

VOID SHEET

29-08285-03
03031977

TO: License Fee Management Branch
FROM: Region I
SUBJECT: VOIDED APPLICATION

I 94 ✓
Jan 13
36
122787

Control Number: 122787
Applicant: Cooper Hospital/University Medical Center
Date Voided: 4/10/96
Reason for Void: One-Time Extension of expiration date of certain
byproduct, source and special nuclear material licenses
by five years has been granted for License No.
29-08285-03 (030-31977). Before review.

M. A. Perkins 4/10/96
Signature Date

Attachment:
Official Record Copy of
Voided Action

FOR LFMS USE ONLY

Final Review of VOID Completed:

Refund Authorized and processed (36 Fee renewal - 8820)

No Refund Due

Fee Exempt or Fee Not Required

Comments: License extended
by Rulemaking

Log completed

Processed by: BA

270016

OFFICIAL RECORD COPY

ML 10

JAN 29 1996

Leslie D. Hirsch
Executive Vice President
Cooper Hospital/University Medical Center
1 Cooper Plaza
Camden, NJ 08103

SUBJECT: LICENSE RENEWAL APPLICATION


Dear Ms. Hirsch:

This is to acknowledge receipt of your application for renewal of materials(s) license identified below. Your application is deemed timely filed, and accordingly, the license will not expire until final action has been taken by this office.

Any correspondence regarding the renewal application should reference the control number specified below.

Sincerely,

Original Signed By:
Cheryl K. Buracker

 Sheryl Villar
Licensing Administrative Specialist
Division of Nuclear Materials Safety

License No. 29-08285-03
Docket No. 030-31977
Control No. 122787

DOCUMENT NAME: S:\PENDING\CHUMC.DTL

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	MPerkins/gcb		SVilla.				
DATE	01/29/96		01/29/96		01/ /96		01/ /96

OFFICIAL RECORD COPY

ML 10

APPLICATION FOR MATERIAL LICENSE

ESTIMATED BURDEN PER RESPONSE TO COMPLY WITH THIS INFORMATION COLLECTION REQUEST: 9 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 (T-6 F33), 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
801 WARRENVILLE RD.
LISLE, IL 60532-4351

ALASKA, ARIZONA, ARKANSAS, CALIFORNIA, COLORADO, HAWAII, IDAHO, KANSAS,
LOUISIANA, MONTANA, NEBRASKA, NEVADA, NEW MEXICO, NORTH DAKOTA,
OKLAHOMA, OREGON, PACIFIC TRUST TERRITORIES, SOUTH DAKOTA, TEXAS, UTAH,
WASHINGTON, 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

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 _____
☒ C. RENEWAL OF LICENSE NUMBER 29-08285-03

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

COOPER HOSPITAL/UNIVERSITY MEDICAL CENTER
1 COOPER PLAZA
CAMDEN, NJ 08103

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

Same as in (2).

4. NAME OF PERSON TO BE CONTACTED ABOUT THIS APPLICATION

MICHAEL P. NUNNO, RSO

TELEPHONE NUMBER

609-342-2306

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.

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 3.E.

AMOUNT
ENCLOSED \$820.00

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 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.

CERTIFYING OFFICER -- TYPED/PRINTED NAME AND TITLE

Kevin G. Halpern, President and Chief
Executive Officer

SIGNATURE

Kevin G. Halpern

DATE

January 15, 1996

FOR NRC USE ONLY

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

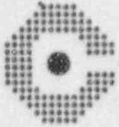
APPROVED BY

DATE

122787

Cooper Hospital/University Medical Center

One Cooper Plaza • Camden, New Jersey 08103
(609) 342-2000



5. RADIOACTIVE MATERIAL

Model of Irradiator and Manufacturer: IBL 437 C Type GN 89-292

CIS bioindustries S.A. Co

and Distributed by CIS-US

Radionuclide: Cs-137

Number of sources: 3

Approximate initial activity per source: 1700Ci

Approximate present activity per source: 1506Ci

Approximate initial total activity in irradiator: 5100Ci

Approximate present total activity in irradiator: 4518Ci

Maximum Possession Limit requested: 6000Ci

Source capsule information: double encapsulated stainless steel ANSI/ISO
29R/E 63446

License Renewal
January 1996
Page 2



6. USE OF RADIOACTIVE MATERIAL

We intend to use this device to irradiate blood and blood products.

7. INDIVIDUAL RESPONSIBLE FOR RADIATION SAFETY

Michael P. Nunno, M.S., D.A.B.R., CHP, the institution's radiation safety officer, will continue to be responsible for the radiation safety program for the irradiator.

