

MATERIALS LICENSE

Amendment No. 32

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

1. Faulkner Hospital

2. 1153 Centre Street
Boston, Massachusetts 02130In accordance with the letter dated
July 9, 1996,3. License Number 20-07347-01 is amended in
its entirety to read as follows:

4. Expiration Date April 30, 2004

5. Docket or
Reference No. 030-018936. Byproduct, Source, and/or
Special Nuclear Material7. Chemical and/or Physical
Form8. Maximum Amount that Licensee
May Possess at Any One Time
Under This LicenseA. Any byproduct material
identified in 10 CFR
35.100B. Any byproduct material
identified in 10 CFR
35.200C. Any byproduct material
identified in 10 CFR
35.300D. Any byproduct material
identified in 10 CFR
35.500

E. Hydrogen 3

F. Carbon 14

G. Phosphorus 32

H. Sulfur 35

I. Iodine 125

A. Any radiopharmaceutical
identified in 10 CFR
35.100B. Any radiopharmaceutical
identified in 10 CFR
35.200C. Any radiopharmaceutical
identified in 10 CFR
35.300D. Any diagnostic source
identified in 10 CFR
35.500

E. Any

F. Any

G. Any

H. Any

I. Any

A. As needed

B. As needed

C. As needed

D. As needed

E. 20 millicuries

F. 10 millicuries

G. 10 millicuries

H. 10 millicuries

I. 10 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 for which the
patient may be released under the provisions of 10 CFR 35.75.D. Medical use of sealed sources included in 10 CFR 35.500 in compatible devices
registered pursuant to 10 CFR 30.32(g).

E. through I. Research and development as defined in 10 CFR 30.4.

ML 109610110117 960809
PDR ADOCK 03001893
C PDR

MATERIALS LICENSE
SUPPLEMENTARY SHEET

License Number

20-07347-01

Docket or Reference Number

030-01893

Amendment No. 32

CONDITIONS

10. Licensed material may be used only at the licensee's facilities located at 1153 Centre Street, Boston, Massachusetts.
11. The Radiation Safety Officer for this license is A. Alan Semine, M.D.
12. A. Licensed material listed in Item 6.A., B., C., and D. above is only authorized for use by, or under the supervision of, the following individuals for the materials and uses indicated:
- | <u>Authorized Users</u> | <u>Material and Use</u> |
|--------------------------|--|
| Barbara Byse, M.D. | 35.100; 35.200; 35.500 |
| Norman L. Sadowsky, M.D. | 35.100; 35.200; 35.300; 35.500 |
| A. Alan Semine, M.D. | 35.100; 35.200; 35.500 |
| Lawrence Wolbarsht, M.D. | 35.100; 35.200; 35.500
Iodine 131 for treatment of hyperthyroidism
and cardiac dysfunction |
- B. Licensed material listed in Items 6.E. through 6.I. shall be used by, or under the supervision of, Ann Kiessling, Ph.D., Kenneth Pierce, Ph.D., Scott Shepard, Ph.D., Lawrence Wolbarsht, M.D., or Moshe Zilbertstein, M.D.
13. The licensee shall not use licensed material in or on human beings except as provided otherwise by specific condition of this license.
14. The licensee shall not use licensed material in field applications where activity is released except as provided otherwise by specific condition of this license.
15. In addition to the possession limits in Item 8, the licensee shall further restrict the possession of licensed material to quantities below the minimum limit specified in 10 CFR 30.35(d), 40.36(b), and 70.25(d) for establishing financial assurance for decommissioning.
16. In addition to the possession limits in Item 8, the licensee shall further restrict the possession of licensed material at a single location to quantities below the limits specified in 10 CFR 30.72 which require consideration of the need for an emergency plan for responding to a release of licensed material.
17. The licensee is authorized to transport licensed material in accordance with the provisions of 10 CFR 71, "Packaging and Transportation of Radioactive Material."

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18. The licensee is authorized to hold radioactive material with a physical half-life of less than 65 days and sulfur 35 for decay-in-storage before disposal in ordinary trash, provided:
- A. Waste to be disposed of in this manner shall be held for decay a minimum of ten half-lives.
 - B. Before disposal as ordinary trash, the waste shall be surveyed at the container surface with the appropriate survey instrument set on its most sensitive scale and with no interposed shielding to determine that its radioactivity cannot be distinguished from background. All radiation labels shall be removed or obliterated.
 - C. A record of each such disposal permitted under this License Condition shall be retained for three years. The record must include the date of disposal, the date on which the byproduct material was placed in storage, the radionuclides disposed, the survey instrument used, the background dose rate, the dose rate measured at the surface of each waste container, and the name of the individual who performed the disposal.
19. 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 August 30, 1993
 - B. Letter dated September 27, 1993
 - C. Letter dated January 25, 1994
 - D. Letter dated March 16, 1994
 - E. Letter dated October 6, 1994
 - F. Letter dated July 9, 1996

