

# APPLICATION FOR AUTHORIZATION TO USE RADIOACTIVE MATERIAL-- NON-HUMAN USE

(TYPE OR PRINT LEGIBLY)

## A. GENERAL INFORMATION

APPLICATION FOR: ☐ NEW AUTHORIZATION ☒ RENEWAL OF AUTHORIZATION ☐ AMENDMENT TO  
 AUTHORIZATION NUMBER 221 NUMBER       

APPLICANT'S NAME (LAST, FIRST, MI) Burton, David W. APPLICANT MAILING ADDRESS (INCLUDE ORGANIZATION)  
WRAMC, Health Physics Office  
Building 41, Room 35

TELEPHONE NUMBER: (202) 356-0062 FAX NUMBER: (202) 356-0086

## B. AUTHORIZED USERS (PLEASE LIST ON PAGE 2)

## C. RADIOACTIVITY USAGE LOCATION

LOCATIONS WHERE MATERIALS WILL BE USED (BUILDING AND ASSOCIATED ROOMS): Bldg. 41 room 39, 42, Bldg. 516,  
Bldg. 503 rooms GW04, GW05B, Bldg. 2 rooms 7544, 7545.

LOCATIONS WHERE MATERIALS WILL BE STORED (BUILDING AND ASSOCIATED ROOMS):  
Same as use locations (See above), Bldg. 503 room 1E24 (storage of LSC)

LOCATIONS OF RADIOACTIVE WASH SINKS (BUILDING AND ASSOCIATED ROOMS):  
Bldg. 516

## D. RADIOACTIVE MATERIAL DATA

RADIOISOTOPE	CHEMICAL AND/OR PHYSICAL FORM (SEALED AND/OR UNSEALED)	POSSESSION LIMIT	USE
Any radioisotope in any chemical or physical form and quantity currently authorized by WRAMC NRC Licenses and ARMY ARA Authorizations	NRC #08-01738-02 NRC General License #6158 ARA #08-01-97		Receipt, Storage, inspection, transport, distribution, packaging, shipment, and disposal. (Above uses require movement of radioactive material throughout WRAMC and all tenant activities).

## E. CERTIFICATE (THIS SECTION MUST BE COMPLETED BY APPLICANT)

I CERTIFY THAT THIS APPLICATION IS PREPARED IN CONFORMITY WITH WRAMC REGULATIONS AND THAT ALL  
 CONTAINED HEREIN, INCLUDING ANY SUPPLEMENTS ATTACHED HERETO, IS TRUE AND CORRECT TO THE BEST  
 OF MY KNOWLEDGE AND BELIEF.

I ACKNOWLEDGE MY RESPONSIBILITY AS PRINCIPAL  
 INVESTIGATOR AS DEFINED IN WRAMC REGULATIONS

David W. Burton  
 SIGNATURE OF PRINCIPAL INVESTIGATOR

24 Jan 05  
 DATE

ADMINISTRATIVE APPROVAL - CHIEF, DEPT. OR DIVISION OF  
 THE PRINCIPAL INVESTIGATOR

[Signature]  
 SIGNATURE OF CHIEF, DEPT. OR DIV.

24 Jan 05  
 DATE

## F. WRAMC RADIATION CONTROL COMMITTEE APPROVAL

APPROVED: <u>[Signature]</u>	APPROVED: <u>CD Retcher</u>	AUTHORIZATION NO. : <u>221</u>
HEALTH PHYSICS OFFICER, WRAMC LTC JOHN R. MERCIER, Ph.D. Chief, WRAMC Health Physics 6900 Georgia Ave., NW BLDG 41, Room 38 Washington, DC 20307-5001	CHAIRPERSON SUBCOMMITTEE FOR NON-HUMAN USE: RADIATION CONTROL COMMITTEE, WRAMC	EXPIRATION DATE: <u>Jan 08</u>

The Health Physics Office is  
 granting interim approval to this  
 application until the next  
 scheduled RCC Meeting on 3/2/05 on         
 Date

APPROVED BY RCC  
MAR 2 2005  
 DATE

**Walter Reed Army Medical Center**  
**PERMIT FOR USE OF IONIZING RADIATION**

**RADIATION P E R M I T # 221**

Expiration Date : January 31, 2008

**DAVID BURTON, Mr.** is authorized to receive, possess, and use the following licensed or registered source of radiation.

<u>1.Radionuclide</u>	<u>2.Form of Material</u>	<u>3. Maximum Activity</u>	<u>Unit</u>
Am-241	NRC-2704	1,000.000	mCi
Am-241	Sealed Sources	0.010	mCi
Ba-133	sealed sources	1.000	mCi
C-14	any	100.000	mCi
Ca-45	Any	100.000	mCi
Cd-109	Any	1.000	mCi
Cl-36	Any	10.000	mCi
Co-57	Any	100.000	mCi
Co-60	sealed sources	100.000	mCi
Cr-51	any	50.000	mCi
Cs-137	Any	50.000	mCi
Cs-137	3M 6D6C-CA	50.000	mCi
Cs-137	sealed sources	200.000	mCi
Eu-152	Any	0.100	mCi
F-18	Any	30.000	mCi
Fe-59	Any	10.000	mCi
Ga-67	Any	100.000	mCi
Gd-153	sealed sources	1,000.000	mCi
Ge-68	Any	1.000	mCi
H-3	any	1,000.000	mCi
I-123	Any	50.000	mCi
I-125	any	100.000	mCi
I-129	Any	1.000	mCi
I-131	any	800.000	mCi
In-111	Any	20.000	mCi
Ir-192	any	300.000	mCi
Mn-54	Any	1.000	mCi
Mo-99	Generator	1,000.000	mCi
Na-22	Any	50.000	mCi
Ni-63	sealed & foils	100.000	mCi
P-32	any	100.000	mCi
P-33	Any	50.000	mCi
Pd-103	Sealed Sources	1,000.000	mCi
Pu-239	CALIBRATION SOURCES	0.005	mCi
Ra-226	sealed sources	20.000	mCi
S-35	any	100.000	mCi
Sb-125	Any	5.000	mCi
<del>Se-46</del> <i>u - Nat</i>	<del>Any</del>	<del>10.000</del> <i>5.0</i>	<del>mCi</del> <i>ml</i>
Se-75	Any	10.000	mCi
Sm-153	Any	100.000	mCi
Sr-85	Any	10.000	mCi
Sr-89	Any	10.000	mCi
Sr-90	sealed sources	200.000	mCi
Tc-99m	any	100.000	mCi
Tl-201	Any	50.000	mCi

**Walter Reed Army Medical Center**  
**PERMIT FOR USE OF IONIZING RADIATION**

**RADIATION P E R M I T # 221**

Expiration Date : January 31, 2008

Xe-127	Any	200.000	mCi
Xe-133	any	150.000	mCi
Yb-169	Any	10.000	mCi

---

**4.Location(s)**

2	7544
2	7545
41	39
41	42
503	1E24
503	GW04
503	GW05B
516	LOWER
516	MAIN
516	MEZZAN
516	TRUCK

\_\_\_\_\_  
Radiation Safety Office

\_\_\_\_\_  
Date

WALTER REED ARMY MEDICAL CENTER  
**HEALTH PHYSICS OFFICE**

6900 GEORGIA AVENUE, NORTHWEST • BUILDING 41, ROOM 38 • WASHINGTON, D.C. 20307-5001 • VOICE: 202-356-0058 • FAX: 202-356-0086

# AUTHORIZATION AMENDMENT REVIEW

Date of Amendment Initiation: 27 Jan 05

Authorization Number: 221

Description of the Amendment: Renewal

Mark appropriately.

Required Items	Item Needed	Item Not needed	Item Completed	Comments
Requested Authorization Information (signatures, etc.)			ZMB	
Initial/Annual Training Form (WRAMC Form 538)			ZMB	
Training & Experience Form (WRAMC Form 1643)			NA	Same
Protocol Form (WRAMC Form 1644)			NA	Same
Radioisotope changes	<del>ASMB</del>	ZMB		Same
Pre-Room Survey conducted		ZMB		
Admin Hold Survey conducted		ZMB		
Final Survey conducted			NA	Drop 1H24 on H02
Bioassay Program enrollment		CD		
Dosimetry Program enrollment			TBR	DD Form 1952 received? <u>Y</u> or N
Dosimetry Program removal			TBR	
Instrumentation affected		CD		

## ADDITIONAL INFORMATION

### APPROVAL

License and Support Branch Chief: David W. Buck

Operations Branch Chief: CD Lute

*[Signature]*  
Chief, WRAMC Health Physics  
6900 Georgia Ave., NW  
Washington, D.C. 20307-5001

8. Medical Surveillance Program: Medical examinations are not routinely needed incident to occupational exposure to ionizing radiation.

9. Pregnancy Surveillance Program: When a pregnant woman is occupationally exposed to ionizing radiation, the embryo-fetus enters the radiation environment involuntarily. Therefore, the female employee is responsible for advising her employer of the fact that she is pregnant. The employee may declare her pregnancy to the Health Physics Office in writing or in person. At that time, the Pregnancy Surveillance Program would be implemented.

B. All personnel will acknowledge receiving and understanding the above information by signing and dating this form or WRAMC Form 538, Radiation Worker Briefing.

