

030-22065

L+L=20779

NRC FORM 313
(1-84)
10 CFR 30.32, 33, 34,
35 and 40

U.S. NUCLEAR REGULATORY COMMISSION
APPROVED BY OMB
3150-0120
Expires: 5-31-87

APPLICATION FOR MATERIAL LICENSE

01200

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.

FEDERAL AGENCIES FILE APPLICATIONS WITH:

U.S. NUCLEAR REGULATORY COMMISSION
DIVISION OF FUEL CYCLE AND MATERIAL SAFETY, NMSS
WASHINGTON, DC 20555

ALL OTHER PERSONS FILE APPLICATIONS AS FOLLOWS, IF YOU ARE LOCATED IN:

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

U.S. NUCLEAR REGULATORY COMMISSION, REGION I
NUCLEAR MATERIAL SECTION B
631 PARK AVENUE
KING OF PRUSSIA, PA 19406

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

U.S. NUCLEAR REGULATORY COMMISSION, REGION II
MATERIAL RADIATION PROTECTION SECTION
101 MARIETTA STREET, SUITE 2900
ATLANTA, GA 30323

IF YOU ARE LOCATED IN:

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

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

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

U.S. NUCLEAR REGULATORY COMMISSION, REGION IV
MATERIAL RADIATION PROTECTION SECTION
611 RYAN PLAZA DRIVE, SUITE 1000
ARLINGTON, TX 76011

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

U.S. NUCLEAR REGULATORY COMMISSION, REGION V
MATERIAL RADIATION PROTECTION SECTION
1450 MARIA LANE, SUITE 210
WALNUT CREEK, CA 94596

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 JURISDICTION.

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

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

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

University of Medicine & Dentistry
of New Jersey, School of Osteopathic
Medicine, CAMDEN Branch

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

7TH & Haddon Avenue
CAMDEN, NJ 08103

UMDNJ-SOM
401 Haddon Avenue
Camden, N.J. 08103

4. NAME OF PERSON TO BE CONTACTED ABOUT THIS APPLICATION

L.J. Foreman, Ph.D.

TELEPHONE NUMBER

(609)757-7778

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 AND EXPERIENCE.

8. 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 Exempt AMOUNT ENCLOSED \$

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, AND 40 AND THAT ALL INFORMATION CONTAINED HEREIN, IS TRUE AND CORRECT TO THE BEST OF THEIR KNOWLEDGE AND BELIEF.

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

SIGNATURE—CERTIFYING OFFICER

TYPED/PRINTED NAME

TITLE

DATE

L.J. Foreman Lloyd J. Foreman, Ph.D. Assit. Prof. of Med.

14. ANNUAL RECEIPTS

<\$250K	\$1M-3.5M
\$250K-500K	\$3.5M-7M
\$500K-750K	\$7M-10M
\$750K-1M	>\$10M

b. NUMBER OF EMPLOYEES (Total for entire facility excluding outside contractors)

c. NUMBER OF BEDS

d. WOULD YOU BE WILLING TO FURNISH COST INFORMATION (Dollar and/or staff hours) ON THE ECONOMIC IMPACT OF CURRENT NRC REGULATIONS OR ANY FUTURE PROPOSED NRC REGULATIONS THAT MAY AFFECT YOU? (NRC regulations permit it to protect confidential commercial or financial—proprietary—information furnished to the agency in confidence)

☐ YES

☐ NO

FOR NRC USE ONLY

TYPE OF FEE

FEE LOG

FEE CATEGORY

COMMENTS

APPROVED BY

Application Nov 11

EX 3M

AMOUNT RECEIVED

CHECK NUMBER

OFFICIAL RECORD COPY
FEE EXEMPT ML10 03135

DATE

Frances Brown
11/19/84

B512180350 850215
REG1 LIC30 PDR

State 170.1160(9)

NOV 14 1984

PRIVACY ACT STATEMENT

Pursuant to 5 U.S.C. 552a(e)(3), enacted into law by section 3 of the Privacy Act of 1974 (Public Law 93-579), the following statement is furnished to individuals who supply information to the Nuclear Regulatory Commission on NRC Form 313. This information is maintained in a system of records designated as NRC-3 and described at 40 Federal Register 45334 (October 1, 1975).

