

MATERIALS LICENSE

Amendment No. 07

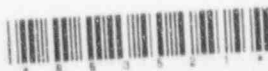
Pursuant to the Atomic Energy Act of 1954, as amended, the Energy Reorganization Act of 1974 (Public Law 93-438), and Title 10, Code of Federal Regulations, Chapter I, Parts 30, 31, 32, 33, 34, 35, 36, 39, 40, and 70, and in reliance on statements and representations heretofore made by the licensee, a license is hereby issued authorizing the licensee to receive, acquire, possess, and transfer byproduct, source, and special nuclear material designated below; to use such material for the purpose(s) and at the place(s) designated below; to deliver or transfer such material to persons authorized to receive it in accordance with the regulations of the applicable Part(s). This license shall be deemed to contain the conditions specified in Section 183 of the Atomic Energy Act of 1954, as amended, and is subject to all applicable rules, regulations, and orders of the Nuclear Regulatory Commission now or hereafter in effect and to any conditions specified below.

OFFICIAL RECORD COPY

Licensee		In accordance with the letter dated May 5, 1997, 3. License Number SNM-1889 is amended in its entirety to read as follows:	
1. The University of Connecticut Department of Environmental Health and Safety 2. 189 Auditorium Road, Box U-97 Storrs, Connecticut 06269-3097		4. Expiration Date October 31, 2002	
		5. Docket or Reference No. 070-02953	
6. Byproduct, Source, and/or Special Nuclear Material	7. Chemical and/or Physical Form	8. Maximum Amount that Licensee May Possess at Any One Time Under This License	
A. Plutonium 238	A. Sealed neutron source, Monsanto Research Corp. Model 2727B	A. 1.2 grams (20 curies)	
B. Plutonium 239	B. Sealed neutron sources	B. 80 grams (5 curies)	
9. Authorized use			
A. and B. Research and development as defined in 10 CFR 30.4; teaching and training of students.			

CONDITIONS

10. Licensed material may be used only at the licensee's facilities located at the Department of Physics, 2152 Hillside Road, University of Connecticut, Storrs, Connecticut or Department of Environmental Health and Safety, Hazardous Waste Facility, Horsebarn Hill Road, University of Connecticut, Storrs, Connecticut.
11. Licensed material shall be used by, or under the supervision of, individuals designated by the Radiation Safety Committee, Hedley C. Freake, Ph.D., Chairman.
12. The Radiation Safety Officer for this license is Edward L. Wilds, Jr.
13. Licensed material shall not be used in or on human beings or in field applications where activity is released except as provided otherwise by specific condition of this license.
14. A. Sealed sources and detector cells containing licensed material shall be tested for leakage and/or contamination at intervals not to exceed six months or at such other intervals as are specified by the certificate of registration referred to in 10 CFR 32.210, not to exceed three years.
B. Notwithstanding Paragraph A of this Condition, sealed sources designed to emit alpha particles shall be tested for leakage and/or contamination at intervals not to exceed three months.

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**MATERIALS LICENSE
SUPPLEMENTARY SHEET**

