

MATERIALS LICENSE
SUPPLEMENTARY SHEET

OFFICIAL RECORD COPY

License Number

SNM-416

Docket or Reference Number

070-00451

Amendment No. 06

Wellesley College
Wellesley, Massachusetts 02181-8201

In accordance with the letter dated October 10, 1996, License Number SNM-416 is hereby terminated.

Date DEC 10 1996

For the U.S. Nuclear Regulatory Commission

Original Signed By:

By John D. Kinneman

Nuclear Materials Safety Branch
Region I

King of Prussia, Pennsylvania 194066

9701100105 961210
PDR ADOCK 07000451
C PDR

ML 10

DEC 10 1996

T. Kaye Peterman, Ph.D., Chair
Radiation Safety Committee
Wellesley College
106 Central Street
Wellesley, MA 02181-8289

Dear Dr. Peterman:

Please find enclosed Amendment No. 06 terminating License No. SNM-416 as requested by your letter dated October 10, 1996, and supported by documentation submitted with the letter dated November 18, 1996.

Your cooperation with us is appreciated.

Sincerely,

Original Signed By:
John D. Kinneman

John D. Kinneman
Division of Nuclear Materials Safety

License No. SNM-416
Docket No. 070-00451
Control No. 123793

Enclosure:
Amendment No. 06

DOCUMENT NAME: R:\WPS\MLTR\LSNM-416

To receive a copy of this document, indicate in the box: "C" = Copy w/o attach/encl "E" = Copy w/ attach/encl "N" = No copy

| | | | | | | | |
|--------|--------------|---|-----------|---|---------|--|---------|
| OFFICE | DNMS/RI | N | DNMS/RI | N | | | |
| NAME | JBondick/jmb | | JKinneman | | | | |
| DATE | 12/06/96 | | 12/6/96 | | 12/ /96 | | 12/ /96 |

OFFICIAL RECORD COPY



Wellesley College

106 Central Street
Wellesley, Massachusetts 02181-8289
(617) 283-3000 FAX (617) 283-3642

ms-116
Q6

November 18, 1996

License Number SNM-416
Docket Number 070-00451
Control Number 123793

John D. Kinneman, Chief
US Nuclear Regulatory Commission, Region I
475 Allendale Road
King of Prussia PA 19406-1415

Dear Mr. Kinneman:

This is in response to your letter of October 30, which requests additional information to our request to terminate license number SNM-416. Following are our responses to your specific questions:

- (1) The source was packaged and shipped by F.X. Masse Associates to Los Alamos. Enclosed is a copy of the executed DOE/NRC Form 741 Nuclear Material Transfer Report, documenting the completed transfer.
- (2) Enclosed is a completed NRC Form 314 documenting completion of all work under this license.
- (3) The area in which the SNM source was used is also routinely used for byproduct material work under our byproduct materials license. Although a thorough survey was performed by F.X. Masse Associates after removal of the SNM source, to assure no residual SNM contamination was present, we are not closing out that laboratory or releasing it for unrestricted use.

We trust this additional information will enable the termination of this license. Please do not hesitate to contact Frank Masse at 617-253-9217 if further information is required.

Yours truly,

A handwritten signature in cursive script, reading "T. Kaye Peterman".

T. Kaye Peterman, Chair
Radiation Safety Committee

cc: F.X. Masse
enclosures

123793
NOV 20 1996

***** UNCLASSIFIED *****

03/22/96
DOE/NRC FORM 741

U.S. DEPARTMENT OF ENERGY AND U.S. NUCLEAR REGULATORY COMMISSION
NUCLEAR MATERIAL TRANSACTION REPORT
TRANSFER SERIES: ZYB -AUA -000001