1. **AUTHORITY:** Sections 81 and 161(b) of the Atomic Energy Act of 1954, as amended (42 U.S.C. 2111 and 2201(b)).
2. **PRINCIPAL PURPOSE(S):** The information is evaluated by the NRC staff pursuant to the criteria set forth in 10 CFR Parts 30, 32, 33, 34, 35 and 40 to determine whether the application meets the requirements of the Atomic Energy Act of 1954, as amended, and the Commission's regulations, for the issuance of a radioactive material license or amendment thereof.
3. **ROUTINE USES:** The information may be (a) provided to State health departments for their information and use; and (b) provided to Federal, State, and local health officials and other persons in the event of incident or exposure, for their information, investigation, and protection of the public health and safety. The information may also be disclosed to appropriate Federal, State, and local agencies in the event that the information indicates a violation or potential violation of law and in the course of an administrative or judicial proceeding. In addition, this information may be transferred to an appropriate Federal, State, or local agency to the extent relevant and necessary for an NRC decision or to an appropriate Federal agency to the extent relevant and necessary for that agency's decision about you.
4. **WHETHER DISCLOSURE IS MANDATORY OR VOLUNTARY AND EFFECT ON INDIVIDUAL OF NOT PROVIDING INFORMATION:** Disclosure of the requested information is voluntary. If the requested information is not furnished, however, the application for radioactive material license, or amendment thereof, will not be processed. A request that information be held from public inspection must be in accordance with the provisions of 10 CFR 2.790. Withholding from public inspection shall not affect the right, if any, of persons properly and directly concerned need to inspect the document.
5. **SYSTEM MANAGER(S) AND ADDRESS:** U.S. Nuclear Regulatory Commission
Director, Division of Fuel Cycle and Material Safety
Office of Nuclear Material Safety and Safeguards
Washington, D.C. 20555

NRC FORM 313 ITEM 5

POSSESSION LIMITS

I-125	160 mCi
3-H	150 mCi
^{35}S	50 mCi
^{14}C	40 mCi
^{32}P	10 mCi
^{64}Cu	20 mCi
^{131}I	20 mCi

SEE APPENDIX I FOR ADDITIONAL INFORMATION

NRC FORM 313 ITEM 6

SEE APPENDIX I

NRC FORM 313 ITEM 7

SEE APPENDIX I

IN ADDITION, THE RADIOLOGIC PHYSICS SECTION OF THE DEPT. OF RADIATION
ONCOLOGY OF THE COOPER HOSPITAL/UNIVERSITY MEDICAL CENTER WILL BE
AVAILABLE AS CONSULTANTS. SEE NRC LICENSE #29-08285-01.