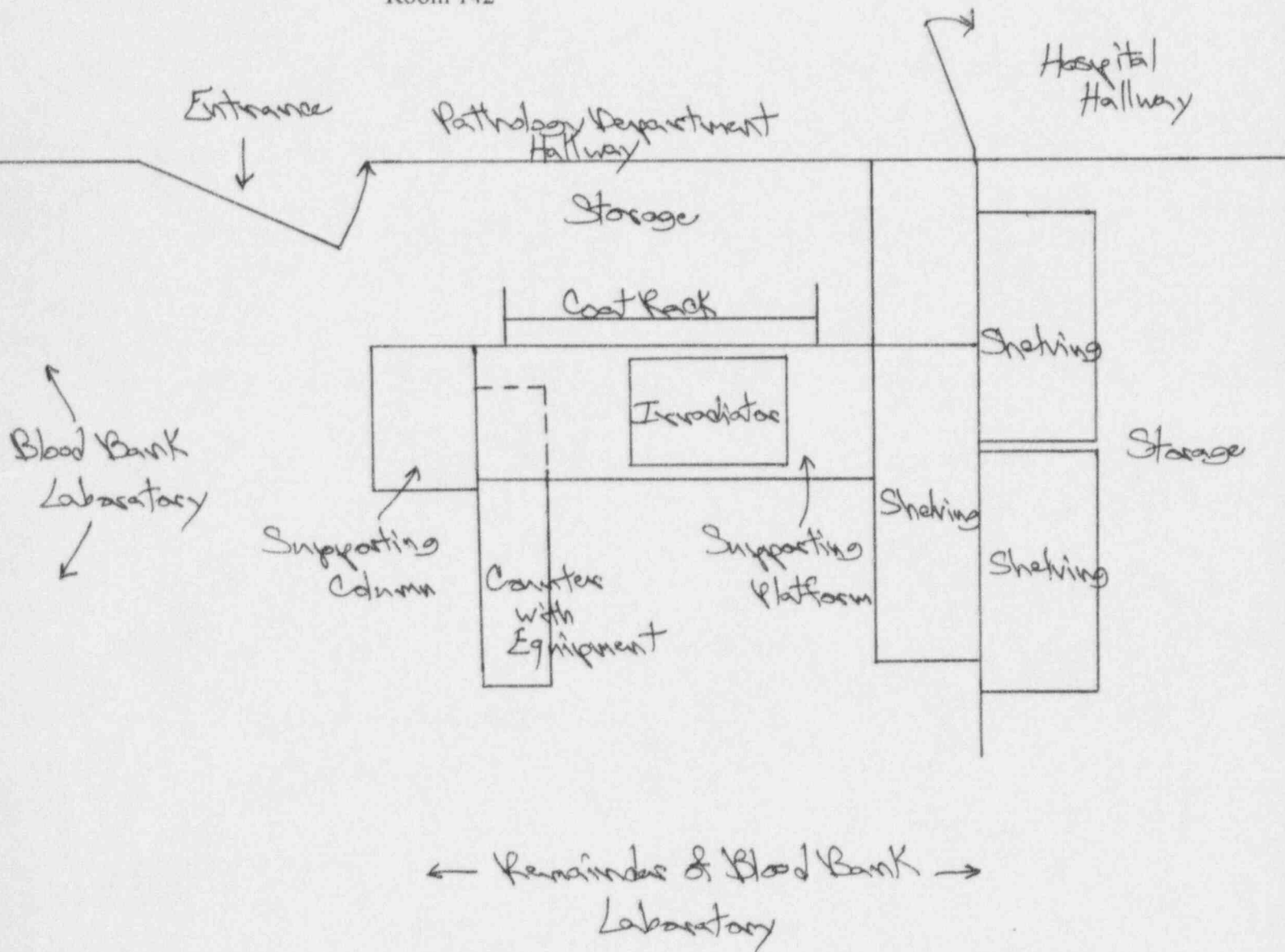
8. OPERATOR TRAINING

Each new employee during his/her orientation in the Blood Bank views videotapes made by Mr. Nunno which delivers radiation safety instruction in general terms, as well as specific to the IBL 437C Blood Irradiator. This training includes (1) the principles and fundamentals of radiation safety and good safety practices related to the use of radioactive materials, (2) the use of radiation detection instruments, and (3) the design and operation of the irradiator. A written examination is given to evaluate the understanding of the individuals who have completed the training program. A passing grade of 70 has to be achieved on the examination.

Each employee's training is documented.

9. FACILITIES AND EQUIPMENT

Irradiator Location: Pathology Department
Blood Bank Laboratory
Room 142



NOT DRAWN
TO SCALE

9. FACILITIES AND EQUIPMENT CONTINUED

The Pathology Department is composed of many laboratories all of which are open 24 hours. The main department door, however, is open only from 7:00 A.M. to 5:00 P.M. at the present. During this time the Blood Bank will always be occupied by laboratory personnel. When laboratory personnel are not constantly in attendance, i.e. 5:00 P.M. to 7:00 A.M., the main door will be locked. Thus, when laboratory personnel are not in attendance unauthorized entry is prevented.

10. RADIATION SAFETY PROGRAM

10.1 Personnel Monitoring

All personnel who will be using the irradiator are monitored with a whole body film badge dosimeter. The frequency of change is monthly. The commercial supplier is R.S. Landauer Jr. and Co.

10.2 Radiation Detection Instruments

The radiation physics staff of the institution has several calibrated radiation survey meters that can measure up to several hundred millirem per hour. One of these is used to perform the necessary radiation surveys.

