

MATERIALS LICENSE

Amendment No. 61

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

<p>Licensee</p> <p>1. St. Francis Medical Center</p> <p>2. 400 - 45th Street Pittsburgh, Pennsylvania 15201</p>	<p>In accordance with the letter dated May 30, 1997,</p> <p>3. License Number 37-01072-01 is amended in its entirety to read as follows:</p> <p>4. Expiration Date August 31, 2005</p> <p>5. Docket or Reference No. 030-02976</p>	
<p>6. Byproduct, Source, and/or Special Nuclear Material</p> <p>A. Any byproduct material identified in 10 CFR 35.100</p> <p>B. Any byproduct material identified in 10 CFR 35.200</p> <p>C. Any byproduct material identified in 10 CFR 35.300</p> <p>D. Any byproduct material identified in 10 CFR 35.400</p> <p>E. Any byproduct material identified in 10 CFR 31.11</p> <p>F. Strontium 90</p>	<p>7. Chemical and/or Physical Form</p> <p>A. Any radiopharmaceutical identified in 10 CFR 35.100</p> <p>B. Any radiopharmaceutical identified in 10 CFR 35.200 except generators</p> <p>C. Any radiopharmaceutical identified in 10 CFR 35.300</p> <p>D. Any brachytherapy source identified in 10 CFR 35.400</p> <p>E. Prepackaged Kits</p> <p>F. Sealed Source</p>	<p>8. Maximum Amount that Licensee May Possess at Any One Time Under This License</p> <p>A. As needed</p> <p>B. As needed</p> <p>C. 500 millicuries</p> <p>D. 2 curies</p> <p>E. 2 millicuries</p> <p>F. 10 millicuries</p>
<p>9. Authorized use</p> <p>A. Any uptake, dilution and excretion procedure approved in 10 CFR 35.100.</p> <p>B. Any imaging and localization procedure approved in 10 CFR 35.200.</p> <p>C. Any radiopharmaceutical therapy procedure approved in 10 CFR 35.300.</p> <p>D. Any brachytherapy procedure approved in 10 CFR 35.400.</p> <p>E. <u>In vitro</u> studies.</p> <p>F. Constancy checks of ionization chamber</p>		

CONDITIONS

10. Licensed material may be used only at the licensee's facilities located at 400 - 45th Street, Pittsburgh, Pennsylvania and licensed material in Item 6.B. at Room 218, Suite 100, 4221 Penn Avenue, Pittsburgh, Pennsylvania and One St. Francis Way, Cranberry Township, Pennsylvania.
11. The Radiation Safety Officer for this license is Krishnadas Banerjee, Ph.D. 0/1

9707090345 970625
PDR ADOCK 03002976
C PDR



ML 10

MATERIALS LICENSE
SUPPLEMENTARY SHEET

License number

37-01072-01

Docket or Reference number

030-02976

Amendment No. 61

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

Lawrence Bucklew, M.D.	35.200 for cardiovascular clinical procedures
P.P. Chengappa, M.D.	35.200 for cardiovascular clinical procedures
John George, M.D.	35.200 for cardiovascular clinical procedures
Revati Ghatnekar, M.D.	35.200 for cardiovascular clinical procedures
Michael F. Hagerty, M.D.	35.200 for cardiovascular clinical procedures
Chandra R. Polam, M.D.	35.200 for cardiovascular clinical procedures
Makum Ramesh, M.D.	35.200 for cardiovascular clinical procedures
Mark Schmidhofer, M.D.	35.200 for cardiovascular clinical procedures
Vinod H. Shah, M.D.	35.100; 35.200; 35.300; 35.400
David P. Shreiner, M.D.	35.100; 35.200; 35.300; <u>in vitro</u> studies
Andres Ticzon, M.D.	35.200 for cardiovascular clinical studies
Joseph A. Wapenski, M.D.	35.100; 35.200; 35.300; <u>in vitro</u> studies
Yaser Kalash, M.D.	35.200 for cardiovascular clinical procedures
Ragoor K. Reddy, M.D.	35.200 for cardiovascular clinical procedures
Ram L. Dhawan, M.D.	35.200 for cardiovascular clinical procedures
Santosh M. Pandit, M.D.	35.200 for cardiovascular clinical procedures
Parminder K. Sharma, M.D.	35.200 for cardiovascular clinical procedures
Ralph Fitz, M.D.	35.200 for cardiovascular clinical procedures
Krishnadas Banerjee, Ph.D.	Strontium 90 sealed source for constancy checks of ionization chamber
Asha Raman, M.D.	35.200 for cardiovascular clinical procedures

13. 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.