NRC FORM 313 ITEM 8

SEE APPENDIX I

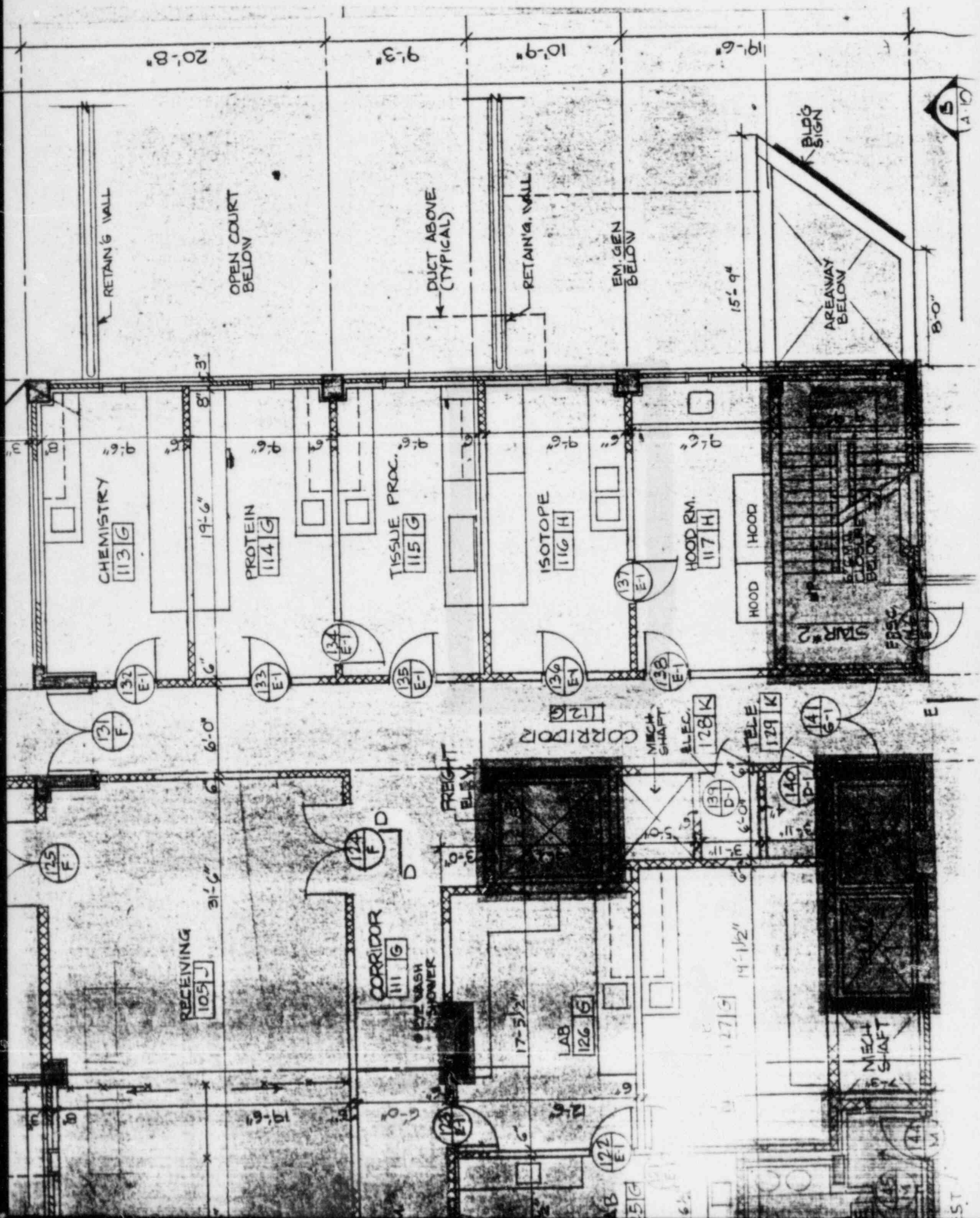
NRC FORM 313 ITEMS 9 & 10

LKB LIQUID SCINTILLATION COUNTER MODEL #1217; SERIAL #861690

LUDLUM MODEL 3 SURVEY METER WITH 44-3 LOW ENERGY GAMMA SCINTILLATION
PROBE. 44-1 BETA SCINTILLATION PROBE.

LKB GAMMA COUNTER MODEL #1282; serial #820086

SEE ATTACHED FLOOR PLAN. ROOM 116 HAS HOOD WITH 50 AIR CHANGES PER
HOUR.