PAGE 1 OF 3 PAGES

| | | | | | | | |
|--|--------------------|---|------------|--|---------------------|--|---------------------------|
| 1. SHIP-RIS ZYB | 2. RCVR-RIS AUA | 3. TRANSFER-NO 000001 | 4. CORR-NO | 5. PROCESS-CODE SHIPPER : A RECEIVER: | 6. ACTION-CODE A | COPY 1 OF 1 COPIES | DISTRIBUTION OF COPIES |
| 9. A NAME/ADDR OF SHIPPER B. LIC-NO: | | 10. A NAME/ADDR OF RECEIVER B. LIC NO: | | 11. NO OF DATA LINES SHIP: 1 RCVR: | | 12. NATURE OF TRANS. S | |
| WELLESLEY COLLEGE PHYSICS SCIENCE CENTER WELLESLEY MA 02181 | | LOS ALAMOS NATIONAL LAB. GROUP FSS-12, MS-E508 P.O. BOX 1663 LOS ALAMOS NM 87545 | | WELLESLEY COLLEGE PHYSICS SCIENCE CENTER WELLESLEY MA 02181 | | | |
| HARRY CLARK FTS NO: 617 283 3133 | | BEN ROMERO, JR., NM REP FTS NO: 505 667 5886 | | | | | |
| 15. TRANSFER AUTHORITY: LAN#2099 | | | | 16. EXPORT/IMPORT TRANSFERS: A. LIC-NO: B. US PORT OF ENTRY: | | | |
| 17. MATERIAL TYPE AND DESCRIPTION: | | | | 18. TRANSPORT. PROFILE SEG CARR-ID XPER.PT | | 19. PACKAGE DATA MDL-ID NUM | |
| | | | | 1 | | 20. ACTION DATES A. SHIPMENT 4 -16-96 | |
| | | | | 2 | | B. S-MEAS - - | |
| | | | | 3 | | C. S-CORR - - | |
| | | | | 4 | | D. RECV - - | |
| | | | | 5 | | E. R-MEAS - - | |
| | | | | | | F. R-CORR - - | |
| 21. MISCELLANEOUS | | | | 22. GROSS WGHT: | | 23. VOLUME: | |
| | | | | 135 | | | |

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

***** UNCLASSIFIED *****

***** UNCLASSIFIED *****

03/22/96
NRC FORM 741

U.S. DEPARTMENT OF ENERGY AND U.S. NUCLEAR REGULATORY COMMISSION
NUCLEAR MATERIAL TRANSACTION REPORT
TRANSFER SERIES: ZYB -AUA -000001

PAGE 2 OF 3 PAGES

| SHIPPER'S DATA | | | A. SIGNATURE OF AUTHORIZED OFFICIAL AND DATE SIGNED: <i>T. Rye Peto 4/16/96</i> | | | | | | | | | | | | | |
|----------------|-----|----------------|---|---------|------|-----|---|---------|-----|-------|-----|---------|-------|--------|---------|-------|
| TYP | CHG | IDENTIFICATION | NO OF | PROJECT | COMP | P | O | COUNTRY | KEY | MEAS. | NET | ELEMENT | ELEM | WEIGHT | ISOTOPE | ISTPE |
| B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R |
| | | | 1 | | 50 | 781 | | J | US | US | US | | 16.00 | 0.2500 | | 15.00 |

| RECEIVER'S DATA | | | A. SIGNATURE OF AUTHORIZED OFFICIAL AND DATE SIGNED: <i>Ben Ramey 5-8-96</i> | | | | | | | | | | | | | |
|-----------------|-----|----------------|--|---------|------|---|---|---------|-----|-------|-----|---------|------|--------|---------|-------|
| TYP | CHG | IDENTIFICATION | NO OF | PROJECT | COMP | P | O | COUNTRY | KEY | MEAS. | NET | ELEMENT | ELEM | WEIGHT | ISOTOPE | ISTPE |
| B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R |
| | | | | | | | | | | | | | | | | |

ATTACHED IS LOS ALAMOS (AUA) AUTOMATED 741

REMARKS:
PART SEQ. NO. SHIPPER REMARKS
GC1 LAN#2099;ACCT#777/HMT-4;PROJ#J80;IDES#M124;COEI#781;
GC2 1 PUBE NEUTRON TEST SOURCE (PRIVATELY OWNED) DONATED TO
GC3 LOS ALAMOS (AUA) BY WELLESLEY COLLEGE (ZYB)
GC4 REF: RECEIVING PLAN/CAT-IV SEALED NEUTRON SOURCES 4/1/93

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

***** UNCLASSIFIED *****

03/23/98 10:03
0350 55566
LANL FSS-12
0003

***** UNCLASSIFIED *****

03/22/96
DOE/NRC FORM 741

U.S. DEPARTMENT OF ENERGY AND U.S. NUCLEAR REGULATORY COMMISSION
NUCLEAR MATERIAL TRANSACTION REPORT
TRANSFER SERIES: ZYB -AUA -000001