SIGN-IN FOR INITIAL/ANNUAL TRAINING: DATE: 20 January 2006

PERSONNEL	SIGNATURE
Brown, Nate	<u>Nate Brown</u>
Cox, Vanessa	<u>Vanessa Cox</u>
Culberson, Frederick	<u>Frederick Culberson</u>
Flores, John	<u>John Flores</u>
Fugich, Cassie	<u>Cassie Fugich</u>
Guerra, David	<u>Deployed Delete</u>
Kombet, Eric	<u>Eric Kombet</u>
Mavrogianis, Stanley	<u>Stanley Mavrogianis</u>
Melanson, Mark	<u>Mark Melanson</u>
Meyer, Ronn	<u>Ronn Meyer</u>
Pitcher, Christopher	<u>CD Pitcher</u>
Reyes, Cindy	<u>Delete</u>
Rezentes, Thomas	<u>Delete</u>
Robinson, Tricia	<u>Delete</u>
Rubel, Kevin	<u>Delete</u>
Thomas, Anthony R.	<u>Anthony Thomas</u>

APPROVED BY RCC

On MAR -1 2006

DATE

As Principal Investigator, I have insured that the above named individuals have received a briefing in accordance with 10 CFR Part 19.

Mr. David Burton (221)

David W. Burton 20 Jan 06  
SIGNATURE / DATE

\* Individuals indicated with an asterisk may work in or frequent my areas where radioisotopes are used or stored, but do not work with radioactive material under my authorization, and are not to be added to my radioactive material authorization.

Revised 1 July 1994

The Health Physics Office is granting interim approval to this application until the next scheduled RCC Meeting on 2/06  
Date

JAN 30 2006

WALTER REED ARMY MEDICAL CENTER  
**HEALTH PHYSICS OFFICE**

6900 GEORGIA AVENUE, NORTHWEST • BUILDING 4I, ROOM 38 • WASHINGTON, D.C. 20307-5001 • VOICE: 202-356-0058 • FAX: 202-356-0086

# AUTHORIZATION AMENDMENT REVIEW

Date of Amendment Initiation: 1/20/06

Authorization Number: 221

Description of the Amendment: Delete Workers

Mark appropriately.

Required Items	Item Needed	Item Not needed	Item Completed	Comments
Requested Authorization Information (signatures, etc.)			<i>JMB</i>	
Initial/Annual Training Form (WRAMC Form 538)		<input checked="" type="checkbox"/>		
Training & Experience Form (WRAMC Form 1643)		<input checked="" type="checkbox"/>		
Protocol Form (WRAMC Form 1644)		<input checked="" type="checkbox"/>		
Radioisotope changes		<input checked="" type="checkbox"/>		
Pre-Room Survey conducted		<input checked="" type="checkbox"/>		
Admin Hold Survey conducted		<input checked="" type="checkbox"/>		
Final Survey conducted		<input checked="" type="checkbox"/>		
Bioassay Program enrollment		<input checked="" type="checkbox"/>		
Dosimetry Program enrollment		<input checked="" type="checkbox"/>		DD Form 1952 received? Y or N
Dosimetry Program removal	<input checked="" type="checkbox"/>		<i>VC</i>	<i>gave dosimetry the list to delete</i>
Instrumentation affected				

## ADDITIONAL INFORMATION

Delete Guerra, Reyes, Rezendes, Rubel

## APPROVAL

License and Support Branch Chief: David W. Burton

Operations Branch Chief: *CD* *Pitcher*


30 June 2005

MEMORANDUM TO: Health Physics Office

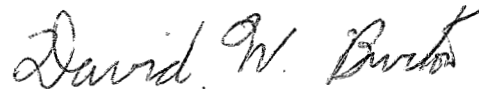
SUBJECT: Amendment to Authorization 221

1. Please delete PVT Daniel White and LTC John Mercier from authorization 221.
2. Please add SGT Ronn Meyer as a Staff worker and LTC Mark Melanson as a Co-Worker on authorization 221.

SEP 12



The Health Physics Office is  
granting interim approval to this  
application until the next NOV -- 2005  
scheduled RCC Meeting on \_\_\_\_\_  
Date



DAVID W. BURTON  
C, License Support Branch  
Health Physics Office

APPROVED BY RCC

DEC 18 2005

on \_\_\_\_\_

DATE

WALTER REED ARMY MEDICAL CENTER  
**HEALTH PHYSICS OFFICE**

6900 GEORGIA AVENUE, NORTHWEST • BUILDING 41, ROOM 38 • WASHINGTON, D.C. 20307-5001 • VOICE: 202-356-0058 • FAX: 202-356-0086

# AUTHORIZATION AMENDMENT REVIEW

Date of Amendment Initiation: 30 Jun 05

Authorization Number: 221

Description of the Amendment:

4319 Add LTC Melanson as Co-worker  
Add SGT Meyer as Staff worker  
Delete LTC Mercier, PVT White

Mark appropriately.

Required Items	Item Needed	Item Not needed	Item Completed	Comments
Requested Authorization Information (signatures, etc.)			<u>29MB</u>	
Initial/Annual Training Form (WRAMC Form 538)			<u>29MB</u>	
Training & Experience Form (WRAMC Form 1643)			<u>29MB</u>	<u>on file</u>
Protocol Form (WRAMC Form 1644)		<input checked="" type="checkbox"/>		
Radioisotope changes		<input checked="" type="checkbox"/>		
Pre-Room Survey conducted		<input checked="" type="checkbox"/>		
Admin Hold Survey conducted		<input checked="" type="checkbox"/>		
Final Survey conducted		<input checked="" type="checkbox"/>		
Bioassay Program enrollment		<input checked="" type="checkbox"/>		
Dosimetry Program enrollment	<input checked="" type="checkbox"/>		<u>TBRN</u>	DD Form 1952 received? <u>(Y)</u> or N
Dosimetry Program removal	<input checked="" type="checkbox"/>		<u>TBRN</u>	
Instrumentation affected		<input checked="" type="checkbox"/>		

## ADDITIONAL INFORMATION

## APPROVAL

Use and Support Branch Chief: David Bush

Operations Branch Chief: CD Fletcher



27 June 2005

MEMORANDUM TO: Health Physics Office

SUBJECT: Amendment to Authorization 221

1. Please delete SPC Mendoza Wallace as a Staff worker on authorization 221.
2. Please add SPC Anthony R. Thomas as a Staff worker on authorization 221.

*David W. Burton*

DAVID W. BURTON  
C, License Support Branch  
Health Physics Office

*Anthony R. Thomas, LTR # 3*

The Health Physics Office is  
granting interim approval to this  
application until the next  
scheduled RCC Meeting on 8/05

JUN 27 2005

Date

APPROVED BY RCC

SEP -5 2005

on \_\_\_\_\_  
DATE

WALTER REED ARMY MEDICAL CENTER  
**HEALTH PHYSICS OFFICE**

6900 GEORGIA AVENUE, NORTHWEST • BUILDING 41, ROOM 38 • WASHINGTON, D.C. 20307-5001 • VOICE: 202-356-0058 • FAX: 202-356-0086

# AUTHORIZATION AMENDMENT REVIEW

Date of Amendment Initiation: 27 Jun 05

Authorization Number: 221

Description of the Amendment:

delete Wallace  
Add Thomas # 4791

Mark appropriately.

Required Items	Item Needed	Item Not needed	Item Completed	Comments
Requested Authorization Information (signatures, etc.)			<i>JAWB</i>	
Initial/Annual Training Form (WRAMC Form 538)			<i>JAWB</i>	
Training & Experience Form (WRAMC Form 1643)		✓		
Protocol Form (WRAMC Form 1644)		✓		
Radioisotope changes		✓		
Pre-Room Survey conducted		✓		
Admin Hold Survey conducted		✓		
Final Survey conducted		✓		
Bioassay Program enrollment		✓		
Dosimetry Program enrollment		<i>TCR</i>	<i>TBR</i>	DD Form 1952 received? <u>Y</u> or N
Dosimetry Program removal		✓		
Instrumentation affected		✓		

## ADDITIONAL INFORMATION

### APPROVAL

Use and Support Branch Chief: David W. Burk

Operations Branch Chief: CD [Signature]

*not 20*

MCHL-HP (385-11m)

8 March 2005

MEMORANDUM TO: Health Physics Office

SUBJECT: Amendment to Authorization 221

1. Please add SGT David E. Guerra as a Staff worker on authorization 221. <sup>#4775</sup>

*David W. Burton*

DAVID W. BURTON  
C, License Support Branch  
Health Physics Office

The Health Physics Office is  
granting interim approval to this  
application until the next  
scheduled RCC Meeting on 5/2005  
Date

**APPROVED BY RCC**  
On MAY 28 2005  
DATE

*John R. Mercier* MAR 19 2005  
LTC JOHN R. MERCIER, Ph.D.  
Chief, WRAMC Health Physics  
6900 Georgia Ave., NW  
BLDG 41, Room 38  
Washington, DC 20307-5001

WALTER REED ARMY MEDICAL CENTER  
**HEALTH PHYSICS OFFICE**

6900 GEORGIA AVENUE, NORTHWEST • BUILDING 41, ROOM 38 • WASHINGTON, D.C. 20307-5001 • VOICE: 202-356-0058 • FAX: 202-356-0086

# AUTHORIZATION AMENDMENT REVIEW

Date of Amendment Initiation: 8 Mar 05

Authorization Number: 221

Description of the Amendment:

Add SGT Guerra

Mark appropriately.