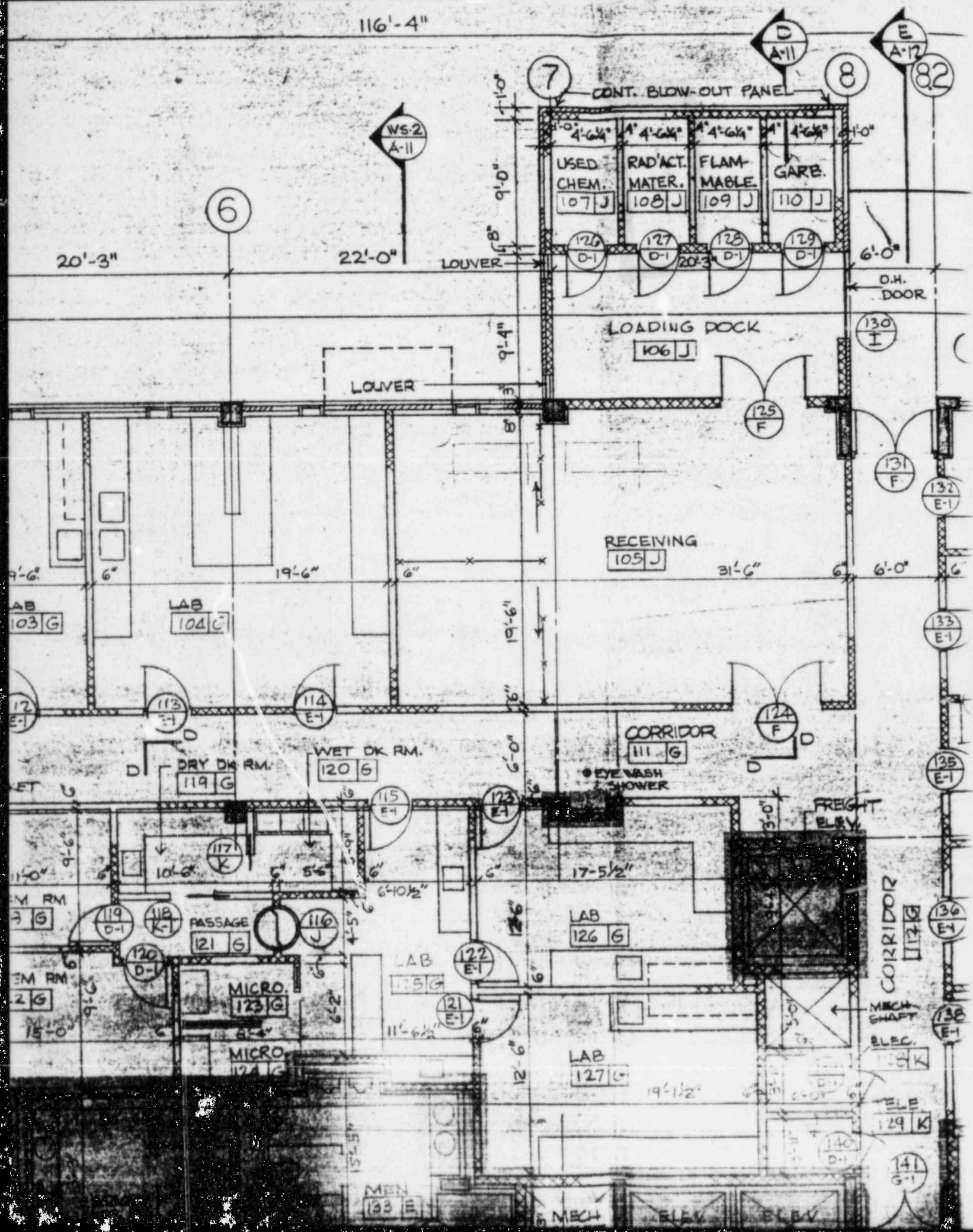


NRC FORM 313 ITEM 11

A SEPARATE LOCKED ROOM HAS BEEN SET ASIDE FOR RADIOACTIVE WASTE DISPOSAL.

A COMPACTOR IS AVAILABLE FOR RADIOACTIVE WASTE.

THE FINAL REMOVAL OF WASTE WILL BE DONE BY AN INDEPENDENT CONTRACTOR.



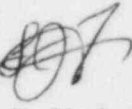
APPENDIX I

UNIVERSITY OF MEDICINE AND DENTISTRY OF NEW JERSEY

NEW JERSEY SCHOOL OF OSTEOPATHIC MEDICINE

DEPARTMENT OF MEDICINE MEMORANDUM

TO:

FROM: L. J. Forman, Ph.D. 

SUBJECT: Requirements for Radioisotopes and User Qualifications

I will be using 60 mCi of ^{125}I per year.

My qualifications are as follows:

1. A course in Radiation Biology as part of the requirements for my Ph.D., at the University of Kentucky.
2. Have used ^3H -thymidine in experiments to study cell replication.
3. Was in charge of the radioimmunoassay for beta-endorphin in the laboratory of Dr. J. Meites at Michigan State University. This included bimonthly iodinations of the peptide. Over a two year period of thyroid monitoring, I never registered above background.
4. Currently hold a General License from the NRC (license number 6507).