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- C. In the absence of a certificate from a transferor indicating that a leak test has been made within six months prior to the transfer, a sealed source or detector cell received from another person shall not be put into use until tested.
- D. Each sealed source fabricated by the licensee shall be inspected and tested for construction defects, leakage, and contamination prior to any use or transfer as a sealed source.
- E. Sealed sources and detector cells need not be leak tested if:
- (i) they contain only hydrogen-3; or
 - (ii) they contain only a radioactive gas; or
 - (iii) the half-life of the isotope is 30 days or less; or
 - (iv) they contain not more than 100 microcuries of beta and/or gamma emitting material or not more than 10 microcuries of alpha emitting material; or
 - (v) they are not designed to emit alpha particles, are in storage, and are not being used. However, when they are removed from storage for use or transfer to another person, and have not been tested within the required leak test interval, they shall be tested before use or transfer. No sealed source or detector cell shall be stored for a period of more than 10 years without being tested for leakage and/or contamination.
- F. The test shall be capable of detecting the presence of 0.005 microcurie of radioactive material on the test sample. If the test reveals the presence of 0.005 microcurie or more of removable contamination, a report shall be filed with the U.S. Nuclear Regulatory Commission and the source or detector cell shall be removed immediately from service and decontaminated, repaired, or disposed of in accordance with Commission regulations. The report shall be filed within five days of the date the leak test result is known with the U.S. Nuclear Regulatory Commission, Region I, ATTN: Director, Division of Nuclear Materials Safety, 475 Allendale Road, King of Prussia, Pennsylvania 19406. The report shall specify the source or detector cell involved, the test results, and corrective action taken.
- G. The licensee is authorized to collect leak test samples for analysis by the licensee. Alternatively, tests for leakage and/or contamination may be performed by persons specifically licensed by the Commission or an Agreement State to perform such services.
15. Sealed sources or detector cells containing licensed material shall not be opened or sources removed from source holders by the licensee.
16. The licensee shall conduct a physical inventory every six months to account for all sealed sources and devices containing licensed material received and possessed under the license.

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17. Except as specifically provided otherwise in this license, the licensee shall conduct its program in accordance with the statements, representations, and procedures contained in the documents, including any enclosures, listed below. The Nuclear Regulatory Commission's regulations shall govern unless the statements, representations, and procedures in the licensee's application and correspondence are more restrictive than the regulations.
- A. Application dated April 24, 1992
 - B. Application dated October 18, 1993
 - C. Application dated May 9, 1995
 - D. Letter dated May 5, 1997

MAY 29 1997

Date _____

For the U.S. Nuclear Regulatory Commission

ORIGINAL SIGNED BY:

JUDITH A. JOUSTRA

By

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

MAY 29 1997

Mr. Edward L. Wilds, Jr.
Radiation Safety Manager
The University of Connecticut
Department of Environmental Health
and Safety
189 Auditorium Road, Box U-97
Storrs, Connecticut 06269-3097

Dear Mr. Wilds:

This refers to your license amendment request. Enclosed with this letter is the amended license. Please note that as part of this amendment, in accordance with 10 CFR 30.36, effective February 15, 1996, the expiration date of your license has been extended by a period of five years. Your new expiration date is stated in Item 4 of the license.

Please review the enclosed document carefully and be sure that you understand and fully implement all the conditions incorporated into the amended license. If there are any errors or questions, please notify the U.S. Nuclear Regulatory Commission, Region I Office, Licensing Assistance Team, (610) 337-5093 or 5239, so that we can provide appropriate corrections and answers.

Thank you for your cooperation.

Sincerely,

**ORIGINAL SIGNED BY:
JUDITH A. JOUSTRA**

Judith A. Joustra
Division of Nuclear Materials Safety

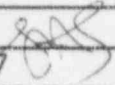
License No. SNM-1889
Docket No. 070-02953
Control No. 124568

Enclosure:
Amendment No. 07

OFFICIAL RECORD COPY ML 10

DOCUMENT NAME: R:\WPS\MLTR\LSNM-188

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	<input checked="" type="checkbox"/> N	DNMS/RI	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
NAME	JJoustra 						
DATE	05/20/97	05/ /97	05/ /97	05/ /97	05/ /97	05/ /97	05/ /97

OFFICIAL RECORD COPY

CONNECTICUT

ENVIRONMENTAL HEALTH AND SAFETY

May 5, 1997

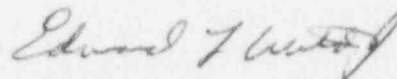
U. S. Nuclear Regulatory Commission, Region I
Nuclear Material Section B
475 Allendale Road
King of Prussia, PA 19406

070-02953

Subject: Material License SNM-1889
Docket No. 070-02953
License Amendment Application

Enclosed are six copies of an Application for Material License to amend License Number SNM-1889 and the supporting documentation. 10 CFR 70.25 does not require License Number SNM-1889 to have a decommission funding plan. If the NRC requires additional information, please contact me at the address below.

