

TUFTS UNIVERSITY SCHOOL OF MEDICINE - NEW ENGLAND MEDICAL CENTER HOSPITAL

DEPARTMENT OF THERAPEUTIC RADIOLOGY
HEALTH PHYSICS DIVISION
F. X. MASSÉ
RADIATION SAFETY OFFICER

171 HARRISON AVENUE
BOSTON, MASSACHUSETTS 02111
AREA 956-6168

March 19, 1985

U.S. Nuclear Regulatory Commission
Region I
631 Park Avenue
King of Prussia, PA 19406

Gentlemen:

Tufts University School of Medicine hereby requests amendment to license #20-00045-10, reflecting a change in custodial arrangement over the irradiator facility covered by that license, and an improved security system that has recently been adapted.

Specifically, Walter Hughes, PhD., Professor and Chairman of the Physiology Department at the time of issuance of this license, and the initially designated source curator, has now fully retired. His replacement in the assignment of supervisor of the irradiator facility is Geronimo Terres, PhD., Professor of Physiology, who has worked with this facility for more than 10 years under Dr. Hughes and who had many years experience with similar irradiators at M.I.T. prior to his move to Tufts.

Additionally, the entire control program has become more formalized due to the increased number of persons interested in using this device, and Dr. Terres desire to more tightly control the program. Attached are examples of the paperwork that has been issued in recent months, as part of the improved control program. Health Physics has assumed a more active role in the control as well as the monitoring of this facility, and user training and registration has become formalized. The result of this effort is the desired rigid control of access to this device by only those people who have demonstrated their knowledge of its use to the satisfaction of Dr. Terres and/or the Health Physics Group.

Please don't hesitate to contact F.X. Massé at (617) 245-6600 if further information is required. A check for \$120.00 covering the amendment request under category 3E of 10CFR 170.31, is enclosed.

Yours Truly,

F.X. Massé
Francis X. Massé, RSO

Joseph Byrne
Joseph Byrne
Associate Dean for Governmental Affairs

Enclosures
:fjd

RECEIVED BY LFMD	
Date...	5/28/85
Log...	May 15 I
By...	Brown
Orig. To...	
Action Compl...	6/13/85

EX 3E	
Applicant...	9131
Check...	\$120
Check Returned 5/28/85	
Brown	

SI 47 MD 51 APR 86

RECEIVED-REGION 1

"OFFICIAL RECORD COPY"

ML10

03795

8510300128 850926
REG1 LIC30
20-00045-10 PDR

FEE EXEMPT

170.11(a)(4) MAY 13 1985
see 12/30/76 ltr.

RULES GOVERNING THE USE OF THE MODEL M GAMMATOR

The U. S. Nuclear Regulatory Commission requires, as a condition of TUSM's license to possess the Cesium-137 source, that:

- a) "the keys to the cesium-137 irradiator room be controlled by the custodian of this equipment."
- b) the keys be "released only to persons who have been properly trained in its (Model M Gammator's) use."
- c) "individuals using the cesium-137 irradiator register with the Health Physics Office as radiation workers."
- d) individuals using the cesium-137 irradiator "receive appropriate training in radiation safety."

In order to comply with the above mandates, the following rules have been instituted:

- a) keys to the irradiator room will be kept in a location designated by the Source Custodian.
- b) an Irradiator Use Log Book must be signed in order to obtain the keys.
- c) only individuals registered with the Health Physics Office may obtain the keys (for information on registration, contact Dr. G. Terres at X6737 or Health Physics at X6168).
- d) any registered user who has not used the irradiator for 1 year will be removed from the "registered user" list and must be re-trained and re-registered for subsequent use.
- e) Health Physics will inspect the Irradiator Use Log Book at regular intervals to verify compliance.



Department of Interimetric Radiology
Medical Physics Division

TO: All Concerned
FROM: Health Physics
RE: Cesium Irradiator

Date: 03-04-85

Due to the requirement of the U. S. Nuclear Regulatory Commission to allow only persons who have been properly trained and registered with the Health Physics Office access to the Cesium Irradiator, a registration protocol has been developed. Information on registration may be obtained by contacting Dr. G. Terres (Stearns 8, X6737) or Health Physics (Ziskind Basement, X6163).