Required Items	Item Needed	Item Not needed	Item Completed	Comments
Requested Authorization Information (signatures, etc.)			TBR	
Initial/Annual Training Form (WRAMC Form 538)			TBR	
Training & Experience Form (WRAMC Form 1643)		✓		
Protocol Form (WRAMC Form 1644)		✓		
Radioisotope changes		✓		
Pre-Room Survey conducted		✓		
Admin Hold Survey conducted		✓		
Final Survey conducted		✓		
Bioassay Program enrollment			TBR	
Dosimetry Program enrollment			TBR	DD Form 1952 received? Y or N
Dosimetry Program removal		✓		
Instrumentation affected		✓		

## ADDITIONAL INFORMATION

### APPROVAL

License and Support Branch Chief:

David W. Bush

Operations Branch Chief:

CD Patcher

16 December 2004

MEMORANDUM TO: Health Physics Office

SUBJECT: Amendment to Authorization 221


1. Please delete SPC Brian Michelli as a Staff worker on authorization 221.
2. Please add SGT Frederick Culberson and SPC Kevin Rubel as a Staff workers on authorization 221.



DAVID W. BURTON  
C, License Support Branch  
Health Physics Office

The Health Physics Office is  
granting interim approval to this  
application until the next  
scheduled RCC Meeting on 2/05  
Date

**APPROVED BY RCC**  
On MAR 12 2005  
DATE



DEC 27 2004  
LTC JOHN R. MERCIER, Ph.D.  
Chief, WRAMC Health Physics  
6900 Georgia Ave., NW  
BLDG 41, Room 38  
Washington, DC 20307-5001

WALTER REED ARMY MEDICAL CENTER  
**HEALTH PHYSICS OFFICE**

6900 GEORGIA AVENUE, NORTHWEST • BUILDING 41, ROOM 38 • WASHINGTON, D.C. 20307-5001 • VOICE: 202-356-0058 • FAX: 202-356-0086

# AUTHORIZATION AMENDMENT REVIEW

Date of Amendment Initiation: 16 Dec 04

Authorization Number: 221

Description of the Amendment:

Add 2 staff workers  
Rubel + C. / Peterson  
Remove Michelli

Mark appropriately.

Required Items	Item Needed	Item Not needed	Item Completed	Comments
Requested Authorization Information (signatures, etc.)			<i>ZMB</i>	
Initial/Annual Training Form (WRAMC Form 538)			<i>ZMB</i>	
Training & Experience Form (WRAMC Form 1643)		<i>ZMB</i>		
Protocol Form (WRAMC Form 1644)		<i>ZMB</i>		
Radioisotope changes		<i>ZMB</i>		
Pre-Room Survey conducted				
Admin Hold Survey conducted				
Final Survey conducted				
Bioassay Program enrollment				
Dosimetry Program enrollment			<i>ZMB</i>	DD Form 1952 received? <input checked="" type="radio"/> Y or N
Dosimetry Program removal			<i>ZMB</i>	
Instrumentation affected				

## ADDITIONAL INFORMATION

### APPROVAL

License and Support Branch Chief: David Rubel

Operations Branch Chief: CD Peterson

**Walter Reed Army Medical Center  
Non Sealed Receipts in Inventory by Licensee**

09/29/2004  
Decayed\_Inventory  
Page 1

RAM Receipt Id	Radio- nuclide	Chemical/Physical Form	Receipt Date	Receipt Activity	Fill In Current Activity	Decayed Inventory Activity (mCi)	Supplier's Name	Purchase Order Number
-------------------	-------------------	---------------------------	-----------------	---------------------	-----------------------------	-------------------------------------	--------------------	--------------------------

**BURTON, DAVID**

Authorization Number: 221

**221 AM-241 NRC-2704**

✓ 00848	Am-241 <i>241-Am-18</i>	<i>Bldg 41, Rm 412</i>	09/09/2003	9.537E+02 mCi	<i>same</i>	9.521E+02		
---------	----------------------------	------------------------	------------	---------------	-------------	-----------	--	--

**221 CD-109 Any**

✓ 0000623	Cd-109	Cd-109, 10uCi, Test Tube(S)	12/02/1999	1.049E-02 mCi	<i>same</i>	7.538E-04		DADA1598P2458
✓ 0052691	Cd-109	Cd-109, Co-57, Te-123m, Cr-51, <i>planckett</i>	07/30/2001	1.000E-03 mCi	<i>same</i>	1.776E-04		VISA

**221 CL-36 Any**

✓ 0000629	Cl-36	Cl-36, 99.23 nCi Test Tube(L)	12/02/1999	1.000E-04 mCi	<i>same</i>	9.999E-05		DADA1599P2458
-----------	-------	----------------------------------	------------	---------------	-------------	-----------	--	---------------

**221 CO-57 Any**

✓ 0000622	Co-57	Co-57, 10uCi, Test Tube(S)	12/02/1999	1.030E-02 mCi	<i>same</i>	1.133E-04		DADA1599P2458
-----------	-------	-------------------------------	------------	---------------	-------------	-----------	--	---------------

The principal user's/authorized worker's signature on this form indicates that a physical inventory of the radionuclides listed above has been performed.

Principal User's/Authorized Worker's Signature:

*[Handwritten Signature]*

Date:

*10/1/04*

**Walter Reed Army Medical Center  
Non Sealed Receipts in Inventory by Licensee**

09/29/2004  
Decayed\_Inventory  
Page 3

RAM Receipt Id	Radio- nuclide	Chemical/Physical Form	Receipt Date	Receipt Activity	Fill In Current Activity	Decayed Inventory Activity (mCi)	Supplier's Name	Purchase Order Number
-------------------	-------------------	---------------------------	-----------------	---------------------	-----------------------------	-------------------------------------	--------------------	--------------------------

**BURTON, DAVID**

**Authorization Number:** 221

**221 CO-57 Any**

✓ 00757	Co-57		06/15/1999	5.000E-02 mCi	57-Co-167	3.560E-04		
✓ 00758	Co-57	Spot marker	06/15/1999	5.000E-02 mCi	57-Co-168	3.560E-04		
✓ 03096	Co-57	Co-57 Type T Test Tube	09/30/2002	1.000E-03 mCi	SAME	1.545E-04	Isotope Product	WELREE02PP

**221 I-125 any**

✓ 53202	I-125	Iodine Standard	10/15/2002	1.000E-03 mCi	SAME	2.641E-07	Isotope Product	VISA
---------	-------	-----------------	------------	---------------	------	-----------	-----------------	------

The principal user's/authorized worker's signature on this form indicates that a physical inventory of the radionuclides listed above has been performed.

Principal User's/Authorized Worker's Signature: \_\_\_\_\_ Date: \_\_\_\_\_



**Walter Reed Army Medical Center  
Non Sealed Receipts in Inventory by Licensee**

09/29/2004  
Decayed\_Inventory  
Page 5

RAM Receipt Id	Radio- nuclide	Chemical/Physical Form	Receipt Date	Receipt Activity	Fill In Current Activity	Decayed Inventory Activity (mCi)	Supplier's Name	Purchase Order Number
-------------------	-------------------	---------------------------	-----------------	---------------------	-----------------------------	-------------------------------------	--------------------	--------------------------

**BURTON, DAVID**

Authorization Number: 221

221 ZN-65

Any

✓ 0000627	Zn-65	Zn-65, 11.19uCi, Test Tube(L)	12/02/1999	1.119E-02 mCi	<i>Same</i>	7.547E-05		DADA1599P2458
-----------	-------	----------------------------------	------------	---------------	-------------	-----------	--	---------------

The principal user's/authorized worker's signature on this form indicates that a physical inventory of the radionuclides listed above has been performed.

Principal User's/Authorized Worker's Signature:

*Karlsson*

Date:

*10/1/04*

**Walter Reed Army Medical Center  
Non Sealed Receipts in Inventory by Licensee**

07/27/2004  
Decayed\_Inventory  
Page 1

RAM Receipt Id	Radio- nuclide	Chemical/Physical Form	Receipt Date	Receipt Activity	Fill In Current Activity	Decayed Inventory Activity (mCi)	Supplier's Name	Purchase Order Number
-------------------	-------------------	---------------------------	-----------------	---------------------	-----------------------------	-------------------------------------	--------------------	--------------------------

**BURTON, DAVID**

**Authorization Number: 221**

✓ 00848	Am-241 <i>241- Am-18 Bkg+1, Rn 39</i>		09/09/2003	9.537E+02 mCi	<i>Same</i>	9.524E+02		
---------	--	--	------------	---------------	-------------	-----------	--	--

**221 CD-109 Any**

✓ 0000623	Cd-109	Cd-109, 10uCi, Test Tube(S)	12/02/1999	1.049E-02 mCi	<i>Same</i>	8.294E-04		DADA1598P2458
✓ 0052691	Cd-109	Cd-109, Co-57, Te-123m, Cr-51,	07/30/2001	1.000E-03 mCi	<i>Same</i>	1.955E-04		VISA

**221 CL-36 Any**

✓ 0000629	Cl-36	Cl-36, 99.23 nCi Test Tube(L)	12/02/1999	1.000E-04 mCi	<i>Same</i>	9.999E-05		DADA1599P2458
-----------	-------	-------------------------------	------------	---------------	-------------	-----------	--	---------------

**221 CO-57 Any**

✓ 0000622	Co-57	CO-57, 10uCi, Test Tube(S)	12/02/1999	1.030E-02 mCi	<i>Same</i>	1.334E-04		DADA1599P2458
✓ 0049118	Co-57 <i>57- Co-148</i>	Flood Source(S)	09/18/1995	1.500E+01 mCi	<i>Same</i>	3.820E-03		DADA1595D2547

The principal user's/authorized worker's signature on this form indicates that a physical inventory of the radionuclides listed above has been performed.

