

APPROVED BY

RCC

07 JUN 1988

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

1. APPLICATION FOR:	NEW AUTHORIZATION	<input checked="" type="checkbox"/> RENEWAL OF AUTHORIZATION NUMBER	DATE
Ingram, Kenneth		571	

2. APPLICANT'S NAME (Last, First, MI) (Principal User)	3. APPLICANT'S MAILING ADDRESS (Include Organization)
Swett, Cyrus V. Filata, Badet	Dept. of Pathology and Area Lab Services

TELEPHONE NUMBER
576-4368

(IF MORE SPACE IS NEEDED FOR ANY ITEM, USE ADDITIONAL PROPERLY KEYED PAGES.)

4. List all CO-WORKERS	5. List all TRAINEES	6. List all TECHNICIANS
Filata, Badet	Dorworth, Caroline Brisker, Joan Teel, Louise	Zwick, Chris Finelli, Maria R. Vick, Randall G. Harris, Haley Powell, Laurie Morales, Vivian Martinez, Maria Bassiwa, Liza

7. LOCATIONS WHERE MATERIAL WILL BE USED: (Building and Associated Rooms)

Bldg 2 Rooms 2B53, 2B56

8. LOCATIONS WHERE MATERIAL WILL BE STORED: (Building and Associated Rooms)

Bldg 2 Rooms 2B56, 2B59, 2B62, 2B51 2B62

9. RADIOACTIVE WASTE DISPOSAL SINK IN ROOM:

2B56

10. RADIOACTIVE MATERIAL DATA

A. RADIOSOTOPE	B. CHEMICAL AND/OR PHYSICAL FORM (Sealed or Unsealed)	C. POSSESSION LIMIT	D. USE
^{14}C	Liquid bacter vials DNA Glucose	25 mCi	Detection of Bacterial Growth
N_2^{63} (624, 625)	2 sealed sources (15 mCi each)	30 mCi	sealed detectors for Gas Chromatography
I^{125}	RIA liquid unsealed	2 mCi	Clinical Testing in Vitro.

This Application is given
interim approval until the
next meeting of the RCC
which is scheduled for MAY 1988

CERTIFICATE

(This item must be completed by applicant)

I certify that this application is prepared in conformity with WRAMC Regulations and that all information contained herein includes

WRAMC
Audit of Radioactive Material
(In accordance with AR 40-37 & 40-61)

Inspector: C. Collins Date: 6 DEC 90 Auth: 571

1. DA form 3862 [NO] ☒ [YES]
2. Within limits [NO] ☒ [YES]
3. Inventory Control Officer: Mr. B. Fileta
Room: T-2
4. WRAMC Regulation 40-10 [NO] ☒ [YES]
5. WRAMC Authorization on hand ☒ [NO] [YES]
6. General Provisions - Terms & Conditions [NO] ☒ [YES]
7. LSC - Source No. & Location: N/A
8. WRAMC form 538 - current ☒ [NO] [YES]
9. Sink log [NO] ☒ [YES]
10. Signs & Labels: Rm 2B54 needs part 19
11. Personnel [Additions] [Deletions]
Additions: Liza Bassiwa - tk
12. General Comments: In March, plans to stop using I¹²⁵ kits

Principal User: Mr. B. Fileta

Authorized Representative:

B. L. L.

B. Fileta
Signature

6, Dec, 1990
Date

HSHL-H-HP (385-11)

APR 29 1991

MEMORANDUM FOR Pathology & Lab Svcs, ATTN: Mr. Kenneth Ingram

SUBJECT: Authorization # 571



PETER H. MYERS
LTC, MS
Health Physics Office

This Application is given
interim approval until the
next meeting of the RCC
which is scheduled for: JUNE 91

APPROVED BY
RCC

MAY 23 1991

DATE

DATE: 6 DEC 90

Authorization Review Process
Branch Input

Auth # 571

	A	B	COMMENTS
1	X	ZMB	
2	NA	ZMB	
3	NA	ZMB	
4	NA	KSB	
5	NA	KSB	
6	NA	PKC	
7	X	ZMB	Called 12/14/90 AC / 3-27-91 will send 7-8 Nov 91 Ken Ingram 6-1927
8	NA	ZMB	
9	NA	ZMB	
10	NA	PKC	
11	NA	PKC	
12			
13			
14			
15			

Index of Numbers and Symbols used above:

- (1) - Forms (WRAMC 1661R, 1662R, 1643) (Completed/typed)
 - (2) - Protocol (Required for: 3-H, 32-P, 125-I, 131-I, and all others deemed necessary by - amounts, activity, or use. (Reference NBS Handbook #92)
 - (3) - Isotopes (within limits for NRC License/personnel qualifications)
 - (4) - OPS Branch room pre-survey
 - (5) - OPS Branch room final survey
 - (6) - TS Branch instrumentation assignment
 - (7) - Training - WRAMC Form 538 (Completed by users annually)
 - (8) - Training - WRAMC Form 1643 (Training and Experience Form)
 - (9) - Fort Detrick - Auth#'s 541, 618, 619, 620, 621
 - (10) - TS Branch Bioassay
 - (11) - TS Branch Personnel dosimetry
-
- (A) - (X) when complete, (0) when pending, and () when pending completed
 - (B) - Initial of branch representative when complete or pending issues are resolved
 - (C) - Comments

HSHL-UCP

MEMORANDUM FOR:

Health Physics Officer
ATT: COL Peter H. Myers

SUBJECT:

Change of principal user for authorization
660 and # 571 from Mr. Bader Fileta to be
replaced by Mr. Kenneth Ingram Jr.

Bader B. Fileta

Bader B. Fileta
5, Dec, 1990
Principal user Author
660 and # 571
03 / DEC / 1990

Kenneth Ingram Jr.
Kenneth Ingram Jr.

5, Dec 1990
Principal user Author
660 and # 571
03/ DEC / 1990

HSHL-H-HP (385-11h) 1st End

Mr. David W. Burton/ab/427-5107

Health Physics Officer, WRAMC

DEC 20 1990

FOR: Pathology & Lab Services, ATTN: See Distribution

Peter H. Myers

PETER H. MYERS
LTC, MS
Health Physics Officer

DISTRIBUTION:

Bader B. Fileta
Kenneth Ingram Jr.