AUG - 9 1996

Date _____

For the U.S. Nuclear Regulatory Commission

Original Signed By:
Michelle Beardsley

By _____

Nuclear Materials Safety Branch
Region I
King of Prussia, Pennsylvania 19406

AUG - 9 1996

Kenneth Belcher, Vice President
Ambulatory and Clinical Services
Faulkner Hospital
1153 Centre Street
Boston, MA 02130

Dear Mr. Belcher:

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.

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:
Mohamed M. Shanbaky

Michelle R. Beardsley
Division of Nuclear Materials Safety

License No. 20-07347-01
Docket No. 030-01893
Control No. 123423

Enclosure:
Amendment No. 32

DOCUMENT NAME: R:\WPS\MLTR\L2007347.01

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				
NAME	Beardsley <i>ms</i>						
DATE	08/09/96	08/	/96	08/	/96	08/	/96

OFFICIAL RECORD COPY

ML 10



030-01893

July 9, 1996

License Number 20-07347-01

US Nuclear Regulatory Commission
Region I
475 Allendale Road
King of Prussia, PA 19406

Gentlemen:

Faulkner Hospital hereby requests amendment to license number 20-07347-01 reflecting changes in the area of use associated with cardiac stress testing. The cardiac stress portion of these exams involve the shared use of space and treadmill with the Cardiac Treatment Center of this hospital. The diagram supplied with 1993 renewal application was a diagram of that laboratory, which is separate from Nuclear Medicine. The cardiac stress lab has recently been **temporarily relocated to an interim space** due to new construction and will soon be relocated again when the construction is complete and the new Cardiac Treatment area opens. Enclosed are diagrams of the first and second relocations of this facility.

Our use of this stress facility involves the sharing of the treadmill and cardiac monitoring equipment when a nuclear stress is involved. The individual patient radiopharmaceutical dose is brought to the stress lab specifically for each patient, administered as the patient is appropriately stressed, then all residual activity and waste is returned to Nuclear Medicine and the treadmill area surveyed before leaving the area. The facility is then used for non-nuclear stress tests without restriction. We have considered this as comparable to administering a bone dose in the patient's room or ICU prior to their later transfer to Nuclear Medicine for imaging, a location use which needs not be specifically identified on the license.

OFFICIAL RECORD COPY

ML 10

123423

617-983-7000

1153 Centre Street, Boston, MA 02130

JUL 11 1996

If this occasional sharing of the stress lab must be specifically covered on the license, please consider this as an amendment request for the present tempoary relocation of stress testing to the shared facility on the fourth floor, plus coverage for the future location proposed for occupancy in the near future, when the current construction project is completed. As always, we will continue to treat this location as a transient site for patient dose administration, transport only patient doses to that location as needed for a specific patient, remove all activity and waste immediately after the dose delivery, and survey the area before leaving.

Once the interim space is vacated it will have a termination survey complete with wipe tests to insure the area is safe before being re-occupied for other medical use. A copy of the survey results will be reviewed by our physicist and Radiation Safety Officer and be kept on file at the Faulkner Hospital.

Enclosed is a check for \$430.00 covering this amendment request under category 7C of 10CFR Part 170. Please don't hesitate to call F.X. Masse at (617) 253-9217 if further information is required.

