

VOID SHEET

TO: License Fee Management Branch  
FROM: PTL  
SUBJECT: VOIDED APPLICATION

Control Number: 253799  
Applicant: V of P.R.  
Date Voided: 12/5/90  
Reason for Void: Amendment not necessary license expired 10/31/90

Oran O. Keim  
Signature Date

Attachment:  
Official Record Copy of  
Voided Action

FOR LFMB USE ONLY

Final Review of VOID Completed:

- Refund Authorized and processed
- No Refund Due
- Fee Exempt or Fee Not Required

MC 20  
4

Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Log completed   
Processed by: V. M... 12/14/90

BETWEEN:

LICENSE FEE MANAGEMENT BRANCH, ARM  
AND  
REGIONAL LICENSING SECTIONS

: (FOR LFMS USE)  
: INFORMATION FROM LTS  
: -----  
:  
: PROGRAM CODE: 03510  
: STATUS CODE: 1  
: FEE CATEGORY: EX 3P  
: EXP. DATE: 19901031  
: FEE COMMENTS: -----  
: ::

LICENSE FEE TRANSMITTAL

A. REGION 11

1. APPLICATION ATTACHED

APPLICANT/LICENSEE: PUERTO RICO, UNIVERSITY OF  
RECEIVED DATE: 901029  
DOCKET NO: 3028351  
CONTROL NO.: 253799  
LICENSE NO.: 52-19434-03  
ACTION TYPE: TERMINATION

2. FEE ATTACHED

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

3. COMMENTS

SIGNED  
DATE

*[Signature]*  
-----  
-----

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

1. FEE CATEGORY AND AMOUNT: -----

*170.17(a)*

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

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

3. OTHER -----  
-----

SIGNED  
DATE

*[Signature]*  
-----  
*11/20/90*  
-----



UNIVERSIDAD DE PUERTO RICO RECINTO DE CIENCIAS MEDICAS  
UNIVERSITY OF PUERTO RICO, MEDICAL SCIENCES CAMPUS

OFICINA DEL RECTOR  
OFFICE OF THE CHANCELLOR

October 5, 1990

→ U.S. Nuclear Regulatory Commission  
Division of Industrial and  
Medical Nuclear Safety  
Washington, D.C. 20555

*application dated 18/88*

Dear Sirs:

This is in reply to your notice of expiration of our license number 52-19434-03 for the Cesium-137 instrument calibrator.

As you may know, the possession and use of this calibrator was included under our Broad Scope license number 52-01946-07 which is still active until August 1993. Records for this one are kept at your region II office in Atlanta, Georgia.

*01946-07 115 11/17*

Should you find that any further action has to be taken regarding this matter, please feel free to contact us.

Cordially,

*Manuel Marina*

Manuel Marina, MD  
Acting Chancellor

/iim

(nurc-7)

RECEIVED

90 DEC 14 11:29

RECEIVED

90 NOV 20 17:50

*11/20/90  
nw-5-II  
messin  
11/20/90*

FEE EXEMPT

*170.11(a)(1)*



UNIVERSIDAD DE PUERTO RICO, RECINTO DE CIENCIAS MEDICAS  
UNIVERSITY OF PUERTO RICO, MEDICAL SCIENCES CAMPUS

OFICINA DEL RECTOR  
OFFICE OF THE CHANCELLOR

October 22, 1990

Mr. Stuart Ebnetter  
Regional Administrator  
U. S. Nuclear Regulatory Commission  
Region II  
101 Marietta St. N. W.  
Atlanta, Georgia 30323

Dear Mr. Ebnetter:

This is a request for termination of the U. P. R.,  
Medical Sciences Campus N. R. C., Lic. No. 52-19434-03 for  
storage of a Co-60 sealed source in a Gamma Irradiator.

In support of this request, please find enclosed the  
"Certificate of Disposition of Materials" (NRC-Form 314) as  
well as the attachment "400 Ci Co-60 Source Transfer and  
Loading Procedures".

Please feel free to contact us, if you require any  
further information.

Sincerely yours,

Manuel Marina, M. D.  
Acting Chancellor

/mcg

Enclosure

*irradiator was  
disposed of through Burtel (DOE  
contractor) during decommissioning  
work at Mayaguez on 8/24/87.  
I saw all relevant documentation  
regarding this disposal.  
See 90-01 report  
for the bill  
for the bill  
11/6/90*

### CERTIFICATE OF DISPOSITION OF MATERIALS

(All items MUST be completed, please print)

LICENSEE NAME AND ADDRESS  UPR - Medical Sciences Campus G.P.O. Box 5067 San Juan, Puerto Rico 00936	LICENSE NUMBER  52-19434-03
	LICENSE EXPIRATION DATE  Oct. 31, 1990

THE LICENSEE OR ANY INDIVIDUAL EXECUTING THIS CERTIFICATE ON BEHALF OF THE LICENSEE CERTIFIES THAT (Check one or combine the two as appropriate.)