All instruments are calibrated at least annually by Radiation Management Corporation (RMC), U.S. NRC license number 07-13129-01.

10.3 Leak Testing

Leak testing will be performed by Mr. Nunno, Radiation Safety Officer, or by one of the qualified radiation physicists under Mr. Nunno's supervision. The radiation physics staff has instrumentation capable of detecting 0.005 microcurie or more.

10.4 Operating and Emergency Procedures

All personnel involved in irradiator operation will be informed that the operating procedures will be maintained at the control station, and the emergency procedures will be conspicuously posted in the area. The topics covered include:

1. Step-by step procedures for operation of the irradiator which have been extracted from the manufacturer's manual.
2. The methods to ensure that only authorized persons will use the irradiator.
3. Inspections, test procedures, and maintenance to ensure that all safety interlocks, devices, and components associated with the irradiator are functioning properly.

The emergency procedures will have the home telephone number and extension of the radiation safety officer as well as the standard and emergency numbers of the regional headquarters of the U.S. NRC.

10.5 Irradiator Repair

All repair will be undertaken only by the manufacturer.

11. WASTE MANAGEMENT

11.1 Authorized Disposal

When the activity of the licensed material has reached the point where it no longer provides an adequate dose rate, disposal will be by transfer to the manufacturer or to a licensee specifically authorized to accept it.

11.2 Transportation

Transportation of licensed material which is no longer useful will be the responsibility of the manufacturer or the other licensee referenced above.

BETWEEN:

LICENSE FEE MANAGEMENT BRANCH, ARM
AND
REGIONAL LICENSING SECTIONS

(FOR LFMS USE)
INFORMATION FROM LTS

PROGRAM CODE: 03510
STATUS CODE: 2
FEE CATEGORY: 3E
EXP. DATE: 19960228
FEE COMMENTS:
DECOM FIN ASSUR REQD: N

LICENSE FEE TRANSMITTAL

A. REGION

1. APPLICATION ATTACHED

APPLICANT/LICENSEE: COOPER HOSPITAL/UNIV. MEDICAL CTR.
RECEIVED DATE: 960122
DOCKET NO: 3031977
CONTROL NO.: 122787
LICENSE NO.: 29-08285-03
ACTION TYPE: RENEWAL

2. FEE ATTACHED

AMOUNT: \$820.00
CHECK NO.: 0030160

3. COMMENTS

SIGNED M. A. Perkins
DATE 1/24/96

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

1. FEE CATEGORY AND AMOUNT: 3E 820

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

AMENDMENT
RENEWAL ☒
LICENSE

3. OTHER

SIGNED Bruce S.
DATE 1/30/96

I (96)

Log	<u>Jan 13</u>
Remitter	
Check No	<u>030160</u>
Amount	<u>\$820</u>
Fee Category	<u>3E</u>
Type of Fee	<u>REN</u>
Date Check Recd	<u>1/30/96</u>
Date Completed	
By	<u>B. Brown</u>

Refunded \$820 11/25/96

1996 JAN 29 AM 11:17

25-08285-03

DIVISION OF ACCOUNTING AND FINANCE

REQUEST FOR REFUND TO EMPLOYEE/VENDOR

NOV 25 1996

THE EMPLOYEE/VENDOR IDENTIFIED BELOW HAS OVERPAID THE NUCLEAR REGULATORY COMMISSION FOR GOODS AND/OR SERVICES PROVIDED AND IS DUE A REFUND

EMPLOYEE/VENDOR/PAYEE CODE: _____

NAME: COOPER HOSPITAL/UNIVERSITY MEDICAL CENTERADDRESS: ATTN: KEVIN G. HALPERN, PRESIDENT + CEOADDRESS: 1 COOPER PLAZACITY: CAMDEN STATE: NJ ZIP: 08103TRANS CODE: PXTRANS TYPE: FE FUND: X5280 JOB CODE: _____ AMOUNT: \$820.00TRANS TYPE: IR FUND: R1435 JOB CODE: INTR AMOUNT: _____TRANS TYPE: IR FUND: R1099 JOB CODE: ADCH AMOUNT: _____TRANS TYPE: IR FUND: R1099 JOB CODE: FINE AMOUNT: _____TOTAL REFUND AMOUNT: \$820.00COMMENTS: LIC 29-08285-03 5 YR EXT / CK 030160 / R.F.N.D

(limit comments to 40 characters, including spaces)

PREPARED BY: Brenda B... DATE: 11/6/96AUTHORIZED BY: Andrew L... DATE: 11/25/96

ORIGINAL INV. NO: _____ DATE PAID: _____ AMOUNT: _____

REFUND ENTERED IN O COLLECT BY: _____

REFUND DETERMINED BY: _____ DATE: _____

PLEASE ATTACH APPROPRIATE SUPPORTING DOCUMENTATION

I 60

Jan 13
APPL DTD 1/15/96
REN 3E FEE CAT
LICENSE EXTENDED
By RULEMAKING
12287 \$820