PAGE 3 OF 3 PAGES

SHIPPERS ITEM AND PARTS DETAIL INFORMATION

| SEQ LE | ASMBLYS | PROJECT | O PRCNT | COMP TY | NET | ELEMENT WEIGHT | ISOTOPE | ELEM | ISTPE | DECAY | C |
|--------|---------------------|------------|---------|---------|------------|----------------|---------|------|-------|---------|----|
| NO. VN | ITEM IDENTIFICATION | ITEMS SUBS | NUMBER | C ASSAY | CODE IC MT | WEIGHT PERCENT | WEIGHT | LOE | LOE | DATE SL | F |
| 001 32 | M936 | 00 00 | J | 781 | 52 | 16.00 6.2500 | 15.00 | | | | 01 |

***** UNCLASSIFIED *****

CERTIFICATE OF DISPOSITION OF MATERIALS

INSTRUCTIONS: ALL ITEMS MUST BE COMPLETED -- PRINT OR TYPE
SEND THE COMPLETED CERTIFICATE TO THE NRC OFFICE SPECIFIED ON THE REVERSE

ESTIMATED BURDEN PER RESPONSE TO COMPLY WITH THIS INFORMATION COLLECTION
REQUEST: 30 MINUTES. THIS MANDATORY SUBMITTAL IS USED BY NRC AS PART OF
THE BASIS FOR ITS DETERMINATION THAT THE FACILITY HAS BEEN CLEARED OF
RADIOACTIVE MATERIAL BEFORE THE FACILITY IS RELEASED FOR UNRESTRICTED USE.
FORWARD COMMENTS REGARDING BURDEN ESTIMATE TO THE INFORMATION AND
RECORDS MANAGEMENT BRANCH (MNBB 7714), U.S. NUCLEAR REGULATORY
COMMISSION, WASHINGTON, DC 20555-0001, AND TO THE PAPERWORK REDUCTION
PROJECT (3150-0028), OFFICE OF MANAGEMENT AND BUDGET, WASHINGTON, DC 20503.

LICENSEE NAME AND ADDRESS

Wellesley College
106 Central Street
Wellesley MA 02181-8289

LICENSE NUMBER

SNM-416

LICENSE EXPIRATION DATE

November 30, 1996

A. MATERIALS DATA (Check one and complete as necessary)

THE LICENSEE OR ANY INDIVIDUAL EXECUTING THIS CERTIFICATE ON BEHALF OF THE LICENSEE CERTIFIES THAT:
(Check and/or complete the appropriate item(s) below.)

- ☐ 1. NO MATERIALS HAVE EVER BEEN PROCURED OR POSSESSED BY THE LICENSEE UNDER THIS LICENSE.
- OR
- ☒ 2. ALL ACTIVITIES AUTHORIZED BY THE LICENSE HAVE CEASED AND ALL MATERIALS PROCURED AND/OR POSSESSED BY THE
LICENSE NUMBER CITED ABOVE HAVE BEEN DISPOSED OF IN THE FOLLOWING MANNER. (If additional space is needed, use the
reverse side or provide attachments.)

Describe specific material transfer actions and, if there were radioactive wastes generated in terminating this license, the disposal
actions including the disposition of low-level radioactive waste, mixed waste, Greater-than-Class-C waste, and sealed sources, if
applicable.

Only source possessed under this license has been transferred to
Los Alamos.

For transfers, specify the date of the transfer, the name of the license recipient, and the recipient's NRC license number or Agreement
State name and license number.

Documentation from Los Alamos National Laboratory on transfer is
attached.

If materials were disposed of directly by the licensee rather than transferred to another licensee, licensed disposal site or waste
contractor, describe the specific disposal procedures (e.g., decay in storage)

B. OTHER DATA

- ☒ 1. OUR LICENSE HAS NOT YET EXPIRED; PLEASE TERMINATE IT.
2. A RADIATION SURVEY WAS CONDUCTED BY THE LICENSEE TO CONFIRM THE ABSENCE OF LICENSED RADIOACTIVE MATERIALS
AND TO DETERMINE WHETHER ANY CONTAMINATION REMAINS ON THE PREMISES COVERED BY THE LICENSE. (Check one)
- ☒ NO (Attach explanation) Area is still used for continuing byproduct material
work.
- ☐ YES, THE RESULTS (Check one)
- ☐ ARE ATTACHED, or
- ☐ WERE FORWARDED TO NRC ON (Date)

3. THE PERSON TO BE CONTACTED
REGARDING THE INFORMATION
PROVIDED ON THIS FORM

NAME

F.X. Masse, consultant HP

TELEPHONE NUMBER
(Include Area Code)