This Application is given
interim approval until the
next meeting of the RCC
which is scheduled for:.....*FEB 91*

APPROVED BY
RCC

MAR 06 1991

DATE

DATE: 7 Dec 90

Authorization Review Process
Branch Input

Auth # 571/660

	A	T	COMMENTS
1	X	2PMB	Seperated P.N.'s for 571 (maybe later)
2	NA	2PMB	
3	NA	2PMB	
4	NA	AM	
5	NA	AK	
6	NA	ARC	
7	NA	2PMB	
8	X	2PMB	^{called 12/12/90} No isotope experience listed
9	NA	2PMB	
10	NA	ARC	
11	NA	ARC	
12			Put Attn: Distribution then
13			
14			Distribution: Kenneth Ingram
15			Bader Fileta

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- (11) - TS Branch Personnel dosimetry

- (A) - (X) when complete, (O) when pending, and when pending completed
- (B) - Initial of branch representative when complete or pending issues are resolved
- (C) - Comments

04/09/90

TRAINING CARDS DUE

LAST NAME	FIRST NAME	IPRP TC DATE TYPE RD
=====	=====	DATE =====
		=====

** AUTHORIZATION: 571

FILETA BADER

✓ Martinez	Maria	0000 0000	tk
Morales	Vivian	0000 0000	tk
✓ Powell	Laurie	0000 0000	tk
Vick	Randell	0000 0000	tk

* Brisker Joan M.

Harris Haley

- please delete the following name from the technician list of Authorization 571:-

1. Vick Randell
2. Teel, Louise

- please add the following names to the authorization 571 as Technicians:-

1. Harris, Haley
2. Powell, Laurie
3. Morales, Vivian
4. Martinez, Maria

Bader B. Fileta
Bader B. Fileta
Principle user
Authorization # 571
23, April, 1990

HS HL-H-HP

MAY 0 2 1990

MEMORANDUM FOR Pathology & Lab Svcs, ATTN: Dr. Fileta, WRAMC

SUBJECT: Authorization 571



PETER H. MYERS
LTC, MS
C, Helath Physics Office

This Application is given
interim approval until the
next meeting of the RCC
which is scheduled for:.....*JUNE 90*

APPROVED BY
RCC

MAY 2 4 1990

DATE

DATE: 9 MAR 90

Authorization Review Process
Branch Input

Auth # 57

	A	B	COMMENTS
1	Q	DMB	Pending new memo for training cards
2	NA	DMB	
3	NA	DMB	
4	NA	DLC	
5	NA	DLC	
6	NA	RG	
7	Q	DMB	Training cards rec'd 6 Apr 90 different people from called 13 Mar, delivered forms 3/22' original memo.
8	NA	DMB	
9	NA	DMB	
10	NA	RG	
11	NA	RG	
12			
13			
14			
15			

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WRAMC
Audit of Radioactive Material
(In accordance with AR 48-37 & 48-61)

Inspector: C. Collins Date: 6 Dec 89 Auth: 571

1. DA form 1362 [NO] (YES)
2. Within limits [NO] (YES)
3. Inventory Control Officer: Mr. Fileta
Room: T2
4. WRAMC Regulation 48-13 [NO] (YES)
5. WRAMC Authorization on hand [NO] (YES)
6. General Provisions - Terms & Conditions [NO] (YES)
7. LSC - Source No. & Location: N/A
8. WRAMC form 538 - current [NO] (YES)
9. Sink log [NO] (YES)
10. Signs & Labels: OK
11. Personnel (Additions) (Deletions)
Delete: Cyrus Swett
12. General Comments: _____

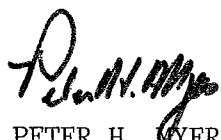
Principal User: Mr. Fileta Authorized Representative:
B. B. Fileta 6, Dec, 1989
Signature Date

HSHL-H-HP

DEC 28 1989

MEMORANDUM FOR Pathology & Lab Svcs, ATTN: Bader Fileta, WRAMC

SUBJECT: Authorization 571



PETER H. MYERS
LTC, MS
Health Physics Officer

This Application is given
interim approval until the
next meeting of the RCC
which is scheduled for: Feb 90

APPROVED BY
RCC

MAR 01 1990

DATE

DATE: 6 Dec 89

Authorization Review Process
Branch Input

Auth # 571

	A	B	COMMENTS
1	X	ZPMB	
2	NA	ZPMB	
3	NA	ZPMB	
4	NA	PLC	
5	NA	PLC	
6	NA	AA	
7	X	AA	
8	NA	ZPMB	
9	NA	ZPMB	
10	NA	AA	
11	X	AA	
12			
13			
14			
15			

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- (11) - TS Branch Personnel dosimetry

- (A) - (X) when complete, (O) when pending, and () when pending completed
- (B) - Initial of branch representative when complete or pending issues are resolved
- (C) - Comments

HSHL-HP

MEMORANDUM FOR Pathology & Lab Svcs, ATTN: Cyrus Swett, WRAMC

SUBJECT: Authorization 571

APPROVED BY

RCC

6 SEP 1989

Gerald M. Connock **DATE**

GERALD M. CONNOCK

MAJ, MS

Health Physics Officer

A PRINCIPAL USERS TRAINING CARD (WRAMC FORM 538) IS
REQUIRED FOR THE FOLLOWING PERSONNEL ON YOUR AUTHORIZATION

LAST NAME

FIRST NAME

** AUTHORIZATION: 571

~~Frisker~~
Dorworth
~~Bader~~
~~Deel~~

Joan M.
Caroline A.
Fileta B.
Louise D.
Chris

Deleted. - Zbick

Need cards on:

Dorworth, Caroline - Delete

Finelli, maria

Vick, Randall. - Delete

Please Delete Dorworth and Vick from Auth. 571

Thank you

Cynthia V. Smith
Principal User

This Application is given
interim approval until the
next meeting of the RCC
which is scheduled for:.....

AUG 1989

DATE: 23 May 89

Authorization Review Process
Branch Input

Auth # 571

	A	B	COMMENTS
1	X	ZMB	
2	NA	ZMB	
3	NA	ZMB	
4	NA	AA	
5	NA	M	
6	NA	Ju	
7	X	Ju	
8	NA	ZMB	
9	NA	ZMB	
10	NA	Ju	
11	NA	Ju	
12			
13			
14			
15			

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- (9) - Fort Detrick - Auth#'s 541, 618, 619, 620, 621 ~~681 to 688~~
- (10) - TS Branch Bioassay
- (11) - TS Branch Personnel dosimetry

- (A) - (X) when complete, (O) when pending, and () when pending completed
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- (C) - Comments

Department of Pathology
Walter Reed Army Medical Center
Washington, D.C. 20307-5001

HSHL-UCP

Memorandum for Health Physics Officer

Subject: Notification of changes to Authorization 571

1-Change Fileta, Bader B. GS-11 from coworker
to Principle user.

2-Add room 2B62 to be used as storage of used radio-
active materials prior to disposal.

3-Add a dump sink in room 2B56 to dump the used
C-14 Bactec bottles prior to disposal.