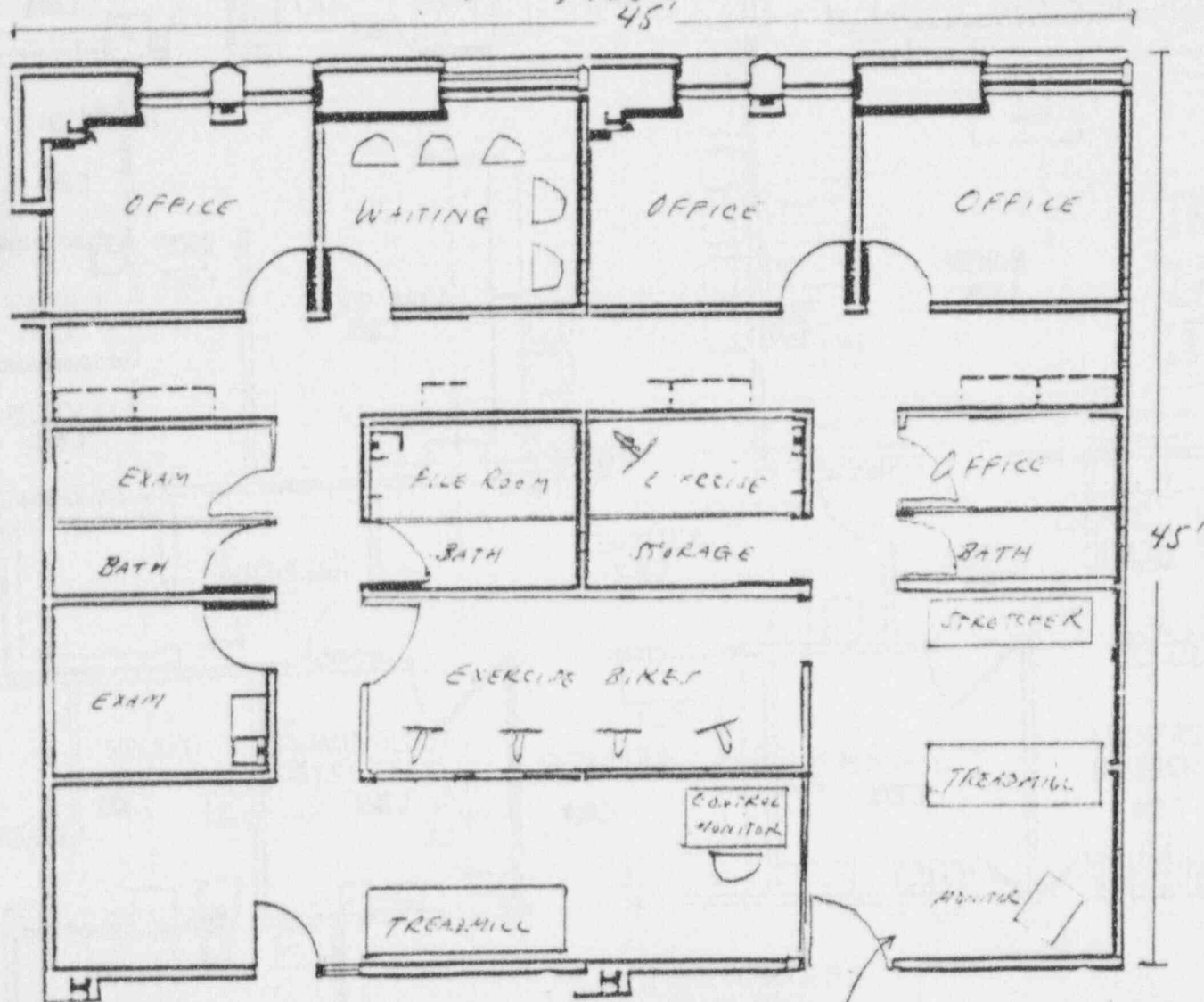
Sincerely yours,

Kenneth H. Belcher (ms)

Kenneth Belcher
Vice President
Ambulatory and Clinical Services

TEMPORARY LOCATION

4th Floor
45'



CARDIAC
STRESS
TESTING

LICENSE FEE REQUIREMENTS

LICENSE FEE AND DEBT COLLECTION BRANCH
DIVISION OF ACCOUNTING AND FINANCE
OFFICE OF THE CONTROLLER
U.S. NUCLEAR REGULATORY COMMISSION
WASHINGTON, DC 20555-0001

TYPE OF ACTION

- ☒ NEW LICENSE
☐ RENEWAL OF LICENSE
☐ AMENDMENT TO LICENSE

REQUESTED DATE

7-9-96

LICENSE NUMBER

20-07347-01

CONTROL NUMBER

123423

FAULKNER HOSPITAL
ATTN: KENNETH BELCHER
VICE PRESIDENT
AMBULATORY AND CLINICAL SERVICES
1153 CENTRE STREET
BOSTON, MA 02130

I. APPLICATION FEE DUE

Your request for a licensing action is subject to the fee(s) in the category(ies) noted below in accordance with Section 170.31 of the enclosed Federal Register notice. Payment of the fee is required prior to the issuance of the license, renewal, or amendment.

FEE CATEGORY	APPLICATION	RENEWAL	AMENDMENT
7C	\$	\$	\$ 440.00
	\$	\$	\$
	\$	\$	\$
	\$	\$	\$
	\$	\$	\$
	\$	\$	\$
	\$	\$	\$
	\$	\$	\$
	\$	\$	\$

FEE(s) DUE	\$	440.00
PAYMENT RECEIVED	\$	430.00
AMOUNT DUE	\$	10.00

☒ Your request was received without the prescribed application fee.