UNIVERSITY OF MEDICINE AND DENTISTRY OF NEW JERSEY

SCHOOL OF OSTEOPATHIC MEDICINE

MEMORANDUM

DATE: August 15, 1984

TO: Lloyd Forman, Ph.D.
Assistant Professor of Medicine

FROM: Bob Nagele, Ph.D. *Bob Nagele/zom*
Assistant Professor of Pediatrics

SUBJECT: Radioisotope License

At the present time, I would expect to use no more than 2 mCi of ^3H -leucine and 5 mCi of ^{125}I per year. I have been using these substances for several years and I am thoroughly acquainted with the various procedures and cautions of handling.

If you need any further information, please don't hesitate to ask.

BN/zom

CAMDEN OFFICE

UNIVERSITY OF MEDICINE AND DENTISTRY OF NEW JERSEY

SCHOOL OF OSTEOPATHIC MEDICINE

401 Haddon Avenue
Camden, NJ 08103
(609) 757-7735

DEPARTMENT OF
OBSTETRICS - GYNECOLOGY

Date: August 8, 1984
To: Lloyd Forman, Ph.D.
Radiation Safety
UMDNJ-SOM
From: Philip J. Chan, Ph.D. *P.C.*
Ob/Gyn Research Coordinator
Subject: License for radioisotope usage

I anticipate using the following radioisotopes per year:

5 mCi ^3H - estradiol
5 mCi ^3H - progesterone
5 uCi ^{125}I - calmodulin

My qualifications are:

1. A course in Medical Physics (Physics 52; Kalamazoo College) on nuclear radiation in Biological applications.
2. A course in RadioBiology (Physiology 837; Michigan State University) on radioisotopes and the effects of radiation on biological tissues.
3. I have used ^3H -estradiol, ^3H -progesterone and ^{125}I -calmodulin in my assays on preimplantation squirrel monkey embryos in my laboratory at Michigan State University.

Thank you.

UNIVERSITY OF MEDICINE AND DENTISTRY OF NEW JERSEY

NEW JERSEY SCHOOL OF OSTEOPATHIC MEDICINE

DEPARTMENT OF MEDICINE MEMORANDUM

TO: Lloyd Forman, Ph.D., Chairman, Radiation Safety Committee

FROM: Peter Vasilenko, Ph.D., Assistant Professor *PV:IL*

SUBJECT: Use of radioisotopes

August 8, 1984

I would like to be included on the isotope license you are preparing so that I may use and purchase radioisotopes. My educational background includes a graduate level course in Radiation Biology which covered all aspects of the use and effects of radioisotopes. I have been using isotopes in my research for the past 8 years and I am proficient in the safe handling and proper utilization of isotopes in in vivo and in vitro biological systems.

My approximate use of isotopes per year will be the following:

5 mCi ^3H

5 mCi ^{14}C

20 mCi ^{35}S

Please let me know if you require any additional information. Thank you.

UNIVERSITY OF MEDICINE AND DENTISTRY OF NEW JERSEY

DEPARTMENT OF PSYCHIATRY

MEMORANDUM

TO: Lloyd J. Forman, Ph.D.
Assistant Professor of Medicine

FROM: Mark H. Lewis, Ph.D. *MHL*
Assistant Professor of Psychiatry

DATE: 8-7-84

SUBJECT: Radioisotope License

I anticipate using approximately 1-2 mCi per year of ^3H -spiperone, ^3H -dopamine, and ^3H -naloxone. While a post-doctoral fellow at the University of North Carolina from 1980 to 1983, I had extensive experience working with these radiolabelled compounds and was instructed in the appropriate procedures for handling radiolabelled material.

If you need additional information, please let me know. Thanks for assuming the responsibility for securing our radioisotope license.

MHL/fy

UNIVERSITY OF MEDICINE AND DENTISTRY OF NEW JERSEY

NEW JERSEY SCHOOL OF OSTEOPATHIC MEDICINE
DEPARTMENT OF FAMILY PRACTICE

MEMORANDUM

DATE: July 31, 1984

TO: Lloyd Forman, Ph.D.

FROM: Eugene Mochan, Ph.D., D.O. *EM*

SUBJECT: Radiation License

I have been actively involved in research in the field of biochemistry at UMDNJ-SOM for the past three (3) years. My projects involving radioactive materials are as follows:

1. Na^{35}S - sulfate labelling of cartilage
2. ^3H thymidine incorporation for growth rates and,
3. ^{14}C proline collagenase assays.