Cyrus V. Swett

Cyrus V. Swett, Supervisor
Special Chemistry Section

Bader B. Fileta

Bader B. Fileta, GS-11
Group Leader, Spec. Chemistry

3 July 1989

7 AUG 1989

HSHL-HFHP

MEMORANDUM FOR Pathology & Lab Svcs, ATTN: Cyrus Swett

SUBJECT: Authorization 571

APPROVED BY

RCC

6 SEP 1989

DATE

This document is given
to the officer until the
next meeting of the RCC
which is scheduled for: *5 Sep 1989*

Gerald M. Connock

GERALD M. CONNOCK
MAJ, MS
Health Physics Officer

DATE: 11 July 89

Authorization Review Process
Branch Input

Auth # 571

	A	B	COMMENTS
1	X	DNB	
2	NA	DNB	
3	NA	DNB	
4	NA X	DNB	
5	NA	DNB	
6	X	AA	
7	NA	AA	
8			
9	NA	DNB	
10	NA	AA	
11	NA	AA	
12			
13			
14			
15			

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- (11) - TS Branch Personnel dosimetry

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- (C) - Comments

3HL-H-HP (385-11m)

SUBJECT: Authorization 571

TO Mr. Cyrus Swett
Pathology & Lab Svcs
WRAMC (Rm 2B62)

FROM Health Physics office
WRAMC

DATE 22 JUN 1989 CMT 2
Mr. Burton/acp/75104

APPROVED BY

RCC

6 SEP 1989

DATE

Gerald M. Connock

GERALD M. CONNOCK

MAJ, MS

Health Physics Officer

HEALTH PHYSICS OFFICE
WALTER REED ARMY MEDICAL CENTER
Washington, D.C. 20307-5001

HSHL-HP (385-11a)
MEMORANDUM FOR:

Auth #

Mr. Swett

571

SUBJECT: Deletion of Room from Authorization

1. Due to severe personnel shortage, the Health Physics Office has had to curtail all non-essential services so that the available personnel can focus their attention upon the services required to support the WRAMC NRC License.
2. Three consecutive months of room surveys by this office and interviews with your lab personnel, have shown no usage of radioactive materials in Room 2B62, Building 2. Therefore, this room is hereby deleted from your authorization.
3. Disposition of radioisotopes must be indicated by checking one of the options listed below.
4. If you do not wish to have the above listed room deleted from your authorization, check and complete option E.
5. If there are any questions concerning deletion of this room, please contact SSG Lewis or Mr. Burton at 427-5107/5104.

This Application is given
intention approval until the
next meeting of the HCC
which is scheduled for Aug 89

Gerald M. Connock
GERALD M. CONNOCK
MAJ, MS
Health Physics Officer

HSHL-UCP

MEMORANDUM FOR: Health Physics Officer, WRAMC

1. I acknowledge receipt of this notification.
2. As of 6/6/89 (date):
 - A. ☒ There is no radioactive material in this room.
 - B. ☐ All radioactive material in this room will be transferred to Room , Bldg , which is listed on my authorization.
 - C. ☐ All radioactive material in this room will be transferred to auth .

D. _____ All radioactive material in this room will be transferred to Health Physics for disposal.

E. _____ I intend to start using radioactive material in this room:

1. Date: _____

2. Duration of use: From: _____ To: _____

3. Radioisotopes(s) to be used: _____

Cyril V. Swift
Principal User

571

Auth

6/6/89
Date

HEALTH PHYSICS OFFICE
WALTER REED ARMY MEDICAL CENTER
Washington, D.C. 20307-5001

HSHL-HP (385-11a)
MEMORANDUM FOR:

Mr. Swett
Auth # 571

SUBJECT: Deletion of Room from Authorization

1. Due to severe personnel shortage, the Health Physics Office has had to curtail all non-essential services so that the available personnel can focus their attention upon the services required to support the WRAMC NRC License.

2. Three consecutive months of room surveys by this office and interviews with your lab personnel, have shown no usage of radioactive materials in Room 2B53, Building 2. Therefore, this room is hereby deleted from your authorization.

3. Disposition of radioisotopes must be indicated by checking one of the options listed below.

4. If you do not wish to have the above listed room deleted from your authorization, check and complete option E.

5. If there are any questions concerning deletion of this room, please contact SSG Lewis or Mr. Burton at 427-5107/5104.

This Application is given
interim approval until the
next meeting of the ROC
which is scheduled for:

Gerald M. Connock
GERALD M. CONNOCK
MAJ, MS
Health Physics Officer

HSHL- UCP

MEMORANDUM FOR: Health Physics Officer, WRAMC

1. I acknowledge receipt of this notification.

2. As of 6/6/89 (date):

A. ☒ There is no radioactive material in this room.

B. ☐ All radioactive material in this room will be transferred to Room , Bldg , which is listed on my authorization.

C. ☐ All radioactive material in this room will be transferred to auth .

Alex V. Swett 571 6/6/89
Principal User Auth Date

HEALTH PHYSICS OFFICE
WALTER REED ARMY MEDICAL CENTER
Washington, D.C. 20307-5001

HS HL-HP (385-11a)
MEMORANDUM FOR:

Mr. Swett
Auth # 571

SUBJECT: Deletion of Room from Authorization

1. Due to severe personnel shortage, the Health Physics Office has had to curtail all non-essential services so that the available personnel can focus their attention upon the services required to support the WRAMC NRC License.

2. Three consecutive months of room surveys by this office and interviews with your lab personnel, have shown no usage of radioactive materials in Room 2B59, Building 2. Therefore, this room is hereby deleted from your authorization.

3. Disposition of radioisotopes must be indicated by checking one of the options listed below.

4. If you do not wish to have the above listed room deleted from your authorization, check and complete option E.

5. If there are any questions concerning deletion of this room, please contact SSG Lewis or Mr. Burton at 427-5107/5104.

This Application is given
interim approval until the
next meeting of the RCC
which is scheduled for: 6/6/89

Gerald M. Connock
GERALD M. CONNOCK
MAJ, MS
Health Physics Officer

HS HL- UCP

MEMORANDUM FOR: Health Physics Officer, WRAMC

1. I acknowledge receipt of this notification.

2. As of 6/6/89 (date):

A. ☒ There is no radioactive material in this room.

B. ☐ All radioactive material in this room will be transferred to Room , Bldg , which is listed on my authorization.

C. ☐ All radioactive material in this room will be transferred to auth .

E. _____ I intend to start using radioactive material in this room:

1. Date: _____

2. Duration of use: From: _____ To: _____

3. Radioisotopes(s) to be used: _____

Cyrus V. Swett
Principal User

571

Auth

6/6/80

Date _____

DATE: 7 JUN 89

Authorization Review Process
Branch Input

Auth # 571

	A	B	COMMENTS
1	X	ZPMB	
2	NA	ZPMB	
3	NA	ZPMB	
4	NA	AA	
5	X	AA	
6	X	Gm	
7	X	Gm	
8	NA	ZPMB	
9	NA	ZPMB	
10	NA	Gm	
11	NA	Gm	
12			
13			
14			
15			

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 - (11) - TS Branch Personnel dosimetry
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- (A) - (X) when complete, (O) when pending, and () when pending completed
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 - (C) - Comments

HSHL-HP

APR 07 1989

MEMORANDUM FOR Pathology & Lab Svcs, Mr. Swett

SUBJECT: . Authorization 571

This Application is given
interim approval until the
next meeting of the RCC **JUN** 1989
which is scheduled for:.....