☒ We received your Check No. 220474 in the amount of \$ 430.00. Payment of the additional fee noted above is required.

☐ Your request will increase the scope of your license program. Therefore, your request is subject to the application fee(s) noted above. Refer to Section 170.31 and Footnote 1(d)(2).

☐ Your license expired prior to the receipt of your application for renewal. Therefore, your request is subject to the application fee(s) noted above. Refer to Section 170.31 and Footnote 1(a).

MAKE PAYMENT OF THE FEE(S) TO THE U.S. NUCLEAR REGULATORY COMMISSION AND MAIL THE PAYMENT TO THE ADDRESS LISTED AT THE TOP OF THIS FORM. IF WE DO NOT RECEIVE A REPLY FROM YOU WITHIN 30 CALENDAR DAYS FROM THE DATE LISTED BELOW, WE SHALL ASSUME THAT YOU DO NOT WISH TO PURSUE YOUR APPLICATION AND WILL VOID THIS ACTION.

II. FEE NOT REQUIRED

☐ Enclosed is Check No. _____ which accompanied your request. The fee is not required because:

☐ We received your Check No. _____ in payment of the fee.

☐ The Licensing staff has informed us that your request is to be considered as a continuation of your request dated _____.

Control No. _____

☐ Your request was combined, prior to review, with your request, Control No. _____.

III. CHECK RETURNED

☐ Enclosed is Check No. _____ which was returned to us by the bank for:

☐ INSUFFICIENT FUNDS☐ ACCOUNT CLOSED☐ OTHER

MAIL THE REPLACEMENT CHECK TO THE ADDRESS LISTED AT THE TOP OF THIS FORM AND REFERENCE THE ABOVE CONTROL NUMBER.

IV. LICENSE ISSUED WITHOUT THE REQUIRED FEE

☐ License No. _____ Amendment No. _____, issued on _____.

_____ was issued without the required fee being collected. The fee required is noted in Section I of this form.

☐ The scope of your licensed program was increased. Therefore, your request is subject to the application fee(s) noted in Section I of this form. Refer to Section 170.31 and Footnote 1(d)(2).

☐ Because of the urgency of your request, the license was issued without remittance of the prescribed fee noted in Section I of this form.

SIGNATURE - LICENSE FEE ANALYST

LFDCB

LFDCB

Distribution:

DATE

BRENDA BROWN

BBB
7/18/96

MAF Correspondence

LFDCB Chief

Invoice File w/encl

LFDCB Analyst

LFDCB R/F

DAF R/F

7-18-96

BETWEEN:

LICENSE FEE MANAGEMENT BRANCH, ARM
AND
REGIONAL LICENSING SECTIONS

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: PROGRAM CODE: 02120
: STATUS CODE: 0
: FEE CATEGORY: 7C
: EXP. DATE: 20040430
: FEE COMMENTS: -----
: DECOM FIN ASSUR REQD: N
:
: .....
```

LICENSE FEE TRANSMITTAL

A. REGION

1. APPLICATION ATTACHED
APPLICANT/LICENSEE: FAULKNER HOSPITAL
RECEIVED DATE: 960711
DOCKET NO: 3001893
CONTROL NO.: 123423
LICENSE NO.: 20-07347-01
ACTION TYPE: AMENDMENT

2. FEE ATTACHED ~~✓~~
AMOUNT: 430.00
CHECK NO.: 220474

3. COMMENTS

SIGNED
DATE

M. A. Perkins
2/14/86

8. LICENSE FEE MANAGEMENT BRANCH (CHECK WHEN MILESTONE 03 IS ENTERED) 1 1

1. FEE CATEGORY AND AMOUNT: 7C A440

2. CORRECT FEE PAID- APPLICATION MAY BE PROCESSED FOR:
AMENDMENT -----
RENEWAL -----
LICENSE -----

3. OTHER -----

SIGNED
DATE

Log July 8
Remitter _____
Check No. 220974 / 202945
Amount 8430 + 610
Fee Category 7c
Type of Fee ARM
Date Check Rec'd 8/15/16
Date Completed _____
By AB

07 Jan 8/9/8r

(617-983-7888) 8/8/94

Mary Cross called,
she spoke to Mr. Perkins the
sold her a fur was due
of \$10 before the amount
would be sent.

8/9/56
Requested an expedite. I gave
the Asst (FIO) needed, check to
be sent this afternoon.

BB

1976 JUL 15 AM 10:52