These three projects are presently in progress and will continue for some time.

Experience with Radioisotopes

1962-1968	Graduate Courses - SUNY/Buffalo, Department of Biochemistry Approved under license to SUNY/Buffalo, Department of Biochemistry
1968-1972	Approved under license to Department of Biochemistry, University of Pennsylvania Medical School
1972-1981	Approved under license to Philadelphia College of Osteopathic Medicine

RECEIVED
APR -1 10:14
U.S. N.R.C.
FEB 1985
PHILADELPHIA BRANCH

UNIVERSITY OF MEDICINE AND DENTISTRY OF NEW JERSEY

RUTGERS MEDICAL SCHOOL AT CAMDEN

Medical Arts Building

300 Broadway, Camden, N.J. 08103

609-757-2800

DATE: August 3, 1983

TO: Lloyd Forman, Ph.D.
Radiation Safety
UMDNJ-School of Osteopathic Medicine

FROM: Gordon D. Benson, M.D. *GDB*
Professor of Medicine
Assistant Dean for Research
UMDNJ-RMS at Camden

SUBJECT: License for use of radioisotopes

I would like to be included on the institutional license for use of radioisotopes for metabolic traced studies and radioassays. I will be located in the laboratory #206 with access to the hoods in room #204. Previously, I was authorized to use radioisotopes at the following institutions:

Rutgers Medical School (1963-1970)
(#1073 under institutional license granted to
Rutgers-The State University, #29-5218-28)

Thomas Jefferson University (1970-1978)
(71-2 under institutional license granted to TJU,
#37-00148-06)

My previous experience has been:

Yale University School of Medicine 7/62-12/63 QJT
Rutgers Medical School 12/63-6/70 QJT and regular use
Oak Ridge Institute of Nuclear Studies 8/67-9/67 Research
Course
Thomas Jefferson University 7/70-9/78 Regular use

In the past, I have been authorized to use the following isotopes and would like to continue this authorization:

<u>Isotopes</u>	<u>Amount</u>
^{14}C	10 mCi
^3H	50 mCi
^{32}P	5 mCi
^{64}Cu	10 mCi
^{125}I	10 mCi
^{131}I	10 mCi

BETWEEN: William O. Miller, Chief
License Fee Management Branch
Office of Administration

John E. Glenn, Chief
Nuclear Materials Section B
Division of Engineering and
Technical Programs

*Free
Exempt?*

LICENSE FEE TRANSMITTAL

A. REGION I

1. APPLICATION ATTACHED University of Medicine +
Applicant/Licensee: Dentistry of New Jersey
Application Dated: 11/12/84
Control No.: 03135
License No.: New
2. FEE ATTACHED
Amount: 0
Check No.: 0
3. COMMENTS

Signed Brenda Platchek

Date 11/15/84

B. LICENSE FEE MANAGEMENT BRANCH

1. Fee Category and Amount: EX 3M no fee due
2. Correct Fee Paid. Application may be processed for: State
Amendment _____
Renewal _____
License /

Signed Frances Brown

Date 11/19/84

11/20/84

MATERIALS DATA INPUT—INDUSTRIAL, MEDICAL, SOURCE/SPECIAL NUCLEAR

A. TYPE OF ACTION AND IDENTIFICATION CODES

<input type="checkbox"/>	NEW LICENSE	<input type="checkbox"/>	AMENDMENT TO RENEW LICENSE	<input type="checkbox"/>	AMENDMENT TO TERMINATE	<input checked="" type="checkbox"/>	VOID	DOCKET NUMBER	MAIL CONTROL NUMBER	CHANGE NAME/ADDRESS ("X" box)
1	NEW LICENSE AND NEW LICENSEE	<input type="checkbox"/>	OTHER AMENDMENT	<input type="checkbox"/>	CLERICAL CHANGE NO AMENDMENT	2	7	030-22065	03135	<input type="checkbox"/>