Principal User's/Authorized Worker's Signature: *Valerie Cox*

Date: *7/28/04*

**Walter Reed Army Medical Center  
Non Sealed Receipts in Inventory by Licensee**

07/27/2004  
Decayed\_Inventory  
Page 3

RAM Receipt Id	Radio- nuclide	Chemical/Physical Form	Receipt Date	Receipt Activity	Fill In Current Activity	Decayed Inventory Activity (mCi)	Supplier's Name	Purchase Order Number
-------------------	-------------------	---------------------------	-----------------	---------------------	-----------------------------	-------------------------------------	--------------------	--------------------------

**BURTON, DAVID**

Authorization Number: 221

**221 CO-57 Any**

✓ 00758	Co-57	Spot marker	06/15/1999	5.000E-02 mCi	57-Co-168	4.193E-04		
✓ 53096	Co-57	Co-57 Type T Test Tube	09/30/2002	1.000E-03 mCi	Same	1.820E-04	Isotope Product	WELREE02PP

**221 I-125 any**

✓ 53202	I-125	Iodine Standard	10/15/2002	1.000E-03 mCi	Same	5.522E-07	Isotope Product	VISA
---------	-------	-----------------	------------	---------------	------	-----------	-----------------	------

The principal user's/authorized worker's signature on this form indicates that a physical inventory of the radionuclides listed above has been performed.

Principal User's/Authorized Worker's Signature:

*Vanessa Cox*

Date:

*7/28/04*

**Walter Reed Army Medical Center  
Non Sealed Receipts in Inventory by Licensee**

07/27/2004  
Decayed\_Inventory  
Page 5

RAM Receipt Id	Radio- nuclide	Chemical/Physical Form	Receipt Date	Receipt Activity	Fill In Current Activity	Decayed Inventory Activity (mCi)	Supplier's Name	Purchase Order Number
-------------------	-------------------	---------------------------	-----------------	---------------------	-----------------------------	-------------------------------------	--------------------	--------------------------

BURTON, DAVID

Authorization Number: 221

221 ZN-65 Any

✓ 0000627	Zn-65	Zn-65, 11.19uCi, Test Tube(L)	12/02/1999	1.119E-02 mCi	SAME	9.049E-05		DADA1599P2458
-----------	-------	----------------------------------	------------	---------------	------	-----------	--	---------------

The principal user's/authorized worker's signature on this form indicates that a physical inventory of the radionuclides listed above has been performed.

Principal User's/Authorized Worker's Signature: \_\_\_\_\_

Date: \_\_\_\_\_

*Vanessa Col*  
7/28/04

**Walter Reed Army Medical Center  
Non Sealed Receipts in Inventory by Licensee**

04/07/2004  
Decayed\_Inventory  
Page 1

RAM Receipt Id	Radio- nuclide	Chemical/Physical Form	Receipt Date	Receipt Activity	Fill In Current Activity	Decayed Inventory Activity (mCi)	Supplier's Name	Purchase Order Number
-------------------	-------------------	---------------------------	-----------------	---------------------	-----------------------------	-------------------------------------	--------------------	--------------------------

**BURTON, DAVID**

Authorization Number: 221

✓ 00848	Am-241 <i>241 - Am-18 Rm 41, Rm 39</i>		09/09/2003	9.537E+02 mCi	<i>Same</i>	9.528E+02		
---------	---	--	------------	---------------	-------------	-----------	--	--

**221 CD-109 Any**

✓ 0000623	Cd-109	Cd-109, 10uCi, Test Tube(S)	12/02/1999	1.049E-02 mCi	<i>Same</i>	9.789E-04		DADA1598P2458
✓ 0052691	Cd-109	Cd-109, Co-57, Te-123m, Cr-51,	07/30/2001	1.000E-03 mCi	<i>Same</i>	2.307E-04		VISA

**221 CL-36 Any**

✓ 0000629	Cl-36	Cl-36, 99.23 nCi Test Tube(L)	12/02/1999	1.000E-04 mCi	<i>Same</i>	9.999E-05		DADA1599P2458
-----------	-------	-------------------------------	------------	---------------	-------------	-----------	--	---------------

**221 CO-57 Any**

✓ 0000622	Co-57	CO-57, 10uCi, Test Tube(S)	12/02/1999	1.030E-02 mCi	<i>Same</i>	1.773E-04		DADA1599P2458
0049118	Co-57	Flood Source(S)	09/18/1995	1.500E+01 mCi	<i>Same</i>	5.074E-03		DADA1595D2547

The principal user's/authorized worker's signature on this form indicates that a physical inventory of the radionuclides listed above has been performed.

Principal User's/Authorized Worker's Signature: \_\_\_\_\_

*Varjese Col*

Date: \_\_\_\_\_

*4/15/04*

**Walter Reed Army Medical Center  
Non Sealed Receipts in Inventory by Licensee**

04/07/2004  
Decayed\_Inventory  
Page 2

RAM Receipt Id	Radio- nuclide	Chemical/Physical Form	Receipt Date	Receipt Activity	Fill In Current Activity	Decayed Inventory Activity (mCi)	Supplier's Name	Purchase Order Number
-------------------	-------------------	---------------------------	-----------------	---------------------	-----------------------------	-------------------------------------	--------------------	--------------------------

**BURTON, DAVID**

Authorization Number: 221

**221 CO-57 Any**

✓ 0049120	Co-57	RIGHT AND LEFT ORIENTATION SET	09/18/1995	1.000E-01 mCi	57-Co-149	3.383E-05		DADA1595D2547
✓ 0049391	Co-57	EVAPORATED METALLIC SALTS-SPOT	01/04/1996	5.000E-02 mCi	57-Co-150	2.230E-05		58950
✓ 0049999	Co-57	DOSE CAL. STANDARD(S)	10/10/1996	5.131E+00 mCi	57-Co-154	4.683E-03		
✓ 0050028	Co-57	3X CO-57 SPOT MARKERS(S)	10/22/1996	5.000E-02 mCi	57-Co-155	4.706E-05		50000022301010
✓ 0051112	Co-57	Spot Marker	04/15/1998	5.000E-02 mCi	57-Co-160	1.873E-04		81008546
✓ 0051511	Co-57	Dose Calibrator Source(S)	11/16/1998	5.880E+00 mCi	57-Co-164	3.818E-02		YMEXRD-83148547
✓ 0051828	Co-57	Spot Marker	06/15/1999	5.000E-02 mCi	57-Co-166	5.570E-04		Y9162C
✓ 00754	Co-57	Spot marker	04/15/1998	5.000E-02 mCi	57-Co-167	1.873E-04		
✓ 00755	Co-57	Spot marker	04/15/1998	5.000E-02 mCi	57-Co-162	1.873E-04		
✓ 00756	Co-57		04/15/1998	5.000E-02 mCi	57-Co-163	1.873E-04		
✓ 00757	Co-57		06/15/1999	5.000E-02 mCi	57-Co-167	5.570E-04		

The principal user's/authorized worker's signature on this form indicates that a physical inventory of the radionuclides listed above has been performed.

Principal User's/Authorized Worker's Signature: \_\_\_\_\_ Date: \_\_\_\_\_

**Walter Reed Army Medical Center  
Non Sealed Receipts in Inventory by Licensee**

04/07/2004  
Decayed\_Inventory  
Page 3

RAM Receipt Id	Radio- nuclide	Chemical/Physical Form	Receipt Date	Receipt Activity	Fill In Current Activity	Decayed Inventory Activity (mCi)	Supplier's Name	Purchase Order Number
-------------------	-------------------	---------------------------	-----------------	---------------------	-----------------------------	-------------------------------------	--------------------	--------------------------

**BURTON, DAVID**

Authorization Number: 221

221 CO-57 Any

✓ 00758	Co-57	Spot marker	06/15/1999	5.000E-02 mCi	57-Co-168	5.570E-04		
✓ 53096	Co-57	Co-57 Type T Test Tube	09/30/2002	1.000E-03 mCi	Same	2.418E-04	Isotope Product	WELREE02PP

221 I-125 any

✓ 53202	I-125	Iodine Standard	10/15/2002	1.000E-03 mCi	Same	1.984E-06	Isotope Product	VISA
---------	-------	-----------------	------------	---------------	------	-----------	-----------------	------

The principal user's/authorized worker's signature on this form indicates that a physical inventory of the radionuclides listed above has been performed.