#### A. MATERIALS DATA (Check one and combine, as necessary.)

1. NO MATERIALS HAVE EVER BEEN POSSESSED OR PRODUCED BY THE LICENSEE UNDER THIS LICENSE.

2. ALL MATERIALS PRODUCED AND/OR POSSESSED BY THE LICENSEE UNDER THE LICENSE NUMBER CITED ABOVE HAVE BEEN TRANSFERRED ON

DATE	TO	WHICH HAS NRC LICENSE NUMBER

3. ALL MATERIALS PRODUCED AND/OR POSSESSED BY THE LICENSEE UNDER THE LICENSE NUMBER CITED ABOVE HAVE BEEN TRANSFERRED ON

DATE	TO	WHICH HAS LICENSE NUMBER	ISSUED BY THE STATE OF

4. AN AGREEMENT STATE PURSUANT TO SECTION 274 OF THE ATOMIC ENERGY ACT OF 1954, AS AMENDED, AND THE ENERGY REORGANIZATION ACT OF 1974.

5. MATERIALS HAVE BEEN DISPOSED OF IN THE FOLLOWING MANNER. (Describe specific disposal procedures--if additional space is needed, use the reverse of this form, or provide attachments.)

See Annex: "400 Ci Co-60 Source Transfer and Loading Procedure".

#### B. OTHER DATA

6. OUR LICENSE HAS NOT YET EXPIRED. PLEASE REPLY DATE IT EXPIRES.

7. 222 RADIATION SURVEY CONDUCTED 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

YES THE RESULTS (Check one)

ARE ATTACHED, OR

WERE FORWARDED TO NRC ON (Date)

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

NAME: JOSE V. PEREZ BOBONIS (RSO)

TELEPHONE NUMBER: (809) 766-3062

9. MAIL ALL FUTURE CORRESPONDENCE REGARDING THIS LICENSE TO

JEP - Medical Sciences Campus, Office of the Chancellor  
G.P.O. Box 5067, San Juan, Puerto Rico 00936

RETURN TO:  DIRECTOR, DIVISION OF FUEL CYCLE AND MATERIAL SAFETY OFFICE OF NUCLEAR MATERIAL SAFETY AND SAFEGUARDS U.S. NUCLEAR REGULATORY COMMISSION WASHINGTON, DC 20555	CERTIFYING OFFICIAL  SIGNATURE: <i>Manuel Marina</i> DATE: OCT. 22, 1990  PRINTED NAME AND TITLE: MANUEL MARINA, M.D. ACTING CHANCELLOR
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OFICINA DEL DECANO DE ADMINISTRACION  
OFFICE OF THE DEAN OF ADMINISTRATION

CERTIFICATION

The Co-60 source, 4605 Curies (12-16-68) stored and used in the Gamma Irradiator facilities, Basement HPO Laboratory, Room 179, Biomedical Building since December, 1968 was surrendered to U.S. Dept. of Energy, CREER, Univ. of Puerto Rico, Rd.108 Km. 1.1, Mayaguez, Puerto Rico 00708 (Berhtel National, Inc.) on August 24, 1987.

Procedures or removal, packing and delivery to the carrier were supervised and inspected from the point of view of occupational and radiological safety by Mr. P.K. Jackson and Mr. G.D. Santelle of Berhtel National, Inc. and by Mr. Santiago Gómez-Figueroa, UPR-MSR Radiation Protection Officer. (See enclosed for "Method of Loading 400 Curies Co-60 Sealed Source").

1. Maximum radiation levels recorded by G.M. Survey Meter (Eberline Model E-250 and calibrated on 10-10-86) were as follows:

- a) Contact to shielding surface:  $120.0 \frac{\text{mR}}{\text{h}}$
- b) At one meter from shielding surface:  $30.0 \frac{\text{mR}}{\text{h}}$
- c) Contact to shipping container:  $25 \frac{\text{mR}}{\text{h}}$
- d) At one meter from shipping container:  $3.0 \frac{\text{mR}}{\text{h}}$


2. Maximum removable contamination (wipe test technique):

- a) Top of the lead head (shielding surface):  $2.55 \times 10^{-4}$  uCi
- b) Top of the inside opening:  $4.82 \times 10^{-4}$  uCi
- c) Cone Shield inner surface:  $1.55 \times 10^{-4}$  uCi

Findings of the inspection are satisfactory and exposure limits to personnel and general population are within NRC standards and regulations.


DATE: 8/24/87

SIGNED:

  
Santiago Gomez  
Radiation Protection Officer

DATE: 8/24/87

RECEIVING BY:



CEER Mayaguez Decontamination

Bechtel National, Inc.

DOE Contract No. DE-AC05-87OR21616

400 Ci Co-60 Source Transfer  
and Loading Procedure

August 24, 1987

CEER

Centro Médico, Río Piedras

Puerto Rico

## 1.0 Purpose

This procedure describes the method to be used for removing, transferring and loading the 400 Ci Co-60 source located in Room-R-179 of the CEER facility at the University of Puerto Rico, Medical Sciences Campus in Río Piedras, Puerto Rico.

## 2.0 Scope

This procedure provides direction for disconnecting irradiator operating service lines, rigging the irradiator for removal, lifting the irradiator from its storage well, transferring the source to the GE IP-200 Transport cask and loading the cask into the trailer for transport to the CEER facility at Mayaguez, Puerto Rico.