ONLY REGISTERED USERS MAY OBTAIN THE IRRADIATOR KEYS.

During regular working hours, the keys are available through G. Terres or Health Physics.

After hours and on weekends, the keys will be located in Dr. Terres' laboratory (Stearns 8). Tufts Police will admit only registered users to the office to obtain the keys.

The following list of registered users will be updated as necessary:

Brown, Thomas
Burns, Mary Carol
Dick, Robert
Gatmaitan, Zenaida
Gifford, Julie
Hari Kumar, M. K.
Hawrylowicz, Catherine
Hocaman, Paula
Holz, George
Israelsohn, Ethan
Karagogeos, Domna
Keyes, L. M.
Khiroya, Raman
Maker, Leslie
Mann, Karen
Matejic, Tatjana
Mobtaker, Hamid
Mitchell, Tammy

Payne, Jennifer
Pereira, Miercio
Peterman, Gary
Plager, Michael
Rane, Stanley
Ray, Alex
Romeo, Diane
Rosenberg, Naomi
Roy, Syamal
Sager, William C.
Simonsen, Andrea
Stein, Monica
Sunshine, Geoffrey
Terres, Geronimo
Terres, Helen
Thorley-Lawson, David
Waite, Debby

Copies to: Health Physics, G. Terres, Physiology Office, Tufts Police

New England
Medical Center, Inc.

1795: Boston Dispensary
1844: Boston Floating Hospital
1903: Pathological Institute
1958: Rehabilitation Institute



Tufts University

1862: School of Medicine
1893: School of Dental Medicine
1978: School of Veterinary Medicine
1985: School of Nursing
Biomedical Sciences

Department of Therapeutic Radiology
Medical Physics Division

TO: All Concerned
FROM: Health Physics
RE: Cesium Irradiator

Date: _____

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Copies to: Health Physics, G. Terres, Physiology Office, Tufts Police

**New England
Medical Center, Inc.**

1796 Boston Dispensary
1894 Boston Floating Hospital
1938 Pratt Diagnostic Hospital
1958 Rehabilitation Institute



Tufts University

1893 School of Medicine
1899 School of Dental Medicine
1979 School of Veterinary Medicine
1980 Sachler School of Graduate
Biomedical Sciences

Department of Therapeutic Radiology
Medical Physics Division

December 12, 1984

TO: Tufts Police
FROM: Health Physics
RE: Access to cesium irradiator

The U. S. Nuclear Regulatory Commission has required TUSM to limit access to the cesium irradiator located in Stearns 817. Only those persons who have been adequately trained in its use and registered with Health Physics are permitted access to this equipment.

A list of those currently registered is attached.

Occasionally, these researchers may require access to the irradiator during "off hours" (evenings and weekends). During such times the keys to the room (St 817) and the irradiator will be located in the Physiology Department Office. We request that during such times, persons on the "registered user" list be admitted by Tufts Police to the Physiology Office to obtain the keys to St 817 and the cesium irradiator.

If there are any questions, please contact Health Physics at X6168. Thank you for your cooperation in this matter.

Sincerely,

James C. Harrington
Health Physics Office

REGISTRATION FOR UNSUPERVISED USE OF THE MODEL M GAMMATOR

To be completed by the Applicant:

NAME: _____ DEPT.: _____

TEL #: _____ SUPERVISOR: _____

I certify that I have:

a) received instruction in the principles of radiation safety
from: () Health Physics () Other _____

b) read the Instruction Manual & Owners Guide of the Model M
Gammator

c) familiarized myself with the emergency procedures

d) received training in the use of the Model M Gammator from:
() the Source Custodian or () his designate _____

SIGNATURE: _____ DATE: _____

To be completed by the Source Custodian:

I certify that I have reviewed the qualifications and training
of the above applicant, and I approve the registration of said
applicant for unsupervised use of the Model M Gammator.

SIGNATURE: _____ DATE: _____

UPON COMPLETION, RETURN TO HEALTH PHYSICS, BOX 787.

For Health Physics use:

Registration approved: _____ Date: _____

Registration #: _____ Initials: _____