Principal User's/Authorized Worker's Signature: \_\_\_\_\_

Date: \_\_\_\_\_

**Walter Reed Army Medical Center  
Non Sealed Receipts in Inventory by Licensee**

04/07/2004  
Decayed\_Inventory  
Page 4

RAM Receipt Id	Radio- nuclide	Chemical/Physical Form	Receipt Date	Receipt Activity	Fill In Current Activity	Decayed Inventory Activity (mCi)	Supplier's Name	Purchase Order Number
-------------------	-------------------	---------------------------	-----------------	---------------------	-----------------------------	-------------------------------------	--------------------	--------------------------

**BURTON, DAVID**

Authorization Number: 221

**221 MN-54 Any**

✓ 0000626	Mn-54	Mn-54, 11.22uCi, Test Tube(S)	12/02/1999	1.155E-02 mCi	Same	3.421E-04		DADA1598P2458
-----------	-------	----------------------------------	------------	---------------	------	-----------	--	---------------

**221 PU-239 CALIBRATION SOURCES**

✓ 00801	Pu-239	Cal. source	01/01/1985	1.500E-03 mCi	239 Pu-01	1.499E-03		
---------	--------	-------------	------------	---------------	-----------	-----------	--	--

**221 SB-125 Any**

✓ 0000115	Sb-125	(L) Bldg 516 Storage	03/27/1995	2.600E-01 mCi	Same	2.710E-02		
-----------	--------	-------------------------	------------	---------------	------	-----------	--	--

The principal user's/authorized worker's signature on this form indicates that a physical inventory of the radionuclides listed above has been performed.

Principal User's/Authorized Worker's Signature: \_\_\_\_\_

Date: \_\_\_\_\_



Walter Reed Army Medical Center  
Non Sealed Receipts in Inventory by Licensee

04/07/2004  
Decayed\_Inventory  
Page 5

RAM Receipt Id	Radio- nuclide	Chemical/Physical Form	Receipt Date	Receipt Activity	Fill In Current Activity	Decayed Inventory Activity (mCi)	Supplier's Name	Purchase Order Number
-------------------	-------------------	---------------------------	-----------------	---------------------	-----------------------------	-------------------------------------	--------------------	--------------------------

BURTON, DAVID

Authorization Number: 221

221 ZN-65 Any

✓ 0000627	Zn-65	Zn-65, 11.19uCi, Test Tube(L)	12/02/1999	1.119E-02 mCi	<i>Same</i>	1.240E-04		DADA1599P2458
-----------	-------	----------------------------------	------------	---------------	-------------	-----------	--	---------------

The principal user's/authorized worker's signature on this form indicates that a physical inventory of the radionuclides listed above has been performed.

Principal User's/Authorized Worker's Signature: \_\_\_\_\_ Date: \_\_\_\_\_

**Walter Reed Army Medical Center**  
**Non Sealed Receipts in Inventory by Licensee**

01/16/2004  
Decayed\_Inventory  
Page 1

RAM Receipt Id	Radio- nuclide	Chemical/Physical Form	Receipt Date	Receipt Activity	Fill In Current Activity	Decayed Inventory Activity (mCi)	Supplier's Name	Purchase Order Number
-------------------	-------------------	---------------------------	-----------------	---------------------	-----------------------------	-------------------------------------	--------------------	--------------------------

**BURTON, DAVID**

Authorization Number: 221

✓ 00848 241-Am-18 Rm 41, Rm 39	Am-241		09/09/2003	9.537E+02 mCi	Same	9.532E+02		
-----------------------------------	--------	--	------------	---------------	------	-----------	--	--

**221 CD-109 Any**

✓ 0000623	Cd-109	Cd-109, 10uCi, Test Tube(S)	12/02/1999	1.049E-02 mCi	Same	1.106E-03		DADA1598P2458
✓ 0052691	Cd-109	Cd-109, Co-57, Te-123m, Cr-51,	07/30/2001	1.000E-03 mCi	Same	2.608E-04		VISA

**221 CL-36 Any**

✓ 0000629	Cl-36	Cl-36, 99.23 nCi Test Tube(L)	12/02/1999	1.000E-04 mCi	Same	9.999E-05		DADA1599P2458
-----------	-------	-------------------------------	------------	---------------	------	-----------	--	---------------

**221 CO-57 Any**

✓ 0000622	Co-57	CO-57, 10uCi, Test Tube(S)	12/02/1999	1.030E-02 mCi	Same	2.186E-04		DADA1599P2458
✓ 0049118	Co-57	Flood Source(S)	09/18/1995	1.500E+01 mCi	57-Co-148	6.259E-03		DADA1595D2547

The principal user's/authorized worker's signature on this form indicates that a physical inventory of the radionuclides listed above has been performed.

Principal User's/Authorized Worker's Signature: *[Signature]*

Date: 1/30/04

**Walter Reed Army Medical Center**  
**Non Sealed Receipts in Inventory by Licensee**

01/16/2004  
 Decayed\_Inventory  
 Page 2

RAM Receipt Id	Radio- nuclide	Chemical/Physical Form	Receipt Date	Receipt Activity	Fill In Current Activity	Decayed Inventory Activity (mCi)	Supplier's Name	Purchase Order Number
-------------------	-------------------	---------------------------	-----------------	---------------------	-----------------------------	-------------------------------------	--------------------	--------------------------

**BURTON, DAVID**

**Authorization Number:** 221

**221 CO-57**

**Any**

✓ 0049120	Co-57	RIGHT AND LEFT ORIENTATION SET	09/18/1995	1.000E-01 mCi	57-Co-149	4.172E-05		DADA1595D2547
✓ 0049391	Co-57	EVAPORATED METALLIC SALTS-SPOT	01/04/1996	5.000E-02 mCi	57-Co-150	2.750E-05		58950
✓ 0049999	Co-57	DOSE CAL. STANDARD(S)	10/10/1996	5.131E+00 mCi	57-Co-154	5.776E-03		
✓ 0050028	Co-57	3X CO-57 SPOT MARKERS(S)	10/22/1996	5.000E-02 mCi	57-Co-155	5.804E-05		50000022301010
✓ 0051112	Co-57	Spot Marker	04/15/1998	5.000E-02 mCi	57-Co-160	2.310E-04		81008546
✓ 0051511	Co-57	Dose Calibrator Source(S)	11/16/1998	5.880E+00 mCi	57-Co-164	4.709E-02		YMEXRD-83148547
✓ 0051828	Co-57	Spot Marker	06/15/1999	5.000E-02 mCi	57-Co-166	6.870E-04		Y9162C
✓ 00754	Co-57	Spot marker	04/15/1998	5.000E-02 mCi	57-Co-167	2.310E-04		
✓ 00755	Co-57	Spot marker	04/15/1998	5.000E-02 mCi	57-Co-167	2.310E-04		
✓ 00756	Co-57		04/15/1998	5.000E-02 mCi	57-Co-163	2.310E-04		
✓ 00757	Co-57		06/15/1999	5.000E-02 mCi	57-Co-167	6.870E-04		

The principal user's/authorized worker's signature on this form indicates that a physical inventory of the radionuclides listed above has been performed.

Principal User's/Authorized Worker's Signature:

*David Burton*

Date:

*1/30/04*

**Walter Reed Army Medical Center  
Non Sealed Receipts in Inventory by Licensee**

01/16/2004  
Decayed\_Inventory  
Page 3

RAM Receipt Id	Radio- nuclide	Chemical/Physical Form	Receipt Date	Receipt Activity	Fill In Current Activity	Decayed Inventory Activity (mCi)	Supplier's Name	Purchase Order Number
-------------------	-------------------	---------------------------	-----------------	---------------------	-----------------------------	-------------------------------------	--------------------	--------------------------

**BURTON, DAVID**

Authorization Number: 221

**221 CO-57 Any**

✓00788	Co-57	Spot marker	06/15/1999	5.000E-02 mCi	57-Co-168	6.870E-04		
53096	Co-57	Co-57 Type T Test Tube	09/30/2002	1.000E-03 mCi	Same	2.982E-04	Isotope Product	WELREE02PP

**221 CR-51 any**

53095	Cr-51	Cr51 Type T Test Tube	09/30/2002	1.000E-03 mCi	0	7.269E-09	Isotope Product	WALREE02PP
-------	-------	-----------------------	------------	---------------	---	-----------	-----------------	------------

**221 I-125 any**

✓53202	I-125	Iodine Standard	10/15/2002	1.000E-03 mCi	Same	5.105E-06	Isotope Product	VISA
--------	-------	-----------------	------------	---------------	------	-----------	-----------------	------

The principal user's/authorized worker's signature on this form indicates that a physical inventory of the radionuclides listed above has been performed.

Principal User's/Authorized Worker's Signature: \_\_\_\_\_

Date: 1/30/04

**Walter Reed Army Medical Center  
Non Sealed Receipts in Inventory by Licensee**

01/16/2004  
Decayed\_Inventory  
Page 4

RAM Receipt Id	Radio- nuclide	Chemical/Physical Form	Receipt Date	Receipt Activity	Fill In Current Activity	Decayed Inventory Activity (mCi)	Supplier's Name	Purchase Order Number
-------------------	-------------------	---------------------------	-----------------	---------------------	-----------------------------	-------------------------------------	--------------------	--------------------------

**BURTON, DAVID**

Authorization Number: 221

**221 I-131 any**

53097	I-131	I-131 Type T Test Tube	09/30/2002	1.000E-03 mCi	0	1.967E-21	Isotope Product	WALREE02PP
-------	-------	------------------------	------------	---------------	---	-----------	-----------------	------------

**221 MN-54 Any**

✓ 0000626	Mn-54	Mn-54, 11.22uCi, Test Tube(S)	12/02/1999	1.155E-02 mCi	Same	4.103E-04		DADA1598P2458
-----------	-------	-------------------------------	------------	---------------	------	-----------	--	---------------

**221 PU-239 CALIBRATION SOURCES**

✓ 00801	Pu-239	Cal. source	01/01/1985	1.500E-03 mCi	239-Pu-01	1.499E-03		
---------	--------	-------------	------------	---------------	-----------	-----------	--	--

The principal user's/authorized worker's signature on this form indicates that a physical inventory of the radionuclides listed above has been performed.