Gerald M. Connock
GERALD M. CONNOCK
MAJ, MS
Health Physics Officer

**APPROVED BY
RCC**

MAY 22 1989
DATE /

02/17/89

TRAINING CARDS DUE (RMC-MS COLLINS)

<u>LAST NAME</u>	<u>FIRST NAME</u>	<u>IPRP</u>	<u>TC</u>	<u>DATE</u>	<u>TYPE</u>	<u>RD</u>
------------------	-------------------	-------------	-----------	-------------	-------------	-----------

** AUTHORIZATION: 571 MR CYRUS SWETT

-Bader	Fileta B.	8811	0000	co	06	
-Brisker	Joan M.	8811	8706	tk	06	
Dorworth	Caroline A.	NO	8706	tk	06	
-Teel	Louise D.	8811	8706	tr	06	
Zbick	Chris	NO	0000	tk	06	

Please Eliminate Zbick, Chris from the authorization

Please add Finelli, Maria R. and Vick, Randall G. to the authorization as Technicians.

Called Swett to verify this amendment 5 Apr 89 DMB

DATE: 4 APR 89

Authorization Review Process
Branch Input

Auth # 571

	A	B	COMMENTS
1	X	ZMB	
2	NA	ZMB	
3	NA	ZMB	
4	NA	AS	
5	NA	AS	
6	NA	Bm	
7	X	Bm	
8	NA	ZMB	
9	NA	ZMB	
10	NA	Bm	
11	X	Bm	
12			
13			
14			
15			

Index of Numbers and Symbols used above:

- (1) - Forms (WRAMC 1661R, 1662R, 1643) (Completed/typed)
 - (2) - Protocol (Required for: 3-H, 32-P, 125-I, 131-I, and all others deemed necessary by - amounts, activity, or use. (Reference NBS Handbook #92)
 - (3) - Isotopes (within limits for NRC License/personnel qualifications)
 - (4) - OPS Branch room pre-survey
 - (5) - OPS Branch room final survey
 - (6) - TS Branch instrumentation assignment
 - (7) - Training - WRAMC Form 538 (Completed by users annually)
 - (8) - Training - WRAMC Form 1643 (Training and Experience Form)
 - (9) - Fort Detrick - Auth#'s 541, 618, 619, 620, 621
 - (10) - TS Branch Bioassay
 - (11) - TS Branch Personnel dosimetry
- (A) - (X) when complete, (O) when pending, and () when pending completed
 - (B) - Initial of branch representative when complete or pending issues are resolved
 - (C) - Comments

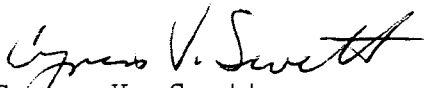
Department of Pathology
Walter Reed Army Medical Center
Washington, D.C. 20307-5001

HSHL-UCP

Memorandum for Health Physics Officer

Subject: Deficiency of 2-9 June 1989 Audit.

The trainees and technicians have been counselled on the importance of keeping an accurate record of the receipt and use of radioactive materials. They have been instructed on the use of DA-3862, "Controlled Substance Stock Record" and an inventory record has been set up for the section.


Cyrus V. Swett
Principle userAuth # 571

3 July 1989

POSITION FORM

For use of this form, see AR 340-15; the proponent agency is TAGO.

REFERENCE OR OFFICE SYMBOL HSHL-IP	SUBJECT Research Protocol for Isotope Named in the Application for Use of Radioactive Material Authorization # <u>571</u>
---	--

TO Health Physics Officer WRAMC	FROM <u>Cyrus V. Swift</u> Principal User Auth. #571	DATE <u>3-22-88</u>	CMT 1
------------------------------------	---	---------------------	-------

a. <u>Principal User</u> <u>Cyrus V. Swift</u>	<u>Telephone Number</u> <u>576-4368</u>	<u>Authorization Number</u> <u>571</u>
---	--	---

b. <u>Investigator & Auth#</u> (If different than (a.))	c. <u>Trainee & Auth#</u> <u>Dorworth, Caroline</u> <u>Brisker, Joan</u> <u>Teel, Louise</u>	d. <u>Technician & Auth#</u> <u>Zbiek, Chris</u>
--	---	---

e. <u>Radioisotope</u> <u>I 125</u>	<u>Physical/Chemical form</u> <u>Bacterial DNA.</u>	<u>Maximum Quantity to be used</u> <u>per Experiment in millicuries</u> (mCi) <u>40 mCi</u>
--	--	--

f. <u>Title of Project:</u> <u>Genetic Probe of Bacterial DNA.</u>	<u>Maximum Quantity to be used</u> <u>for Entire Project (if known)</u> <u>in millicuries (mCi)</u>
---	---

g. <u>Beginning Date:</u> <u>29 March 1987</u>	h. <u>Ending Date:</u> <u>Indefinite</u>	i. <u>Repetitive Study</u> <u>Yes</u> No
---	---	---

j. Life Cycle of Radioisotope Utilized for Research Procedure:

(Use block/flow diagram to show (where, how much, whose, etc.,) isotope travel from receipt to disposal.)

Received as a kit from Gen-Probe. Aqueous and sol. I portion, i.e., tubes and protein are stored and transferred to Health Physics collection point at Bldg. 2 loading Dock.

q. Radioactive Waste Disposal

All radioactive waste will be transferred to Health Physics Office in accordance with Health Physics Condition No. 4.

r. Room Survey

All room surveys will be conducted in accordance with Health Physics Condition No. 2.

s. Personnel Dosimetry

Whole Body ☐

Wrist Badge ☐

TLD Ring ☐

will be requested in accordance with Health Physics Condition No. 1.
Assigned dosimetry monitors will be worn by all participating personnel.

- t. Are there any significant non-radiation personnel hazards associated with experiments; (Biological; Explosive, Toxic substances, High Intensity Optical sources, Microwaves, or Electrical) that would effect Health Physics personnel during there routine inspections of these areas.