14. The licensee is authorized to transport licensed material in accordance with the provisions of 10 CFR Part 71, "Packaging and Transportation of Radioactive Material."

**MATERIALS LICENSE
SUPPLEMENTARY SHEET**

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15. 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 May 26, 1995
- B. Letter dated August 3, 1995
- C. Letter dated December 21, 1995
- D. Letter dated January 4, 1996
- E. Letter dated September 20, 1996
- F. Letter dated October 22, 1996
- G. Letter dated April 30, 1997



JUN 25 1997

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

JUN 25 1997

Krishnadas Banerjee, Ph.D.
Radiation Safety Officer
St. Francis Medical Center
400-45th Street
Pittsburgh, PA 15201-1198

Dear Dr. Banerjee:

This refers to your license amendment request. Enclosed with this letter is the amended 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:
Michelle Beardsley

Michelle R. Beardsley
Division of Nuclear Materials Safety

License No. 37-01072-01
Docket No. 030-02976
Control No. 124652

Enclosure:
Amendment No. 61

DOCUMENT NAME: R:\WPS\MLTR\13701072.01

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						
DATE	06/16/97		06/ /97		06/ /97		06/ /97

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030-02976

ST. FRANCIS MEDICAL CENTER

400 - 45th Street
Pittsburgh, PA 15201-1198
412/622-4343

May 30, 1997

U. S. Nuclear Regulatory Commission
Licensing Assistant Section
Nuclear Materials Safety Branch
475 Allendale road
King of Prussia, PA 19406-1415

RE: License #37-01072-01

Gentlemen:

We have already moved our nuclear cardiology department from the 5th floor of the north wing to the first floor of the south wing extension.

We have made a close out survey of Room #1, #2 and #3 of the old cardiology department. We surveyed with a GM counter and did wipe tests. The results are shown on the accompanying pages. There is no residual contamination in those areas. We have also removed all the radioactive material signs.

Very truly yours,

Krishnadas Banerjee
Krishnadas Banerjee, Ph.D.

KB:cf
Enclosures

Healing body, mind and spirit
OFFICIAL RECORD COPY ML 10

124652
Reference
close-out survey
JUN - 6 1997
123846

ST. FRANCIS MEDICAL CENTER

Close-out survey of Nuclear Cardiology Room #1 and Room #3

Survey meter: Ludlem 18 Check source reading: 4200 cpm Background reading: 60 cpm