Principal User's/Authorized Worker's Signature: \_\_\_\_\_

Date: \_\_\_\_\_

*ICOL*

*1/30/04*

**Walter Reed Army Medical Center  
Non Sealed Receipts in Inventory by Licensee**

01/16/2004  
Decayed\_Inventory  
Page 5

RAM Receipt Id	Radio- nuclide	Chemical/Physical Form	Receipt Date	Receipt Activity	Fill In Current Activity	Decayed Inventory Activity (mCi)	Supplier's Name	Purchase Order Number
-------------------	-------------------	---------------------------	-----------------	---------------------	-----------------------------	-------------------------------------	--------------------	--------------------------

**BURTON, DAVID**

Authorization Number: 221

221 S-35 any

✓ 0000628	S-35	S-35, 114.3uCi(L)	12/02/1999	1.267E-01 mCi	<i>Same</i>	8.302E-07		DADA1599P2458
-----------	------	-------------------	------------	---------------	-------------	-----------	--	---------------

221 SB-125 Any

0000145	Sb-125	(L) <i>Bldg 514 Storage</i>	03/27/1995	2.600E-01 mCi	<i>Same</i>	2.866E-02		
---------	--------	--------------------------------	------------	---------------	-------------	-----------	--	--

221 ZN-65 Any

The principal user's/authorized worker's signature on this form indicates that a physical inventory of the radionuclides listed above has been performed.

Principal User's/Authorized Worker's Signature: \_\_\_\_\_

*ICAF*

Date: \_\_\_\_\_

*1/30/04*

**Walter Reed Army Medical Center  
Non Sealed Receipts in Inventory by Licensee**

01/16/2004  
Decayed\_Inventory  
Page 6

RAM Receipt Id	Radio- nuclide	Chemical/Physical Form	Receipt Date	Receipt Activity	Fill In Current Activity	Decayed Inventory Activity (mCi)	Supplier's Name	Purchase Order Number
-------------------	-------------------	---------------------------	-----------------	---------------------	-----------------------------	-------------------------------------	--------------------	--------------------------

BURTON, DAVID

Authorization Number: 221

221 ZN-65

Any

0000627	Zn-65	Zn-65, 11.19uCi, Test Tube(L)	12/02/1999	1.119E-02 mCi	<i>Same</i>	1.564E-04		DADA1599P2458
---------	-------	----------------------------------	------------	---------------	-------------	-----------	--	---------------

The principal user's/authorized worker's signature on this form indicates that a physical inventory of the radionuclides listed above has been performed.

Principal User's/Authorized Worker's Signature: \_\_\_\_\_

Date: \_\_\_\_\_

*[Signature]*

*1/30/04*

**Walter Reed Army Medical Center  
Non Sealed Receipts in Inventory by Licensee**

10/01/2003  
Decayed\_Inventory  
Page 1

RAM Receipt Id	Radio- nuclide	Chemical/Physical Form	Receipt Date	Receipt Activity	Fill In Current Activity	Decayed Inventory Activity (mCi)	Supplier's Name	Purchase Order Number
-------------------	-------------------	---------------------------	-----------------	---------------------	-----------------------------	-------------------------------------	--------------------	--------------------------

**BURTON, DAVID**

Authorization Number: 221

00848 ✓ 241- Am-18	Am-241	Bldg 41, Rm 39	09/09/2003	9.537E+02 mCi	Same	9.536E+02		
-----------------------	--------	----------------	------------	---------------	------	-----------	--	--

**221 CD-109 Any**

✓ 0000623	Cd-109	Cd-109, 10uCi, Test Tube(S)	12/02/1999	1.049E-02 mCi	Same	1.298E-03		DADA1598P2458
✓ 0052691	Cd-109	Cd-109, Co-57, Te-123m, Cr-51,	07/30/2001	1.000E-03 mCi	Same	3.059E-04		VISA

**221 CL-36 Any**

✓ 0000629	Cl-36	Cl-36, 99.23 nCi Test Tube(L)	12/02/1999	1.000E-04 mCi	Same	9.999E-05		DADA1599P2458
-----------	-------	-------------------------------	------------	---------------	------	-----------	--	---------------

**221 CO-57 Any**

✓ 0000622	Co-57	CO-57, 10uCi, Test Tube(S)	12/02/1999	1.030E-02 mCi	Same	2.875E-04		DADA1599P2458
✓ 0049118	Co-57	Flood Source(S)	09/18/1995	1.500E+01 mCi	57-CO-148	8.229E-03		DADA1595D2547

The principal user's/authorized worker's signature on this form indicates that a physical inventory of the radionuclides listed above has been performed.

Principal User's/Authorized Worker's Signature: \_\_\_\_\_

Date: \_\_\_\_\_

*Yalessa Cox* 10/10/03



**Walter Reed Army Medical Center  
Non Sealed Receipts in Inventory by Licensee**

10/01/2003  
Decayed\_Inventory  
Page 2

RAM Receipt Id	Radio- nuclide	Chemical/Physical Form	Receipt Date	Receipt Activity	Fill In Current Activity	Decayed Inventory Activity (mCi)	Supplier's Name	Purchase Order Number
-------------------	-------------------	---------------------------	-----------------	---------------------	-----------------------------	-------------------------------------	--------------------	--------------------------

**BURTON, DAVID**

Authorization Number: 221

**221 CO-57**

**Any**

✓ 0049120	Co-57	RIGHT AND LEFT ORIENTATION SET	09/18/1995	1.000E-01 mCi	57-Co-149	5.486E-05		DADA1595D2547
✓ 0049391	Co-57	EVAPORATED METALLIC SALTS-SPOT	01/04/1996	5.000E-02 mCi	57-Co-150	3.616E-05		58950
✓ 0049999	Co-57	DOSE CAL. STANDARD(S)	10/10/1996	5.131E+00 mCi	57-Co-154	7.595E-03		
✓ 0050028	Co-57	3X CO-57 SPOT MARKERS(S)	10/22/1996	5.000E-02 mCi	57-Co-155	7.632E-05		50000022301010
✓ 0051112	Co-57	Spot Marker	04/15/1998	5.000E-02 mCi	57-Co-160	3.038E-04		81008546
✓ 0051511	Co-57	Dose Calibrator Source(S)	11/16/1998	5.880E+00 mCi	57-Co-164	6.192E-02		YMEXRD-83148547
✓ 0051828	Co-57	Spot Marker	06/15/1999	5.000E-02 mCi	57-Co-166	9.033E-04		Y9162C
✓ 00754	Co-57	Spot marker	04/15/1998	5.000E-02 mCi	57-Co-167	3.038E-04		
✓ 00755	Co-57	Spot marker	04/15/1998	5.000E-02 mCi	57-Co-162	3.038E-04		
✓ 00756	Co-57		04/15/1998	5.000E-02 mCi	57-Co-163	3.038E-04		
✓ 00757	Co-57		06/15/1999	5.000E-02 mCi	57-Co-167	9.033E-04		

The principal user's/authorized worker's signature on this form indicates that a physical inventory of the radionuclides listed above has been performed.

Principal User's/Authorized Worker's Signature: \_\_\_\_\_

Date: \_\_\_\_\_

10/10/03

**Walter Reed Army Medical Center  
Non Sealed Receipts in Inventory by Licensee**

10/01/2003  
Decayed\_Inventory  
Page 3

RAM Receipt Id	Radio- nuclide	Chemical/Physical Form	Receipt Date	Receipt Activity	Fill In Current Activity	Decayed Inventory Activity (mCi)	Supplier's Name	Purchase Order Number
-------------------	-------------------	---------------------------	-----------------	---------------------	-----------------------------	-------------------------------------	--------------------	--------------------------

**BURTON, DAVID**

**Authorization Number: 221**

**221 CO-57 Any**

00758	Co-57	Spot marker	06/15/1999	5.000E-02 mCi	57-Co-168	9.033E-04		
✓ 58096	Co-57	Co-57 Type T Test Tube	09/30/2002	1.000E-03 mCi	same	3.921E-04	Isotope Product	WELREE02PP

**221 CR-51 any**

✓ 53095	Cr-51	Cr51 Type T Test Tube	09/30/2002	1.000E-03 mCi	same	1.057E-07	Isotope Product	WALREE02PP
---------	-------	-----------------------	------------	---------------	------	-----------	-----------------	------------

**221 I-125 any**

✓ 58202	I-125	Iodine Standard	10/15/2002	1.000E-03 mCi	same	1.752E-05	Isotope Product	VISA
---------	-------	-----------------	------------	---------------	------	-----------	-----------------	------

The principal user's/authorized worker's signature on this form indicates that a physical inventory of the radionuclides listed above has been performed.