617-253-9217

4. MAIL ALL FUTURE CORRESPONDENCE REGARDING THIS LICENSE TO

Kaye Peterman, PhD, Chair, Radiation Safety Committee

CERTIFYING OFFICIAL

I CERTIFY UNDER PENALTY OF PERJURY THAT THE FOREGOING IS TRUE AND CORRECT

PRINTED NAME AND TITLE

Kaye Peterman, PhD, Chair
Radiation Safety Committee

SIGNATURE

T. Kaye Peterman

DATE

11/18/96

WARNING: FALSE STATEMENTS IN THIS CERTIFICATE MAY BE SUBJECT TO CIVIL AND/OR CRIMINAL PENALTIES. NRC
REGULATIONS REQUIRE THAT SUBMISSIONS TO THE NRC BE COMPLETE AND ACCURATE IN ALL MATERIAL RESPECTS. 18 U.S.C.
SECTION 1001 MAKES IT A CRIMINAL OFFENSE TO MAKE A WILLFULLY FALSE STATEMENT OR REPRESENTATION TO ANY
DEPARTMENT OR AGENCY OF THE UNITED STATES AS TO ANY MATTER WITHIN ITS JURISDICTIONS.

123793

OCT 30 1996

License No. SNM-416
Docket No. 070-00451
Control No. 123793

Kaye Peterman, Ph.D., Chair
Radiation Safety Committee
Wellesley College
106 Central Street
Wellesley, MA 02181-8289

Dear Dr. Peterman:

This is in reference to your letter dated October 10, 1996 which requests the termination of License No. SNM-416. In order to continue our review, we need the following additional information:

1. Included with your letter is a copy of the DOE authorization to ship/relinquish ownership of the Mound Laboratory Model M936 PuBe source listed on your license. This form appears to authorize the shipment of the source, but does not provide information regarding the disposal of the material. Please provide additional information regarding who handled the disposal, the date when the source was disposed, and how it was done.
2. Enclosed is an NRC Form 314 which needs to be completed and returned to Region I. In addition, please provide copies of the shipping and receiving papers regarding the disposal. Include a letter from Los Alamos National Laboratory stating when the shipment of the source was received.
3. If the area where the Mound Laboratory Model M936 was stored is to be released for unrestricted use, in other words, no other licensed material will be used in that area, a closeout survey must be conducted, and the results submitted to Region I for review before the facility can be released for unrestricted use. Enclosed is a copy of the "Guidelines for Decommissioning Facilities and Equipment Prior to Release for Unrestricted Use or Termination of Licenses for Byproduct, Source or Special Nuclear Material," dated April 1993.

We will continue our review upon receipt of this information. Please reply in duplicate to my attention at the Region I Office and refer to Mail Control No. 123793. If you have any technical questions regarding this deficiency letter, please call James Bondick at (610) 337-6951.

OFFICIAL RECORD COPY

ML 10

K. Peterman, Ph.D
Wellesley College

-2-

If we do not receive a reply from you within 30 calendar days from the date of this letter, we shall assume that you do not wish to pursue your application.

Sincerely,

Original Signed By:
Pamela J. Henderson



John D. Kinneman, Chief
Nuclear Material Safety Branch 2
Division of Nuclear Materials Safety

Enclosures:

1. NRC Form 314
2. Guidelines for Decontamination of Facilities and Equipment Prior to Release for Unrestricted Use or Termination of Licenses for Byproduct, Source, or Special Nuclear Material

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K. Peterman, Ph.D
Wellesley College

-3-

DOCUMENT NAME: R:\WPS\DLTR\LSNM416

To receive a copy of this document, indicate in the box: "C" = Copy w/o attach/encl "E" = Copy w/ attach/encl "N" = No copy

| | | | | | | | |
|--------|--------------|----|-----------|-----|-----|-----|-----|
| OFFICE | DNMS/RI | N | DNMS/RI | | | | |
| NAME | JBondick/jmb | JB | JKinneman | | | | |
| DATE | 10/24/96 | | 10/30/96 | 10/ | /96 | 10/ | /96 |

OFFICIAL RECORD COPY



Wellesley College

106 Central Street
Wellesley, Massachusetts 02181-8289
(617) 283-3000 FAX (617) 283-3642

070-00451

October 10, 1996

License Number SNM-416

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

Gentlemen:

Wellesley College hereby requests termination of license SNM-416, effective immediately. The college recently took advantage of the ²³⁹PuBe Recovery Program conducted by Los Alamos National Laboratory and transferred the source covered by the above license to Los Alamos. Enclosed is an executed copy of the "Relinquishment of Ownership" form covering this source. This transfer therefore completes all activity under this license and we request the license be terminated.

Thank you for your attention to this matter. Please contact F.X. Masse at (617) 253-9217 if you have any questions.