☒ No

☐ Yes(Please specify)

The Research Protocol enumerated above and on the previous pages is designed to ensure that occupational radiation exposures and release of radioactive effluents to the environment will be "as low as reasonably achievable" (ALARA) during all phases of the research procedure.

Cyrus V. Swett 3/22/88
Signature Date

REFERENCE OR OFFICE SYMBOL HSHL-MP		SUBJECT Research Protocol for Isotope Named in the Application for Use of Radioactive Material Authorization # <u>571</u>	
Heal. Physics Officer WRAMC		FROM <u>Cyrus V. Swett</u> Principal User Auth. # 571	DATE <u>3-16-87</u> CMT
a. <u>Principal User</u> <u>Cyrus V. Swett</u>	<u>Telephone Number</u> <u>576-4368</u>	<u>Authorization Number</u> <u>571</u>	
b. <u>Investigator & Auth#</u> (If different than (a.))	c. <u>Trainee & Auth#</u> <u>Novice, Cynthia</u> <u>Thiede, Peter</u> <u>Lariviere, Edward</u> <u>Teel, Louise</u> <u>Gosey, Linda</u>	d. <u>Technician & Auth#</u> <u>Listed on WR 1662R</u> <u>for Auth. # 571</u>	
e. <u>Radioisotope</u> <u>I 125</u>	<u>Physical/Chemical form</u> <u>Bacterial DNA</u>	<u>Maximum Quantity to be used</u> <u>per Experiment in millicuries</u> <u>(mCi)</u> <u>none</u> <u>40 mCi</u>	
f. <u>Title of Project:</u> <u>Genetic Probe studies of</u> <u>Bacterial DNA.</u>		<u>Maximum Quantity to be used</u> <u>for Entire Project (if known)</u> <u>in millicuries (mCi)</u>	
g. <u>Beginning Date:</u> <u>29th March</u>	h. <u>Ending Date:</u> <u>6 month trial if</u> <u>adopted is definit.</u>	i. <u>Repetitive Study</u> <u>Yes</u> <u>No</u>	

j. Life Cycle of Radioisotope Utilized for Research Procedure:

(Use block/flow diagram to show (where, how much, whose, etc.), isotope travel from receipt to disposal.)

Received as a kit from Gen-Probe.
 and
 aqueous portion ~~compared to~~, solid
 portion i.e. tubes and protein are stored and
 transferred to Health Physics collection pts
 Bldg. ~~1111~~ #2 loading Dock

k. Labelling and Transport of Radioactive Material

All radioactive solutions, tissues, animals and waste will be identified by proper label, in accordance with Health Physics Condition No. 4. Transport of radioactive material between authorized work areas and waste disposal sites will be conducted in a manner that precludes the spread of contamination and inadvertent exposure to non-participating personnel.

1. Laboratory Animal Usage

Species

None

Bldg#

Room#

m. Disposition of Animals



Not Applicable



Animals will be sacrificed and carcasses will be disposed of as radioactive waste.



Other (Specify)

n. Isotope Utilization Locations

Building # 2

Room # 2B53

Max. Amt (mCi)

2

2B53

2 mCi

Location 2

Location 3

Location 4

o. Isotope Storage Location

Building # 2

Room # 2B53

Max. Amt. (mCi)

2

2 mCi

p. Isotope Waste Storage Locations

(1) Biological: Bldg# 2

Room# 2B53

(2) All other: Bldg#

Room#



All radioactive waste will be transferred to the Health Physics collection point, WRAMC (Bldg 2 (NMFF) - loading dock) (1330 to 1430) Wednesday of each week.



All radioactive waste will be transferred to the Health Physics collection point, WRAIR (Bldg 40 - Room B079) Open Monday, Wednesday, & Friday 1030 to 1130.



All radioactive waste will be transferred to the Health Physics collection point, WRAIR (Forest Glen Section) every Wednesday afternoon.

q. Radioactive Waste Disposal

All radioactive waste will be transferred to Health Physics Office in accordance with Health Physics Condition No. 1.

r. Room Survey

All room surveys will be conducted in accordance with Health Physics Condition No. 2.

s. Personnel Dosimetry

Whole Body ☐

Wrist Badge ☐

FLD Ring ☐

Will be requested in accordance with Health Physics Condition No. 1.
Assigned dosimetry monitors will be worn by all participating personnel.

- t. Are there any significant non-radiation personnel hazards associated with experiments; (Biological, Explosive, Toxic substances, High Intensity Optical sources, Microwaves, or Electrical) that would affect Health Physics personnel during there routine inspections of these areas.



No.



Yes (Please specify)

The Research Protocol enumerated above and on the previous pages is designed to ensure that occupational radiation exposures and release of radioactive effluents to the environment will be "as low as reasonably achievable" (ALARA) during all phases of the research procedure.

Cyrus V. Swett
Signature

3/25/87
Date

APPROVED BY

second notice 3 Mar 87

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

1. APPLICATION FOR:	NEW AUTHORIZATION	<input checked="" type="checkbox"/> RENEWAL OF AUTHORIZATION NUMBER	AMENDMENT TO AUTHORIZATION NUMBER
---------------------	-------------------	---	-----------------------------------

DATE

571

2. APPLICANT'S NAME (Last, First, MI) (Principal User)

OHASHI, DAVID K. LTC MSC
~~DANIEL JAMES J.~~ Sweet, Cyllis V.

3. APPLICANT'S MAILING ADDRESS (Include Organization)

DEPARTMENT OF PATH AND AREA LAB SVCS

TELEPHONE NUMBER

576 1997/1994 (576-1294 OFFICE) 576-4965
4366/67/68

(IF MORE SPACE IS NEEDED FOR ANY ITEM, USE ADDITIONAL PROPERLY KEYED PAGES.)

4. List all CO-WORKERS

5. List all TRAINEES

6. List all TECHNICIANS

GARIS MJ
BARNES C PFC
JENKINS A SP4
POWELL L SP4
ALMAZAN RBENSON PAULA
BRISKER J
BROWN S
COGGESHALL P
DUDLEY TFULLER S
GOLDENBERG S
KOPKA A
KRUCZAK P
STRONG S
VINTON KJ
WHITE IM
WHITE J
WILLIAMS D
ZBICK, C

7. LOCATIONS WHERE MATERIAL WILL BE USED: (Building and Associated Rooms)

Bldg 2 (NMTR) Room 2B53

8. LOCATIONS WHERE MATERIAL WILL BE STORED: (Building and Associated Rooms)

Bldg 2 Rm 2B53, Bldg 2 Rm 2B62*, Bldg T2 Rm 256 Bldg 2 2B81D Autoclave Room*
" " 2B56, " 2B59

9. RADIOACTIVE WASTE DISPOSAL SINK IN ROOM:

none

D. RADIOACTIVE MATERIAL DATA

A. RADIOISOTOPE	B. CHEMICAL AND/OR PHYSICAL FORM (Sealed or Unsealed)	C. POSSESSION LIMIT	D. USE
14C	liquid bactec vials, DNA glucose	25mCi	Detection of bacterial growth.
63Ni	SEALED SOURCES (2 ea) 15mCi each	30mCi	GAS CHROMATOGRAPHS 63Ni-024 + 63Ni-025

DISPOSITION FORM

For use of this form, see AR 340-15; the proponent agency is TAGO.

