PUBLICATIONS:**

"Un Estudio Epidemiologico de Ciudad Granja, Zapopan, Jalisco, Mexico" Doctoral Thesis, 1973

"Singultus and the Mallory-Weiss Syndrome" Case Studies and Review of the Literature



# JL SHEPHERD & ASSOCIATES

1010 ARROYO AVE, SAN FERNANDO, CALIFORNIA 91340-1822

818-898-2361 FAX 818-361-8095

## CERTIFICATION OF SOURCE/DEVICE POSSESSION TRANSFER

This document is to certify that on or about March 30, 2000, J.L. Shepherd and Associates took possession of and title to (1) Each Eberline Instrument Corporation Model 8150-XXXAB, with approximately 120 Curies of Cesium-137(as of 1967), American Nuclear Type ANC 127 Source Capsule, from U.S. Army, Walter Reed Army Institute of Research, WRAMC, Basement of the Reactor Building, Forest Glen, MD 20907.

This transfer preparation took place under the direct supervision of J.L. Shepherd and Associates' engineer, under JLS&A'S State of California Radioactive Materials License and applicable 49CFR and CA Title 17 Transportation requirements, working under J.L. Shepherd and Associates, State of California Radioactive Materials License 1777-19, Amendment 78, Expiration Date 10/11/95, with state of California issued Letter of Timely Renewal, Dated September 21, 1995, in accordance with 10CFR40.51, 49CFR, all regulatory agency licensing and transportation requirements. J.L. Shepherd and Associates per the attached license, or our designated hot cell facility, is licensed to receive, possess and store this source/device.

David W. Banta

U.S. Army, Walter Reed Army Institute of Research

Dated: 29 Mar 2000

Mary F. Shepherd

Mary Shepherd  
Vice-President  
J.L. Shepherd and Associates

Dated: 3/15/00