Principal User's/Authorized Worker's Signature: \_\_\_\_\_

Date: 10/10/03

**Walter Reed Army Medical Center  
Non Sealed Receipts in Inventory by Licensee**

10/01/2003  
Decayed\_Inventory  
Page 4

RAM Receipt Id	Radio- nuclide	Chemical/Physical Form	Receipt Date	Receipt Activity	Fill In Current Activity	Decayed Inventory Activity (mCi)	Supplier's Name	Purchase Order Number
-------------------	-------------------	---------------------------	-----------------	---------------------	-----------------------------	-------------------------------------	--------------------	--------------------------

**BURTON, DAVID**

Authorization Number: 221

221 I-131 any

✓ 53097	I-131	I-131 Type T Test Tube	09/30/2002	1.000E-03 mCi	Same	1.992E-17	Isotope Product	WALREE02PP
---------	-------	------------------------	------------	---------------	------	-----------	-----------------	------------

221 MN-54 Any

✓ 0000626	Mn-54	Mn-54, 11.22uCi, Test Tube(S)	12/02/1999	1.155E-02 mCi	Same	5.201E-04		DADA1598P2458
-----------	-------	-------------------------------	------------	---------------	------	-----------	--	---------------

221 PU-239 CALIBRATION SOURCES

✓ 00801	Pu-239	Cal. source	01/01/1985	1.500E-03 mCi	239-Pu-01	1.499E-03		
---------	--------	-------------	------------	---------------	-----------	-----------	--	--

The principal user's/authorized worker's signature on this form indicates that a physical inventory of the radionuclides listed above has been performed.

Principal User's/Authorized Worker's Signature: \_\_\_\_\_

Date: \_\_\_\_\_

10/10/03

**Walter Reed Army Medical Center  
Non Sealed Receipts in Inventory by Licensee**

10/01/2003  
Decayed\_Inventory  
Page 5

RAM Receipt Id	Radio- nuclide	Chemical/Physical Form	Receipt Date	Receipt Activity	Fill In Current Activity	Decayed Inventory Activity (mCi)	Supplier's Name	Purchase Order Number
-------------------	-------------------	---------------------------	-----------------	---------------------	-----------------------------	-------------------------------------	--------------------	--------------------------

**BURTON, DAVID**

Authorization Number: 221

**221 S-35 any**

✓0000628	S-35	S-35, 114.3uCi(L)	12/02/1999	1.267E-01 mCi	Same	1.939E-06		DADA1599P2458
----------	------	-------------------	------------	---------------	------	-----------	--	---------------

**221 SB-125 Any**

✓0000115	Sb-125	(L)	03/27/1995	2.600E-01 mCi	Same	3.085E-02		
----------	--------	-----	------------	---------------	------	-----------	--	--

*Bldg 516 (Storage)*

**221 ZN-65 Any**

The principal user's/authorized worker's signature on this form indicates that a physical inventory of the radionuclides listed above has been performed.

Principal User's/Authorized Worker's Signature: \_\_\_\_\_

*VC04*

Date: \_\_\_\_\_

*10/12/03*

**Walter Reed Army Medical Center  
Non Sealed Receipts in Inventory by Licensee**

10/01/2003  
Decayed\_Inventory  
Page 6

RAM Receipt Id	Radio- nuclide	Chemical/Physical Form	Receipt Date	Receipt Activity	Fill In Current Activity	Decayed Inventory Activity (mCi)	Supplier's Name	Purchase Order Number
-------------------	-------------------	---------------------------	-----------------	---------------------	-----------------------------	-------------------------------------	--------------------	--------------------------

**BURTON, DAVID**

Authorization Number: 221

**221 ZN-65**

**Any**

✓ 0000627	Zn-65	Zn-65, 11.19uCi, Test Tube(L)	12/02/1999	1.119E-02 mCi	<i>Same</i>	2.119E-04		DADA1599P2458
-----------	-------	----------------------------------	------------	---------------	-------------	-----------	--	---------------

The principal user's/authorized worker's signature on this form indicates that a physical inventory of the radionuclides listed above has been performed.

Principal User's/Authorized Worker's Signature: \_\_\_\_\_

*CO4*

Date: \_\_\_\_\_

*10/12/03*

**Walter Reed Army Medical Center  
Non Sealed Receipts in Inventory by Licensee**

07/21/2003  
Decayed\_Inventory  
Page 1

RAM Receipt Id	Radio- nuclide	Chemical/Physical Form	Receipt Date	Receipt Activity	Fill In Current Activity	Decayed Inventory Activity (mCi)	Supplier's Name	Purchase Order Number
-------------------	-------------------	---------------------------	-----------------	---------------------	-----------------------------	-------------------------------------	--------------------	--------------------------

BURTON, DAVID

Authorization Number: 221

00802 <i>241-Am-1</i>	Am-241	Thyroid scanner <i>Bldg 2 Rm 1H24</i>	02/26/1974	2.042E+04 mCi	<i>Same</i>	1.948E+04		
--------------------------	--------	--	------------	---------------	-------------	-----------	--	--

221 BA-133 Any

✓ 00772	Ba-133		05/15/1990	1.871E-02 mCi	<i>133-Ba-05</i>	7.833E-03		
✓ 00774	Ba-133	LSC standard <i>1E24</i>	07/23/1990	1.880E-02 mCi	<i>133-Ba-07</i>	7.970E-03		
✓ 00776	Ba-133		11/14/1995	1.865E-02 mCi	<i>133-Ba-11</i>	1.123E-02		

221 CD-109 Any

✓ 0000623	Cd-109	Cd-109, 10uCi, Test Tube(S)	12/02/1999	1.049E-02 mCi	<i>Same</i>	1.446E-03		DADA1598P2458
✓ 0052691	Cd-109	Cd-109, Co-57, Te-123m, Cr-51,	07/30/2001	1.000E-03 mCi	<i>Same</i>	3.407E-04		VISA

221 CL-36 Any

The principal user's/authorized worker's signature on this form indicates that a physical inventory of the radionuclides listed above has been performed.

Principal User's/Authorized Worker's Signature: *David Burton*

Date: *30 July 03*

**Walter Reed Army Medical Center  
Non Sealed Receipts in Inventory by Licensee**

07/21/2003  
Decayed\_Inventory  
Page 2

RAM Receipt Id	Radio- nuclide	Chemical/Physical Form	Receipt Date	Receipt Activity	Fill In Current Activity	Decayed Inventory Activity (mCi)	Supplier's Name	Purchase Order Number
-------------------	-------------------	---------------------------	-----------------	---------------------	-----------------------------	-------------------------------------	--------------------	--------------------------

**BURTON, DAVID**

Authorization Number: 221

**221 CL-36 Any**

✓ 0000629	Cl-36	Cl-36, 99.23 nCi Test Tube(L)	12/02/1999	1.000E-04 mCi	same	9.999E-05		DADA1599P2458
-----------	-------	-------------------------------	------------	---------------	------	-----------	--	---------------

**221 CO-57 Any**

✓ 0000622	Co-57	CO-57, 10uCi, Test Tube(S)	12/02/1999	1.030E-02 mCi	SAME	3.456E-04		DADA1599P2458
✓ 0049118	Co-57	Flood Source(S)	09/18/1995	1.500E+01 mCi	57-CO-148	9.893E-03		DADA1595D2547
✓ 0049120	Co-57	RIGHT AND LEFT ORIENTATION SET	09/18/1995	1.000E-01 mCi	57-CO-149	6.595E-05		DADA1595D2547
✓ 0049391	Co-57	EVAPORATED METALLIC SALTS-SPOT	01/04/1996	5.000E-02 mCi	57-CO-150	4.347E-05		58950
✓ 0049999	Co-57	DOSE CAL. STANDARD(S)	10/10/1996	5.131E+00 mCi	57-CO-154	9.131E-03		
✓ 0050028	Co-57	3X CO-57 SPOT MARKERS(S)	10/22/1996	5.000E-02 mCi	57-CO-155	9.175E-05		50000022301010
✓ 0051112	Co-57	Spot Marker	04/15/1998	5.000E-02 mCi	57-CO-160	3.652E-04		81008546
✓ 0051511	Co-57	Dose Calibrator Source(S)	11/16/1998	5.880E+00 mCi	57-CO-164	7.444E-02		YMEXRD-83148547

The principal user's/authorized worker's signature on this form indicates that a physical inventory of the radionuclides listed above has been performed.