REFERENCE OR OFFICE SYMBOL

HL-U

SUBJECT

Principal User of Radioactive Materials

TO C, Health Physics

FROM C, DPALS

DATE 26 Sept 1986

CMT 1

Campbell/ejc/61295

1. Effective immediately and until further notice, Cyrus V. Sweet, GS-12 Chemist, is appointed as Principal User for Radioactive Materials, Authorization No. 571.
2. All previous appointees to this Authorization are rescinded.

Harold N. Harrison

HAROLD N. HARRISON

COL, MC

Acting Chief, Department of
Pathology and Area Laboratory
Services

HSHL-HP

TO COL Harrison
Acting Chief,
Dept of Path & Area Labor Svc

FROM Health Physics Office
WRAMC

DATE **14 OCT 1986** CMT 2
SFC Conners/pdc/75104

This Application is given
interim approval until the
next meeting of the RCC
which is scheduled for: *Nov 86*

C-14 25m

Gerald M. Connock

GERALD M. CONNOCK

MAJ, MS

Health Physics Officer

APPROVED BY
RCC *18 Nov 86*
DATE

DATE: 8 Oct 86

Authorization Review Process
Branch Input

Auth #

	A	B	COMMENTS
1	X	JSL	
2	F	JSL	
3	X	JSL	
4	X	JSL	
5	X	JSL	
6	X	JSL	
7	X	JSL	
8	X	JSL	
9	N/A		
10	X	JSL	
11	X	JSL	
12			
13			
14			
15			

Index of Numbers and Symbols used above:

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 - (3) - Isotopes (within limits for NRC License/personnel qualifications)
 - (4) - OPS Branch room pre-survey
 - (5) - OPS Branch room final survey
 - (6) - TS Branch instrumentation assignment
 - (7) - Training - WRANC Form 538 (Completed by users annually)
 - (8) - Training - WRANC Form 1643 (Training and Experience Form)
 - (9) - Forts Detritals - Auth #s 547, 618, 619, 620, 621
 - (10) - TS Branch Bioassays
 - (11) - TS Branch Personnel dosimetry
- (A) - (X) when complete, (O) when pending, and () when pending completed
- (B) - Initial of branch representative when complete or pending issues are resolved
- (C) - Comments

DISPOSITION FORM

For use of this form, see AR 340 15, the proponent agency is TAGO

REFERENCE OR OFFICE SYMBOL

HSHL-UCP

SUBJECT

Radiation Control Update

TO Health Physics, WRAMC
ATTN: Mr. Stafford

FROM Radiation Control Off
DPALS, WRAMC

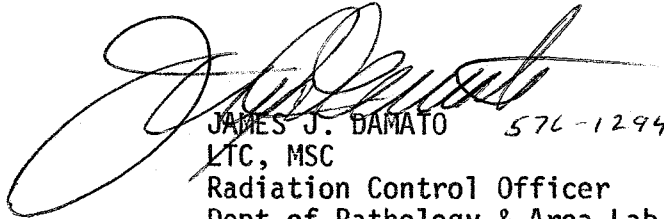
19 Jul 85

CMT 1

LTC Damato/jh/61994

1. Due to the reassignment of LTC David Ohashi to Dept of Clinical Investigation, LTC James J. Damato has been designated as the "Principle User" for Department of Pathology and Area Laboratory Services.

2. It is requested that two (2) gas chromatographs using N. 63 sources be authorized. These instruments are designated as HP 63-N. 024 and HP 63-N. 025 and are located in Bldg 2, Rm 2B51


JAMES J. DAMATO 576-1294
LTC, MSC
Radiation Control Officer
Dept of Pathology & Area Lab Svcs

HSHL-HP


TO LTC James J. DAMATO
Dept of Path & Area Lab Svcs

FROM Health Physics Officer
WRAMC

18 DEC 1985

CMT 2

This Application is given
interim approval until the
next meeting of the RCC
which is scheduled for: FEB 86


GERALD M. CONNOCK
MAJ, MS
Health Physics Officer

APPROVED BY

RCC

18 Jul 86

DATE

AUTHORIZATION ISOTOPE INVENTORY
(The Principle User's signature on the bottom of this form
indicates that a physical inventory of the isotopes listed
has been performed.)

HPO TAG NUMBER	CHEMICAL FORM	DATE RECEIVED	ORIGINAL ACTIVITY IN MILLICURIES	NEW ACTIVITY IN MILLICURIES	LAST UPDATED ACTIVITY IN MILLICURIES	VENDOR	PURCHASE ORDER NUMBER	CALL NO	REMA
** Authorization Number: 571									
* Total Millicuries I-125									
42610	MTB	05/09/91	0.0010	<u>NONE</u>	0.0010	GEN-PROBE	DADA1591P5677		
42791	MTB	06/06/91	0.0010	<u>NONE</u>	0.0010	GEN-PROBE	DADA1591P5677		
42792	MAC X 3	06/06/91	0.0030	<u>NONE</u>	0.0030	GEN-PROBE	DADA1591P5677		
42793	MGO	06/06/91	0.0010	<u>NONE</u>	0.0010	GEN-PROBE	DADA1591P5677		
* Subsubtotal *			0.0060		0.0060				
* Total Millicuries NONRAD									
42746	TUBING X 12	06/03/91	0.0000	<u>NONE</u>	0.0000	HYBRITECH	NO CHARGE		
* Subsubtotal *			0.0000		0.0000				
** Subtotal **			0.0060		0.0060				
*** Total ***			0.0060		0.0060				

Kenneth Chappell 9/23/91

AUTHORIZATION ISOTOPE INVENTORY

HPO TAG NUMBER	CHEMICAL FORM	DATE RECEIVED	ORIGINAL ACTIVITY IN MILLICURIES	NEW ACTIVITY IN MILLICURIES	LAST UPDATED ACTIVITY IN MILLICURIES	VENDOR	PURCHASE ORDER NUMBER	CALL NO	REMA
<i>Audit 5 Dec 90</i>									

