

## MATERIALS LICENSE

Amendment No. 27

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 September 24, 1996,	
1. Cape Cod Hospital	3. License Number 20-12498-01 is amended in its entirety to read as follows:	
2. 27 Park Street Hyannis, Massachusetts 02601	4. Expiration Date November 30, 2004	
	5. Docket or Reference No. 030-01949	
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. Any byproduct material identified in 10 CFR 35.100	A. Any radiopharmaceutical identified in 10 CFR 35.100	A. As needed
B. Any byproduct material identified in 10 CFR 35.200	B. Any radiopharmaceutical identified in 10 CFR 35.200	B. As needed
C. Any byproduct material identified in 10 CFR 35.300	C. Any radiopharmaceutical identified in 10 CFR 35.300	C. 1000 millicuries
D. Uranium depleted in Uranium 235	D. Metal	D. 140 kilograms
E. Iodine 125	E. As identified in 10 CFR 35.400	E. 1000 millicuries
F. Palladium 103	F. As identified in 10 CFR 35.400	F. 1000 millicuries

## 9. Authorized use

- A. Any uptake, dilution and excretion procedure approved in 10 CFR 35.100.
- B. Any imaging and localization procedure approved in 10 CFR 35.200.
- C. Any radiopharmaceutical therapy procedure approved in 10 CFR 35.300.
- D. Shielding in a linear accelerator.
- E. and F. Any brachytherapy procedure approved in 10 CFR 35.400.

## CONDITIONS

- 10. Licensed material may be used only at the licensee's facilities located at 27 Park Street, Hyannis, Massachusetts.
- 11. The Radiation Safety Officer for this license is Philippe B. Bricout, M.D.



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MATERIALS LICENSE  
SUPPLEMENTARY SHEET

License Number

20-12498-01

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030-01949

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12. Licensed material listed in Item 6 above is only authorized for use by, or under the supervision of, the following individuals for the materials and uses indicated:

Authorized UsersMaterial and Use

Frederick J. Thyng, M.D.

35.100; 35.200; 35.300  
Depleted uranium for shielding

John D. Osmond, III, M.D.

35.100; 35.200;  
Iodine 131 for treatment of hyperthyroidism  
and cardiac dysfunction

Keith C. Richards, M.D.

35.100; 35.200  
Iodine 131 for treatment of hyperthyroidism  
and cardiac dysfunction

Loren C. Burger, M.D.

35.100; 35.200  
Iodine 131 for treatment of hyperthyroidism  
and cardiac dysfunction

William J. Daly, M.D.

35.100; 35.200  
Iodine 131 for treatment of hyperthyroidism  
and cardiac dysfunction

Philip N. Chiotellis, M.D.

35.200 for cardiovascular clinical procedures

Keith M. Rapp, M.D.

35.100; 35.200  
Iodine 131 for treatment of hyperthyroidism  
and cardiac dysfunction

Philippe B. Bricout, M.D.

Strontium 89 for procedures approved in 35.300;  
Iodine 125 and Palladium 103 sealed sources

Vikas Saini, M.D.

35.200 for cardiovascular clinical procedures

Maya Simanovsky, M.D.

Strontium 89 for procedures approved in 35.300

13. In addition to the possession limits in Item 8, the licensee shall further restrict the possession of licensed material so that at no time is a quantity of radioactive material possessed in excess of a quantity which requires decommissioning funding in accordance with 10 CFR 30.35(d), 10 CFR 40.36(b) or 10 CFR 70.25(d).
14. Notwithstanding the requirements of 10 CFR 35.400(g), the licensee may use palladium-103 as a sealed source in seeds for topical, interstitial, and intracavitary treatment of cancer. The licensee may deviate from the manufacturer's radiation safety and handling instructions to the extent that the instructions are not applicable to the type of use proposed by the licensee.
15. The licensee is authorized to transport licensed material in accordance with the provisions of 10 CFR Part 71, "Packaging and Transportation of Radioactive Material."