Sincerely,



Edward L. Wilds, Jr.
Radiation Safety Manager

Enclosure

124568

OFFICIAL RECORD COPY

ML 10

MAY 13 1997



(6-83)

10 CFR 30, 32, 33

34, 35, 36, 39 and 40

APPLICATION FOR MATERIAL LICENSE

ESTIMATED BURDEN PER RESPONSE TO COMPLY WITH THIS INFORMATION COLLECTION REQUEST: 8 HOURS. SUBMITTAL OF THE APPLICATION IS NECESSARY TO DETERMINE THAT THE APPLICANT IS QUALIFIED AND THAT ADEQUATE PROCEDURES EXIST TO PROTECT THE PUBLIC HEALTH AND SAFETY. 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 (3150-0120), OFFICE OF MANAGEMENT AND BUDGET, WASHINGTON, DC 20503.

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

APPLICATION FOR DISTRIBUTION OF EXEMPT PRODUCTS FILE APPLICATIONS WITH:

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

ALL OTHER PERSONS FILE APPLICATIONS AS FOLLOWS:

IF YOU ARE LOCATED IN:

CONNECTICUT, DELAWARE, DISTRICT OF COLUMBIA, MAINE, MARYLAND,
MASSACHUSETTS, NEW HAMPSHIRE, NEW JERSEY, NEW YORK, PENNSYLVANIA,
RHODE ISLAND, OR VERMONT, SEND APPLICATIONS TO:

LICENSING ASSISTANT SECTION
NUCLEAR MATERIALS SAFETY BRANCH
U.S. NUCLEAR REGULATORY COMMISSION, REGION I
475 ALLENDALE ROAD
KING OF PRUSSIA, PA 19406-1415

ALABAMA, FLORIDA, GEORGIA, KENTUCKY, MISSISSIPPI, NORTH CAROLINA, PUERTO
RICO, SOUTH CAROLINA, TENNESSEE, VIRGINIA, VIRGIN ISLANDS, OR WEST VIRGINIA,
SEND APPLICATIONS TO:

NUCLEAR MATERIALS LICENSING SECTION
U.S. NUCLEAR REGULATORY COMMISSION, REGION II
101 MARIETTA STREET, NW, SUITE 2900
ATLANTA, GA 30323-0199

IF YOU ARE LOCATED IN:

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

MATERIALS LICENSING SECTION
U.S. NUCLEAR REGULATORY COMMISSION, REGION III
799 ROOSEVELT ROAD
GLEN ELLYN, IL 60137-5927

ARKANSAS, COLORADO, IDAHO, KANSAS, LOUISIANA, MONTANA, NEBRASKA, NEW
MEXICO, NORTH DAKOTA, OKLAHOMA, SOUTH DAKOTA, TEXAS, UTAH, OR WYOMING,
SEND APPLICATIONS TO:

NUCLEAR MATERIALS LICENSING SECTION
U.S. NUCLEAR REGULATORY COMMISSION, REGION IV
611 RYAN PLAZA DRIVE, SUITE 400
ARLINGTON, TX 76011-8064

ALASKA, ARIZONA, CALIFORNIA, HAWAII, NEVADA, OREGON, WASHINGTON, AND U.S.
TERRITORIES AND POSSESSIONS IN THE PACIFIC, SEND APPLICATIONS TO:

RADIOACTIVE MATERIALS SAFETY BRANCH
U.S. NUCLEAR REGULATORY COMMISSION, REGION V
1450 MARIA LANE
WALNUT CREEK, CA 94596-5368

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

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

- ☐ A. NEW LICENSE
☒ B. AMENDMENT TO LICENSE NUMBER SNM 1889
☐ C. RENEWAL OF LICENSE NUMBER _____

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

The University of Connecticut
Dept. of Environmental Health & Safety
189 Auditorium Road, U-97
Storrs, CT 06269-3097

3. ADDRESS(ES) WHERE LICENSED MATERIAL WILL BE USED OR POSSESSED

As listed on present license.