** Authorization Number: 571

* Total Millicuries I-125

MTB KITS X 12	05/31/90	0.0120	<u>0</u>	0.0120	GEN-PROBE			DELIV T 2
39126 MAC CUL KIT X 4	11/09/89	0.0040	<u>0</u>	0.0010	GEN-PROBE	DADA1589M0184		
39356 MAC 4 KITS	12/07/89	0.0040	<u>0</u>	0.0040	GEN-PROBE	DADA1589MB474		
39357 MTB 2 KITS	12/07/89	0.0020	<u>0</u>	0.0020	GEN-PROBE	DADA1589MB474		
39358 MGO 3 KITS	12/07/89	0.0030	<u>0</u>	0.0030	GEN-PROBE	DADA1589MB474		
40809 MAC X 3	07/06/90	0.0030	<u>0</u>	0.0030	GEN PROBE	DADA1590M6508		
40810 MTB	07/06/90	0.0010	<u>0</u>	0.0010	GEN PROBE	DADA1590M6508		
40811 MGO	07/06/90	0.0010	<u>0</u>	0.0010	GEN PROBE	DADA1590M6508		
41011 MAC X 3	08/06/90	0.0030	<u>0</u>	0.0030	GEN-PROBE	DADA1590M6508		
41012 MTB	08/06/90	0.0010	<u>0</u>	0.0010	GEN-PROBE	DADA1590M6508		
41013 MGO	08/06/90	0.0010	<u>0</u>	0.0010	GEN-PROBE	DADA1590M6508		
41220 MAC X 3	09/06/90	0.0030	<u>0</u>	0.0030	GEN PROBE	DADA1590M6508		
41221 MTB	09/06/90	0.0010	<u>0</u>	0.0010	GEN PROBE	DADA1590M6508		
41222 MGO	09/06/90	0.0010	<u>0</u>	0.0010	GEN PROBE	DADA1590M6508		
41389 MAC	10/03/90	0.0020	<u>0</u>	0.0020	GEN-PROBE	DADA1590M6508		
41390 MTB	10/03/90	0.0020	<u>0</u>	0.0020	GEN-PROBE	DADA1590M6508		
41391 MGO	10/03/90	0.0010	<u>0.001</u>	0.0010	GEN-PROBE	DADA1590M6508		
41583 MAC X 3	11/07/90	0.0030	<u>0</u>	0.0030	GEN-PROBE	DADA1590M6508		
41584 MTB	11/07/90	0.0010	<u>0</u>	0.0010	GEN-PROBE	DADA1590M6508		
41585 MGO	11/07/90	0.0010	<u>0.002</u>	0.0010	GEN-PROBE	DADA1590M6508		
* Subsubtotal *		0.0500		0.0470				

* Total Millicuries NONRAD

40644	06/06/90	0.0000		0.0000	GENPROBE	DADA1590M0821		
40931 3SPACE,3TUBES	07/25/90	0.0000		0.0000	GEN-PROBE	DADA1590M0821		12SPECI KITS
41219	09/06/90	0.0000		0.0000	GEN PROBE	DADA1590M0821		
* Subsubtotal *		0.0000		0.0000				
** Subtotal **		0.0500		0.0470				
*** Total ***		0.0500		0.0470				

JS for B. F. L.

AUTHORIZATION ISOTOPE INVENTORY

HPO TAG NUMBER	CHEMICAL FORM	DATE RECEIVED	ORIGINAL ACTIVITY IN MILLICURIES	NEW ACTIVITY IN MILLICURIES	LAST UPDATED ACTIVITY IN MILLICURIES	VENDOR	PURCHASE ORDER NUMBER	CALL NO	REMA
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Audit 31 MAY 90

** Authorization Number: 571

* Total Millicuries I-125

39126	MAC CUL KIT X 4	11/09/89	0.0040	<i>0</i>	0.0010	GEN-PROBE	DADA1589M0184		
39356	MAC 4 KITS	12/07/89	0.0040	<i>0.004</i>	0.0040	GEN-PROBE	DADA1589MB474		
39357	MTB 2 KITS	12/07/89	0.0020	<i>0.002</i>	0.0020	GEN-PROBE	DADA1589MB474		
39358	MGO 3 KITS	12/07/89	0.0030	<i>0.003</i>	0.0030	GEN-PROBE	DADA1589MB474		
39622	MTB (2 KITS)	01/16/90	0.0020	<i>0</i>	0.0020	GEN-PROBE	DADA1589MB474		
39623	MGO (3 KITS)	01/16/90	0.0030	<i>0</i>	0.0030	GEN-PROBE	DADA1589MB474		
39624	MAC (4 KITS)	01/16/90	0.0040	<i>0</i>	0.0040	GEN-PROBE	DADA1589MB474		
40071	MGO X 1	03/15/90	0.0010	<i>0</i>	0.0010	GEN-PROBE	DADA1590M4076		
* Subsubtotal *			0.012	0.012	0.012	Gen-Probe	<i>Delivered to Bldg 2</i>		
<i>MTB (12 Kits) May 90</i>			0.0230		0.0200				

* Total Millicuries NONRAD

39425		12/18/89	0.0000		0.0000	GEN-PROBE	DADA1590M1442		
40012	PACE X 5	03/08/90	0.0000		0.0000	GEN-PROBE	DADA159003545		
40013	TUBES X 5	03/08/90	0.0000		0.0000	GEN-PROBE	DADA159003545		
40106	CULTURE KIT	03/21/90	0.0000		0.0000	GEN-PROBE	DADA1590M4860		
40233	PACE X 3, TUBE X	04/05/90	0.0000		0.0000	GEN-PROBE	DADA1590M0821		3, SPECI
40379	SPECIMEN COLLEC	04/27/90	0.0000		0.0000	GEN-PROBE	DADA1590M6410		X12
* Subsubtotal *			0.0000		0.0000				

** Subtotal **

*** Total ***

0.0230	0.0200
0.0230	0.0200

Renewed contract, packages were delivered directly to Bldg 2.
~~Plans~~ plans to send kits back to manufacturer

12 MTB Kits 0.012 mCi

Kits will be used @ WRAmc

Gen-Probe (1 mCi each)
Butler B. F. L.

20 MAR 1990

MEMORANDUM FOR Chief, Dept. of Path and ALS, ATTN: HSHL-U
(1LT Gigliotti), WRAMC

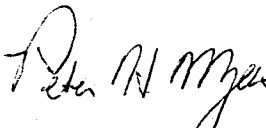
SUBJECT: Bactec Vials

1. Walter Reed Army Medical Center has applied for and received a Registration Certificate-In Vitro Testing with Byproduct Material under General License (Registration Number 6158). A General License allows hospitals to possess certain small quantities of byproduct material for in vitro clinical or laboratory tests not involving the internal or external administration of the byproduct material or the radiation therefrom to human beings or animals.