Yours truly,

A handwritten signature in cursive script, appearing to read "Kaye Peterman".

Kaye Peterman, Chair
Radiation Safety Committee

cc: F.X. Masse

enc.

TKP:egs



(Side 1)

DOE AUTHORIZATION TO SHIP/RELINQUISHMENT OF OWNERSHIP

Sign Below and Return to the Following Address:

Los Alamos National Laboratory P. O. Box 1663
Los Alamos, New Mexico 87545
Sherry W. Jones
NMSM/ST MS E524

You are authorized by the Department of Energy (DOE) to ship the $^{239}\text{PuBe}$ source(s) on the reverse side of this form to the Los Alamos National Laboratory.

NOTE: Name and signature must be of an official of the facility that has the authority to relinquish ownership of the $^{239}\text{PuBe}$ source(s). This form must be signed and returned before Los Alamos will authorize the shipment of your source(s).

The Wellesley College hereby relinquishes all ownership of the $^{239}\text{PuBe}$ neutron source(s) indicated on the reverse side of this form to the United States Department of Energy (DOE) upon receipt/acceptance of the source(s) by the Los Alamos National Laboratory.

OFFICIAL NAME/TITLE: T. Kaye Peterman Chair, Radiation Safety Committee
NAME (Please Print/Type) TITLE (Please Print/Type)

SIGNATURE: T. Kaye Peter DATE: Feb. 2, 1996

LANL ACCEPTANCE SIGNATURE: Sherry W. Jones DATE: 5/13/96

$^{239}\text{PuBe}$ RECOVERY PROGRAM

FACILITY NAME: Wellesley College

DEPARTMENT: Physics RIS: ZYB

CONTACT NAME: Harry Clark TELEPHONE: (617) 283-3133

FAX: (617) 283-3642

ADDRESS: Science Center

Wellesley MA 02181

$^{239}\text{PuBe}$ SOURCE INFORMATION

SERIAL # M936 ELEMENT 16g ISOTOPE 15g CURIES 1Ci MT/% 52 6.25%

SERIAL # _____ ELEMENT _____ ISOTOPE _____ CURIES _____ MT/% _____

SERIAL # _____ ELEMENT _____ ISOTOPE _____ CURIES _____ MT/% _____

SERIAL # _____ ELEMENT _____ ISOTOPE _____ CURIES _____ MT/% _____

SERIAL # _____ ELEMENT _____ ISOTOPE _____ CURIES _____ MT/% _____

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SERIAL # _____ ELEMENT _____ ISOTOPE _____ CURIES _____ MT/% _____

SERIAL # _____ ELEMENT _____ ISOTOPE _____ CURIES _____ MT/% _____

SERIAL # _____ ELEMENT _____ ISOTOPE _____ CURIES _____ MT/% _____

LANL CONTAINER(S)

YES ☒ NO _____

AMOUNT 1

rev. 6/15/94

BETWEEN:

LICENSE FEE MANAGEMENT BRANCH, ARM
AND
REGIONAL LICENSING SECTIONS

(FOR LFMS USE)
INFORMATION FROM LTS

PROGRAM CODE: 03800
STATUS CODE: 0
FEE CATEGORY: EX 10
EXP. DATE: 20011130
FEE COMMENTS: 170.11(A)(4)
DECOM FIN ASSUR REQD: N

LICENSE FEE TRANSMITTAL

A. REGION

1. APPLICATION ATTACHED
Applicant/Licensee: WELLESLEY COLLEGE
RECEIVED DATE: 961017
DOCKET NO: 7000451
CONTROL NO.: 123793
LICENSE NO.: SNM-416
ACTION TYPE: TERMINATION

2. FEE ATTACHED

AMOUNT: -----
CHECK NO.: -----

3. COMMENTS

SIGNED
DATE

Rebecca J. Brown
10/31/96

B. LICENSE FEE MANAGEMENT BRANCH (CHECK WHEN MILESTONE 03 IS ENTERED 1/1)

1. FEE CATEGORY AND AMOUNT: EX 10

2. CORRECT FEE PAID. APPLICATION MAY BE PROCESSED FOR:

AMENDMENT -----
RENEWAL -----
LICENSE -----

3. OTHER -----

SIGNED
DATE

| | |
|-------------------|------------|
| RECEIVED BY LFDCB | |
| Date | 10/24/96 |
| By | Oct 7 1996 |
| By | SB |
| Date Completed | 10/25/96 |

1996 OCT 24 PM 3:28

FEE EXEMPT