Principal User's/Authorized Worker's Signature: \_\_\_\_\_

*David Burton*

Date: \_\_\_\_\_

*30 Jul 03*

**Walter Reed Army Medical Center  
Non Sealed Receipts in Inventory by Licensee**

07/21/2003  
Decayed\_Inventory  
Page 3

RAM Receipt Id	Radio- nuclide	Chemical/Physical Form	Receipt Date	Receipt Activity	Fill In Current Activity	Decayed Inventory Activity (mCi)	Supplier's Name	Purchase Order Number
-------------------	-------------------	---------------------------	-----------------	---------------------	-----------------------------	-------------------------------------	--------------------	--------------------------

**BURTON, DAVID**

Authorization Number: 221

**221 CO-57 Any**

✓ 0051828	Co-57	Spot Marker	06/15/1999	5.000E-02 mCi	57-Co-166	1.086E-03		Y9162C
✓ 00754	Co-57	Spot marker	04/15/1998	5.000E-02 mCi	57-Co-167	3.652E-04		
✓ 00755	Co-57	Spot marker	04/15/1998	5.000E-02 mCi	57-Co-162	3.652E-04		
✓ 00756	Co-57		04/15/1998	5.000E-02 mCi	57-Co-163	3.652E-04		
✓ 00757	Co-57		06/15/1999	5.000E-02 mCi	57-Co-168	1.086E-03		
✓ 00758	Co-57	Spot marker	06/15/1999	5.000E-02 mCi	57-Co-168	1.086E-03		
✓ 53096	Co-57	Co-57 Type T Test Tube	09/30/2002	1.000E-03 mCi	Same	4.714E-04	Isotope Product	WELREE02PP

**221 CR-51 any**

✓ 53095	Cr-51	Cr51 Type T Test Tube	09/30/2002	1.000E-03 mCi	Same	6.399E-07	Isotope Product	WALREE02PP
---------	-------	-----------------------	------------	---------------	------	-----------	-----------------	------------

The principal user's/authorized worker's signature on this form indicates that a physical inventory of the radionuclides listed above has been performed.

Principal User's/Authorized Worker's Signature: David Burton

Date: 30 Jul 03



**Walter Reed Army Medical Center  
Non Sealed Receipts in Inventory by Licensee**

07/21/2003  
Decayed\_Inventory  
Page 4

RAM Receipt Id	Radio- nuclide	Chemical/Physical Form	Receipt Date	Receipt Activity	Fill In Current Activity	Decayed Inventory Activity (mCi)	Supplier's Name	Purchase Order Number
-------------------	-------------------	---------------------------	-----------------	---------------------	-----------------------------	-------------------------------------	--------------------	--------------------------

**BURTON, DAVID**

**Authorization Number:** 221

**221 I-125 any**

✓ 53202	I-125	Iodine Standard	10/15/2002	1.000E-03 mCi	<i>Same</i>	4.016E-05	Isotope Product	VISA
---------	-------	-----------------	------------	---------------	-------------	-----------	-----------------	------

**221 I-131 any**

✓ 53097	I-131	I-131 Type T Test Tube	09/30/2002	1.000E-03 mCi	<i>Same</i>	9.875E-15	Isotope Product	WALREE02PP
---------	-------	------------------------	------------	---------------	-------------	-----------	-----------------	------------

**221 MN-54 Any**

✓ 0000626	Mn-54	Mn-54, 11.22uCi, Test Tube(S)	12/02/1999	1.155E-02 mCi	<i>Same</i>	6.101E-04		DADA1598P2458
-----------	-------	-------------------------------	------------	---------------	-------------	-----------	--	---------------

The principal user's/authorized worker's signature on this form indicates that a physical inventory of the radionuclides listed above has been performed.

Principal User's/Authorized Worker's Signature: \_\_\_\_\_

*David Burton*

Date: \_\_\_\_\_

*30 Jul 03*

**Walter Reed Army Medical Center  
Non Sealed Receipts in Inventory by Licensee**

07/21/2003  
Decayed\_Inventory  
Page 5

RAM Receipt Id	Radio- nuclide	Chemical/Physical Form	Receipt Date	Receipt Activity	Fill In Current Activity	Decayed Inventory Activity (mCi)	Supplier's Name	Purchase Order Number
-------------------	-------------------	---------------------------	-----------------	---------------------	-----------------------------	-------------------------------------	--------------------	--------------------------

**BURTON, DAVID**

Authorization Number: 221

**221 PU-239 CALIBRATION SOURCES**

✓00801	Pu-239	Cal. source	01/01/1985	1.500E-03 mCi	239-Pu-01	1.499E-03		
--------	--------	-------------	------------	---------------	-----------	-----------	--	--

**221 S-35 any**

✓0000628	S-35	S-35, 114.3uCi(L)	12/02/1999	1.267E-01 mCi	same	3.430E-06		DADA1599P2458
----------	------	-------------------	------------	---------------	------	-----------	--	---------------

**221 SB-125 Any**

0000115 Bldg 516 (in storage)	Sb-125 (L)		03/27/1995	2.600E-01 mCi	same	3.241E-02		
----------------------------------	---------------	--	------------	---------------	------	-----------	--	--

The principal user's/authorized worker's signature on this form indicates that a physical inventory of the radionuclides listed above has been performed.

Principal User's/Authorized Worker's Signature: \_\_\_\_\_

*David Burton*

Date: \_\_\_\_\_

*30 Jul 03*

**Walter Reed Army Medical Center  
Non Sealed Receipts in Inventory by Licensee**

07/21/2003  
Decayed\_Inventory  
Page 6

RAM Receipt Id	Radio- nuclide	Chemical/Physical Form	Receipt Date	Receipt Activity	Fill In Current Activity	Decayed Inventory Activity (mCi)	Supplier's Name	Purchase Order Number
-------------------	-------------------	---------------------------	-----------------	---------------------	-----------------------------	-------------------------------------	--------------------	--------------------------

BURTON, DAVID

Authorization Number: 221

221 ZN-65

Any

✓ 0000627	Zn-65	Zn-65, 11.19uCi, Test Tube(L)	12/02/1999	1.119E-02 mCi	<i>Same</i>	2.598E-04		DADA1599P2458
-----------	-------	----------------------------------	------------	---------------	-------------	-----------	--	---------------

The principal user's/authorized worker's signature on this form indicates that a physical inventory of the radionuclides listed above has been performed.

Principal User's/Authorized Worker's Signature:

*David Burton*

Date:

*30 Jul 03*

WALTER REED ARMY MEDICAL CENTER  
HEALTH PHYSICS OFFICE

6900 Georgia Avenue, Northwest • Building 41, Room 38 • Washington, D.C. 20307-5001 • (202) 356-0058

## Summary of Inventory at DORF

Date: May 9, 2002

**Radioactive Material Authorization Number: 221**

**Principal Investigator: Mr. David Burton**

Receipt ID	Radionuclide	Chemical / Physical Form	Receipt Activity	Fill in current Activity
RMR115	Sb-125		0.001 mCi	<i>DNB</i>
RMR52691	Cd-109	Calibration Standard (L)	0.26 mCi	} <i>Lab Building 41</i>
RMR622	Co-57	Co-57, 10 uCi, Test tube (s)	0.0103 mCi	
RMR623	Cd-109	Co-109, 10 uCi, Test tube(s)	0.01049 mCi	
RMR626	Mn-54	Mn-54, 10 uCi, Test tube(s)	0.01155 mCi	
RMR628	S-35	S-35, 114.3 uCi (L)	0.1267 mCi	
RMR629	Cl-36	Cl-36, 99.23 nCi (L)	0.003672 MBq	
RMR584	Pd-103	Theraseeds for Prostate (S)	2.80 mCi	<i>DNB</i>
RMR620	Pd-103	2 Theraseeds for Prostate (S)	6.16 mCi	<i>DNB</i>
RMR630	Pd-103	Theraseeds for Prostate (S)	2.20 mCi	<i>DNB</i>
RMR633	Pd-103	2 Theraseeds for Prostate (S)	5.40 mCi	<i>DNB</i>
RMR634	Pd-103	3 Theraseeds for Prostate (S)	8.80 mCi	<i>DNB</i>
RMR636	Pd-103	2 Theraseeds for Prostate (S)	5.94 mCi	<i>DNB</i>
RMR639	Pd-103	4 Theraseeds for Prostate (S)	0.9405 mCi	<i>DNB</i>
RMR640	Pd-103	2 Theraseeds for Prostate (S)	11.881 mCi	<i>DNB</i>
RMR642	Pd-103	2 Theraseeds for Prostate (S)	8.00 mCi	<i>DNB</i>
RMR651	Pd-103	Theraseeds for Prostate (S)	2.40 mCi	<i>DNB</i>
RMR661	Pd-103	3 Theraseeds for Prostate (S)	6.00 mCi	<i>DNB</i>
RMR673	Pd-103	Theraseeds for Prostate (S)	2.7 mCi	<i>DNB</i>
RMR674	Pd-103	Theraseeds for Prostate (S)	2.7 mCi	<i>DNB</i>
RMR678	Pd-103	7 Theraseeds for Prostate (S)	19.08 mCi	<i>DNB</i>
RMR680	Pd-103	8 Theraseeds for Prostate (S)	21.65 mCi	<i>DNB</i>
RMR705	Pd-103	12 Theraseeds for Prostate (S)	23.00 mCi	<i>DNB</i>
RMR710	Pd-103	6 Theraseeds for Prostate (S)	11.88 mCi	<i>DNB</i>
RMR717	Pd-103	30 Theraseeds for Prostate (S)	80.50 mCi	<i>DNB</i>
RMR721	Pd-103	7 Theraseeds for Prostate (S)	18.80 mCi	<i>DNB</i>
RMR725	Pd-103	2 Theraseeds for Prostate (S)	6.60 mCi	<i>DNB</i>
RMR730	Pd-103	6 Theraseeds for Prostate (S)	20.00 mCi	<i>DNB</i>
RMR733	Pd-103	3 Theraseeds for Prostate (S)	9.77 mCi	<i>DNB</i>
Total Number of radionuclides = 28				

*100% inventory performed 10 May 02*

*707 6 seeds*

*413 144 seeds*

*David Burton*