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16. 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, except for minor changes in the medical use radiation safety procedures as provided in 10 CFR 35.31. The U.S. 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 September 25, 1994
- B. Facsimile with attachments received October 6, 1994
- C. Application dated February 29, 1996
- D. Letter dated April 25, 1996
- E. Letter dated May 7, 1996

OCT 10 1996

Date \_\_\_\_\_

For the U.S. Nuclear Regulatory Commission

**ORIGINAL SIGNED BY:**

By

**JO ANN V. STAMBAUGH**

Nuclear Materials Safety Branch  
Region I

King of Prussia, Pennsylvania 19406

OCT 10 1996

Mr. James F. Lyons  
President  
Cape Cod Hospital  
27 Park Street  
Hyannis, MA 02601

Dear Mr. Lyons:

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.

Your license has been issued in the name of an institution, please ensure that all license amendment or renewal requests are signed by a representative of the institution's management. This will assure that management has concurred with all commitments.

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:  
JO ANN V. STAMBAUGH**

JoAnn V. Stambaugh  
Division of Nuclear Materials Safety

License No. 20-12498-01  
Docket No. 030-01949  
Control No. 123723

Enclosure:

Amendment No. 27

DOCUMENT NAME: R:\WPS\MLTR\L2012498.01

To receive a copy of this document, indicate in the box: "C" = Copy w/ attach/encl "E" = Copy w/ attach/encl "N" = No copy

OFFICE	DNMS/RI	N	DNMS/RI				
NAME	Stambaugh/jvs	48					
DATE	09/30/96	9/30/96	09/ /96	09/ /96	09/ /96	09/ /96	

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**ML 10**



# CAPE COD HOSPITAL

P.O. Box 640 • 27 Park Street Hyannis, MA 02601 • (508) 771-1800

September 23, 1996

030-01949

United States Nuclear Regulatory Commission  
Materials License Team  
475 Allendale Road  
King of Prussia, PA 19406

License: Cape Cod Hospital  
License # 20-12498-01  
Docket # 03-01949

To Whom It May Concern:

This is to inform you, effective this day, that Phillippe Bricout, M.D.,  
is temporary Radiation Safety Officer.

A proper amendment with payment will be filed to complete this temporary  
request.

Sincerely,

Daniel Fitzgerald  
Radiation Safety Committee Chairman

DF/cl

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123723

SEP 28 1996

FAX REC'D SEP 23 1996



# CAPE COD HOSPITAL

P.O. Box 640 • 27 Park Street Hyannis, MA 02601 • (508) 771-1800

September 20, 1996

United States Nuclear Regulatory Commission  
Materials License Team  
475 Allendale Road  
King of Prussia, PA 19406

License: Cape Cod Hospital  
License #: 20-12498-01  
Docket #: 030-01949

To Whom It May Concern:

This is to inform you, effective this day, that Gregory L. Dubuque, Ph.D. is no longer Radiation Safety Officer at this hospital.

Sincerely,

Daniel Fitzgerald  
Radiation Safety Committee Chairman

DF/ach

SEP 25 1996

SEP 20 1996

FAX REC'D

(FOR LFMS USE)  
INFORMATION FROM LFS

BETWEEN:

LICENSE FEE MANAGEMENT BRANCH, ARM  
AND  
REGIONAL LICENSING SECTIONS

PROGRAM CODE: 02120  
STATUS CODE: 0  
FEE CATEGORY: 7C  
EXP. DATE: 20041130  
FEE COMMENTS: CODE 23  
DECOM FIN ASSUR REQD: N

LICENSE FEE TRANSMITTAL

A. REGION I

1. APPLICATION ATTACHED

APPLICANT/LICENSEE: CAPE COD HOSPITAL  
RECEIVED DATE: 960923  
DOCKET NO: 3001949  
CONTROL NO.: 123723  
LICENSE NO.: 20-12498-01  
ACTION TYPE: AMENDMENT

2. FEE ATTACHED

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

3. COMMENTS

SIGNED M.A. Leblanc  
DATE 9/24/96

1996 SEP 30 AM 11:36

B. LICENSE FEE MANAGEMENT BRANCH (CHECK WHEN MILESTONE 03 IS ENTERED 12/1)

1. FEE CATEGORY AND AMOUNT: 7C \$440

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

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

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

SIGNED -----  
DATE -----

I (96)

Log	<u>Sept 1</u>
Handler	
Check No	<u>194434</u>
Amount	<u>\$440</u>
Fee Category	<u>7C</u>
Type of Fee	<u>AM</u>
Date Check Rec'd	<u>10/3/96</u>
Date Completed	<u>10/3/96</u>
By	<u>DA</u>