2. The conditions and limitations of a General License are delineated in 10CFR31.11 (see encl 1). I have highlighted the sections which specifically apply to the bactec vial operation. If we meet all the conditions in (a) through (e), then (f) applies and we are exempt from the requirements of 10CFR parts 19 and 20, which include disposal of "radioactive waste".

3. Under the General License the bactec vial waste may be handled without regard to its radioactivity except any label saying "radioactive" or any radiation symbol must be defaced or removed prior to disposal.

Encl
as



PETER H. MYERS
LTC, MS
Health Physics Officer

AUTHORIZATION ISOTOPE INVENTORY

HPO TAG NUMBER	CHEMICAL FORM	DATE RECEIVED	ORIGINAL ACTIVITY IN MILLICURIES	NEW ACTIVITY IN MILLICURIES
=====				

Audit 12/6/89

** Authorization Number: 571

* Total Millicuries I-125

38123		06/21/89	0.0020	0
38127		06/20/89	0.0060	0
38478		08/09/89	0.0050	0
38524		08/16/89	0.0025	0
38571		08/25/89	0.0040	0
38593		08/29/89	0.0050	0
38689	MAC 12T X 4	09/08/89	0.0040	0 0.001 0
38690	MTB 12T X 1	09/08/89	0.0010	0
38900	CULTURE KIT	10/04/89	0.0050	0
38945	MBO KIT	10/11/89	0.0030	0 660
39114	HGH 100 TANDEM	11/07/89	0.0200	0 660
39126	MAC CUL KIT X 4	11/09/89	0.0040	0.001
39127	MTB CUL KIT X 1	11/09/89	0.0010	0

* Subsubtotal *

0.0625

Baker B. F.
6, Dec, 89

* Total Millicuries NONRAD

38378		07/26/89	0.0000	?
38342	TUBES	09/28/89	0.0000	?

* Subsubtotal *

0.0000

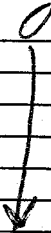
** Subtotal **

0.0625

*** Total ***

0.0625

AUTHORIZATION ISOTOPE INVENTORY

HPO TAG NUMBER	PURCHASE ORDER & CALL NUMBER	DATE RECEIVED	ORIGINAL ACTIVITY IN MILLICURIES	NEW ACTIVITY IN MILLICURIES
=====	=====	=====	=====	=====
** Authorization Number: 571				
* Total Millicuries I-125				
37010	DADA1589M0184	01/06/88 ✓	0.0050	
37225	DADA1589M0184	02/09/89	0.0040	
37412	DADA1589M0184	03/09/89	0.0050	
37468	EVALUATION	03/16/89	0.0200	
37614	DADA1589M0184	04/05/89 ✓	0.0050	
37827	DADA1589M0184	05/05/89	0.0050	
37858	REPLACEMENT	05/12/89 ✓	0.0100	
* Subsubtotal *			0.0540	
* Total Millicuries NONRAD				
36853	DADA1589M0184	12/09/88	0.0000	
37899	DADA1589M5870	05/18/89	0.0000	
* Subsubtotal *			0.0000	
** Subtotal **			0.0540	
*** Total ***			0.0540	

Agnes V. Sweett
6/9/89

AUTHORIZATION ISOTOPE INVENTORY

HPO TAG NUMBER	PURCHASE ORDER & CALL NUMBER	DATE RECEIVED	ORIGINAL ACTIVITY IN MILLICURIES	NEW ACTIVITY IN MILLICURIES
<hr/>				

Audit 12/15/88

** Authorization Number: 571

* Total Millicuries I-125

36663 DADA1588MA071

11/08/88

0.0040

0

* Subsubtotal *

0.0040

** Subtotal **

0.0040

*** Total ***

0.0040

Cyrus V. Swett

12/15/88

AUTHORIZATION ISOTOPE INVENTORY

HPO TAG NUMBER	PURCHASE ORDER & CALL NUMBER	DATE RECEIVED	ORIGINAL ACTIVITY IN MILLICURIES	NEW ACTIVITY IN MILLICURIES
=====	=====	=====	=====	=====

* Subsubtotal *

Auth 571

0.0000

** Subtotal **

0.0000

*** Total ***

0.0000

CONTROLLED SUBSTANCES STOCK RECORD

For use of this form, see AR 40-2; the proponent agency is Office of The Surgeon General.

3

STOCK NUMBER

DESCRIPTION

14-C
Blood Bank & Pathology Serv.
08-01738-02 / 571

CONVERSION FACTOR

UNIT AS RECEIVED

ACCOUNTABLE UNIT

DATE	DEBIT (Receipts)	DEBIT (VO.) OR CREDIT (RX) NO	CREDIT (Expenditures)	BALANCE ON HAND	DATE	DEBIT (Receipts)	DEBIT (VO.) OR CREDIT (RX) NO	CREDIT (Expenditures)	BALANCE ON HAND
3 Dec 84	1.162 mCi	DADA 1584 C0028	29492	885417	26 Sep 86	1.2 mCi	DADA 1586 C0011	32503	215186
10 Dec 84	0.6 mCi	DADA 1584 C0028	29521	885417-001	27 Oct 86	5.18 mCi	DADA 1586 C-0011	32631	32621
21 Dec 84	40 mCi	DADA 1584 C0028	29591	885417-002	22 Jul 87	4.608 mCi	DADA 1586 M6019	33964	—
1 Apr 85	5.76 mCi	DADA 1585 M 6617	29988	938612					
26 Apr 85	5.76 mCi	DADA 1585 M 8005	30112						
7 Jun 85	5.8 mCi	DADA 1585 M9617	30315	974024					
9 Aug 85	2.88 mCi	DADA 1585 MB791	30621	4612					
30 Aug 85	5.76 mCi	DADA 1585 M0195	30714	015862					
10 Oct 85	5.8	M0156	30893	36559					
4 Dec 85	5.18	DADA 1585 M1875	31091	058431					
3 Jan 86	5.76	DADA 1586 M2096	31188	074148					
4 Mar 86	1.2006	DADA 1586 C0011	31446	107745					
4 Apr 86	5.184 mCi	DADA 1586 C0011	31595						
24 Apr 86	5.184 mCi	DADA 1586 C0011	31714	136472					
23 May 86	5.184 mCi	DADA 1586 C0011	31872	143931					
3 Jul 86	5.184 mCi	DADA 1586 C0011	32078	168835					
22 Aug 86	5.184 mCi	DADA 1586 C0011	32334						

DA FORM 3862
1 JUNE 72

REPLACES DA FORM 8-235, 1 AUG 51 WHICH IS OBSOLETE