4. NAME OF PERSON TO BE CONTACTED ABOUT THIS APPLICATION

Edward L. Wilds, Jr.

TELEPHONE NUMBER
(860) 486-3613

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

- | | |
|---|--|
| 5. RADIOACTIVE MATERIAL
a. Element and mass number; b. chemical and/or physical form; and c. maximum amount which will be possessed at any one time. | 6. PURPOSE(S) FOR WHICH LICENSED MATERIAL WILL BE USED. |
| 7. INDIVIDUAL(S) RESPONSIBLE FOR RADIATION SAFETY PROGRAM AND THEIR TRAINING EXPERIENCE. | 6. TRAINING FOR INDIVIDUALS WORKING IN OR FREQUENTING RESTRICTED AREAS. |
| 9. FACILITIES AND EQUIPMENT. | 10. RADIATION SAFETY PROGRAM. |
| 11. WASTE MANAGEMENT. | 12. LICENSEE FEES (See 10 CFR 170 and Section 170.31)
FEE CATEGORY <u>10CFR170.11(a)(4)</u> AMOUNT
ENCLOSED \$ <u>exempt</u> |

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

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

WARNING: 18 U.S.C. SECTION 1001 ACT OF JUNE 25, 1948 82 STAT. 749 MAKES IT A CRIMINAL OFFENSE TO MAKE A WILLFULLY FALSE STATEMENT OR REPRESENTATION TO ANY DEPARTMENT OR AGENCY OF THE UNITED STATES AS TO ANY MATTER WITHIN ITS JURISDICTION.

CERTIFYING OFFICER - TYPED/PRINTED NAME AND TITLE

William Barrett, Dir. Admin. & Logistical Services

SIGNATURE

DATE

5-5-97

FOR NRC USE ONLY

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

**ITEM 7 - INDIVIDUALS RESPONSIBLE FOR
RADIATION SAFETY PROGRAM AND THEIR
TRAINING EXPERIENCE**

The University requests the following changes to the Radiation Safety Committee Chair.

From: Dr. Linda D. Strausbaugh Molecular and Cell Biology

To: Dr. Hedley C. Freake Nutritional Science

Dr. Freake's training and experience is presently on file with the University's Material License 06-01450-47.

BETWEEN:

License Fee Management Branch, ARM
and
Regional Licensing Sections

FOR LFMS USE)
INFORMATION FROM LTS

Program Code: 22150
Status Code: 0
Fee Category: EX 1D
Exp. Date: 20021031
Fee Comments: 170.11(A)(4)STORAGE 1
Decom Fin Assur Req'd: N
.....

LICENSE FEE TRANSMITTAL

A. REGION I

1. APPLICATION ATTACHED

Applicant/Licensee: CONNECTICUT, UNIVERSITY OF
Received Date: 970513
Docket No: 7002953
Control No.: 124568
License No.: SNM-1889
Action Type: Amendment

2. FEE ATTACHED

Amount: -----
Check No.: -----

3. COMMENTS

Signed M.A. Perkins
Date 5/13/97

B. LICENSE FEE MANAGEMENT BRANCH (Check when milestone 03 is entered /___/)

1. Fee Category and Amount: EX 1D 170.11(A)(4)

2. Correct Fee Paid. Application may be processed for:

Amendment -----
Renewal -----
License -----

3. OTHER -----

Signed -----
Date -----

RECEIVED BY LFDCB	
Date	5/28/97
	May 9 1997
	BB
Date Completed	5/28/97

(Also see
124568)

1997 MAY 15 PM 1:50