Operation of the GE IP-200 cask will be in accordance with General Electric Irradiation Processing Operation, Radioactive Materials Services, Remote Handling Operations Standard Operating Procedure, Chapter XVIII, Shipping Assembly/Disassembly, Section K, Model No. IP-200-Loading/Unloading.

Nothing in this procedure will be construed to circumvent the GE Cask Operating Procedure.

## 3.0 Prerequisites

- 3.1 A truck preloading survey will be conducted per CEER Mayaguez Project Instruction PI-10967-WM-2.
- 3.2 LSA materials in Room R-179 will have been loaded into a 17H DOT Type A drum for transport to Mayaguez.
- 3.3. The source well access cover will have been removed and the GE IP-200 is ready to load.



3.4 Unnecessary personnel will have been cleared from the area, both inside and outside the building.

3.5 The transport truck will be parked in the driveway south of the building.

#### 4.0 Pre-cautions

4.1 Health Physics personnel will monitor dose rates throughout the evolution.

4.2 Stay clear of area below the irradiator assembly during crane movement.

4.3 Beware of higher dose rates below level of irradiator base.

4.4 Keep all personnel advised of activities and source movement.

4.5 Stand clear of all loads when suspended by crane.

#### 5.0 Procedure

##### 5.1 PREPARE IRRADIATOR

5.1.1 Ensure that the source is secure in the irradiator assembly, and that it will not change position when services are disconnected. (Figure 1. Shows the irradiator assembly).

5.1.2 Disconnect the service air, electrical actuator and indicator system lines and wires. Check that source has not moved.

5.1.3 Verify that assembly is free of support stand for lifting.

5.1.4 Place a device, such as a clamp, on the source extender to protect against inadvertent source exposure.

5.1.5 Remove the actuator cylinder from the assembly. Place it in an appropriate container.

5.1.6 Verify dose rates on all sides of irradiator.

## 5.2 RISE AND LEFT IRRADIATOR

5.2.1 Connect one lifting sling to each irradiator lifting lug.

5.2.2 Secure slings to crane hook, do not bundle slings.

5.2.3 Ensure that all personnel are aware of lift and that no unneeded people are in area.

5.2.4 The crane signal man will be stationed above the well and he alone will signal crane.

5.2.5 With one person in the room to verify that irradiator is clear of stand, raise the irradiator just clear of stand and interference. Vacate Room-R-179 when irradiator is free.

5.2.6 Continue lift, monitor above ground dose rates throughout remainder of transfer.

5.2.7 When clear of ground level obstructions swing load to alleyway, as near as possible to the GE IP-200 cask.

5.2.8 Raise the irradiator to just clear the IP-200 cask and move it to a position directly over the cask.

5.2.9 Slowly lower the irradiator onto the cask and spacers.

## 5.3 TRANSFER SOURCE

5.3.1 Prepare to transfer source by disconnecting weight from source, while maintaining a strain on source recovery wires.

- 5.3.2 Connect new support device (wire or white line) to source wires.
- 5.3.3 Disengage source recovery spring and operating shaft.
- 5.3.4. Slowly lower source into IP-200 cask. Monitor dose rate carefully during transfer.
- 5.3.5 Feed recovery wire through opening to be clear of irradiator. Tie-off to cask lifting lug temporarily.
- 5.3.6 Remove irradiator from top of IP-200 cask and place on driveway -- As quickly as safely possible.
- 5.3.7 Place IP-200 cask lid onto cask as instructed by cask operating procedure.

#### 5.4 CLOSE CASK AND PREPARE TO SHIP

- 5.4.1 Use the instructions in the IP-200 operating procedure to close cask and replace overpack.
- 5.4.2 Attach slings to GE-IP-200 cask as instructed by cask operating procedure (on assembly lifting lugs only).
- 5.4.3 Place cask into trailer and secure as required for compliance with DIT regulations.

#### 5.5. LOAD IRRADIATOR AND LSA PACKAGES

- 5.5.1 Load the irradiator by rigging it in same manner as when removing from well.
- 5.5.2 Tie-down irradiator with cables and come-along. Brace bottom with dunnage.
- 5.5.3 Rig the 55-gallon drum of LSA into the trailer, brace and tie-down as appropriate.

5.6 CLOSE TRAILER, SURVEY AND PLACARD

5.6.1 Close the trailer and seal with numbered seal.

5.6.2 Do a post load radiation survey per PI-18967-WM-2.

5.6.3 Place vehicle with "radioactive" placard on front, sides and rear.

5.6.4 Complete shipping papers and dispatch truck.

UNIVERSIDAD DE PUERTO RICO, RECINTO DE CIENCIAS MEDICAS  
UNIVERSITY OF PUERTO RICO, MEDICAL SCIENCES CAMPUS



OFICINA DEL RECTOR  
OFFICE OF THE CHANCELLOR

00 OCT 27 8:00



MR. STUART CENTER  
REGIONAL ADMINISTRATOR  
U.S. NUCLEAR REGULATORY COMMISSION  
REGION II  
101 MARLETTA ST. N.W.  
ATLANTA, GEORGIA 30323