B. INDICATIVE INFORMATION

INDIVIDUAL LICENSEES	NAME (Last, First, Middle)	NAME (Last, First, Middle)				
	NAME (Last, First, Middle)	NAME (Last, First, Middle)				
	NAME (Last, First, Middle)	NAME (Last, First, Middle)				
ORGANIZATION LICENSEES	ORGANIZATION NAME (Alphabetic Sequence)					
3	New Jersey, Univ. of Medicine & Dentistry					
4	DEPARTMENT OR BUREAU					
	School of Osteopathic Medicine					
5	BUILDING, STREET	CITY				
	7th & Haddon Ave.	Camden				
	STATE	ZIP CODE				
	NJ	08103				
6	TYPE OF APPLICANT	U.S. GOVERNMENT AGENCY	DATE REQUEST RECEIVED	INSTITUTION CODE	PENDING PROG. CODE	ACTUAL PROG. CODE
	333	INDIVIDUAL LICENSEE	11/14/84	20779	03620	01200
	ORGANIZATIONAL LICENSEE					
	SECONDARY PROGRAM CODES (As required)					
	#1 #2 #3 #4 #5					
LICENSE NUMBER		DATE LICENSE ISSUED OR ACTION COMPLETED		EXPIRATION DATE		
		MAR 27 1985				

C. STATISTICAL INFORMATION

MEDICAL CATEGORY:	FOR HUMAN USE ONLY	FOR HUMAN AND NONHUMAN USE	FOR NONHUMAN USE ONLY			
POSSESSION OF THE MATERIAL IS AUTHORIZED IN ONE OF THE FOLLOWING AREAS						
AND/OR IN THE STATE(S), TERRITORY(IES), COUNTRY CHECKED (At right)	SAME AS "STATE" IN ADDRESS		ALL STATES		ALL NON-AGREEMENT STATES	
	AL ALABAMA	GA GEORGIA	MD MARYLAND	NJ NEW JERSEY	SC SOUTH CAROLINA	WY WYOMING
	AK ALASKA	HI HAWAII	MA MASSACHUSETTS	NM NEW MEXICO	SD SOUTH DAKOTA	
	AZ ARIZONA	ID IDAHO	MI MICHIGAN	NY NEW YORK	TN TENNESSEE	AS AMERICAN SOMOA
	AR ARKANSAS	IL ILLINOIS	MN MINNESOTA	NC NORTH CAROLINA	TX TEXAS	CZ CANAL ZONE
	CA CALIFORNIA	IN INDIANA	MS MISSISSIPPI	ND NORTH DAKOTA	UT UTAH	GU GUAM
	CO COLORADO	IA IOWA	MO MISSOURI	OH OHIO	VT VERMONT	PR PUERTO RICO
	CT CONNECTICUT	KS KANSAS	MT MONTANA	OK OKLAHOMA	VA VIRGINIA	VI VIRGIN ISLANDS
	DE DELAWARE	KY KENTUCKY	NE NEBRASKA	OR OREGON	WA WASHINGTON	
	DC WASHINGTON, DC	LA LOUISIANA	NV NEVADA	PA PENNSYLVANIA	WV WEST VIRGINIA	CN CANADA
	FL FLORIDA	ME MAINE	NH NEW HAMPSHIRE	RI RHODE ISLAND	WI WISCONSIN	

D. POSSESSION LIMITS OF SOURCE AND SPECIAL NUCLEAR MATERIALS AND TRITIUM

SOURCE MATERIAL CEILING	G - GRAMS	SNM CEILING	G - GRAMS	IF FOR POWER REACTOR					
	Kg - KILOGRAMS		Kg - KILOGRAMS	("X" here)					
*MATERIAL	AMOUNT	UNIT	CONFIG	ENRICH	*MATERIAL	AMOUNT	UNIT	CONFIG	ENRICH
U5 - U235		G	S				G	S	
		Kg	UNS				Kg	UNS	
		G	S				G	S	
U3 - U233		Xg	UNS				Kg	UNS	
		G	S				G	S	
PU-Plutonium		Kg	UNS				Kg	UNS	
		G	S				G	S	
UR-Uranium		Kg	UNS				Kg	UNS	
		G	S				G	S	
TH-Thorium		Kg	UNS				Kg	UNS	
		G	S				G	S	
		Kg	UNS				Kg	UNS	
		G	S				G	S	
		Kg	UNS				Kg	UNS	
H3 Tritium		CURIES			RIS CODES				
		MILLCURIES							
		MICROCURIRES							

*Use two-digit codes.

S SEALED,

UNS UNSEALED.