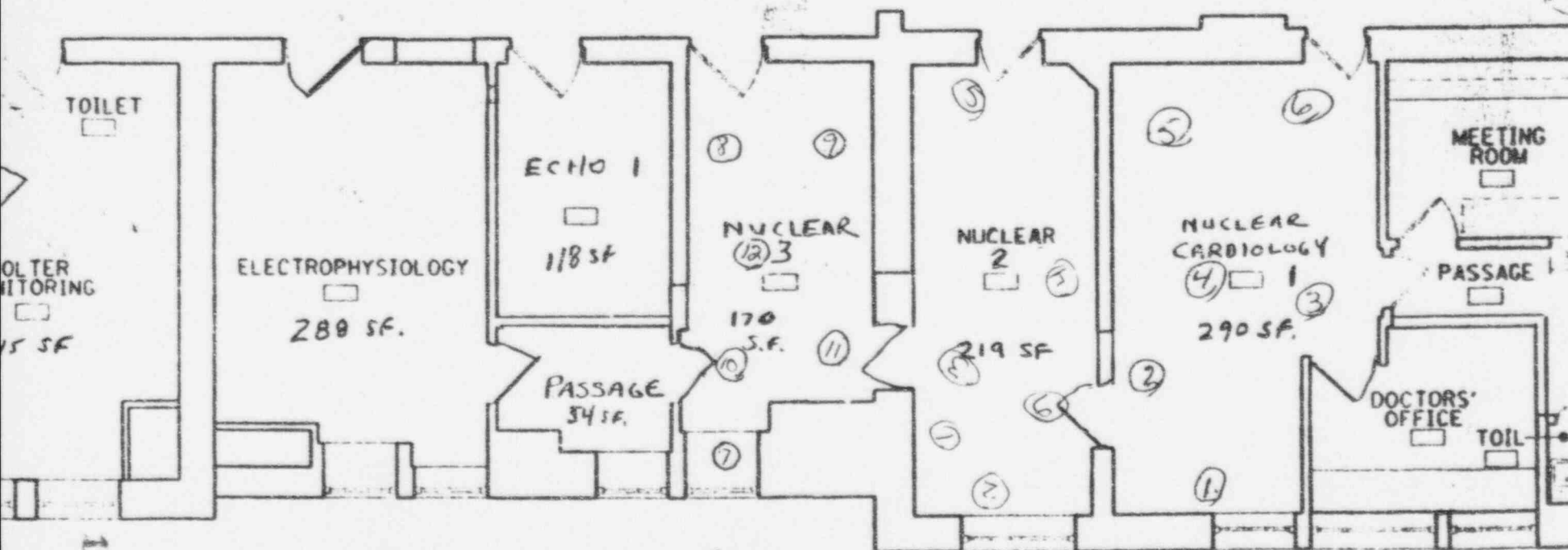
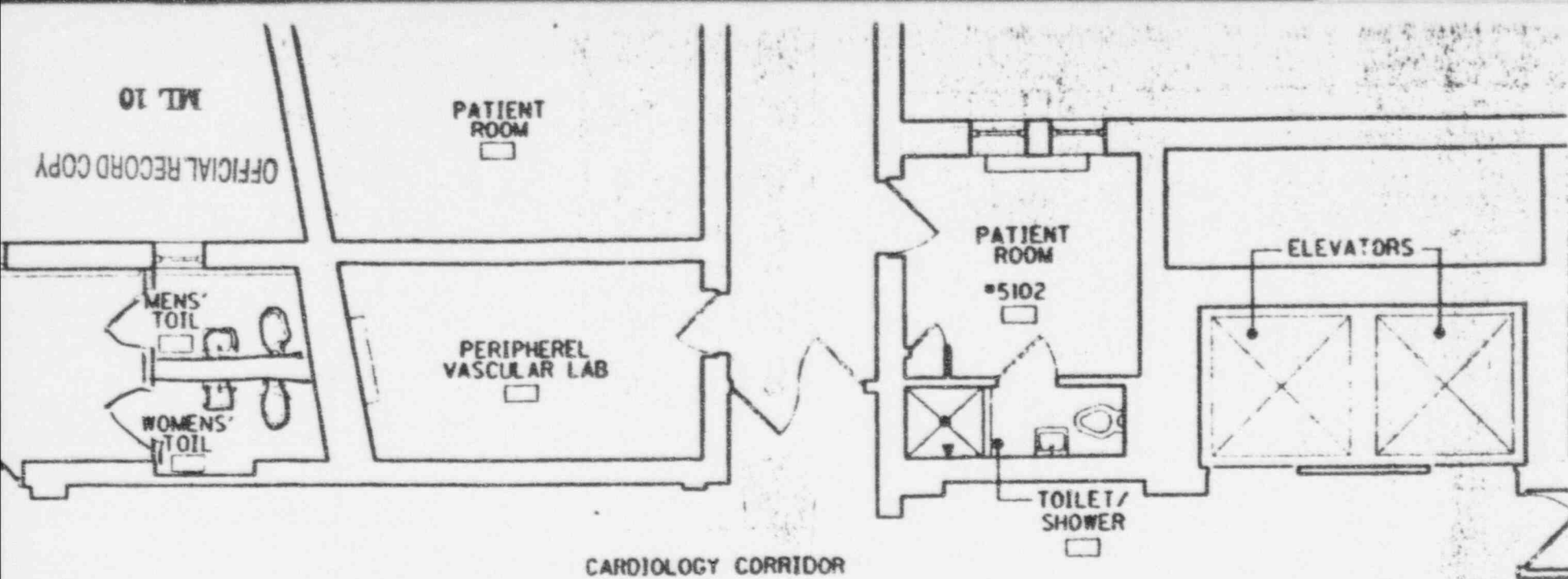
⁵⁷ Co							
Survey Date:		3/21/97		Standard Calibration Date:		12/15/95	
Half Life (Days):		270.7		Standard Activity, 12/15/95 (μCi):		0.10	
λ (day ⁻¹):		0.00256		Activity on 3/21/97 (μCi):		0.0318	
MCA Settings:	Window: 1508 - 1953			Fine Gain: 0.3	Coarse Gain: 300	ADC Gain: 2048	
Background (cpm):	13	Standard (cpm):	51899		MDA (μCi):	6.36e-06	
	11		51954				
Wipe Number	Survey Area Description	Survey Meter Reading (cpm)	Wipe (cpm)		Net Count		Removable Contamination
					(cpm)	(μCi)	
1	Floor (Rm 1)	60	9	14	0	0	< 0.005 μCi
2	Floor (Rm 1)	60	19	15	5	3e-06	< 0.005 μCi
3	Floor (Rm 1)	60	16	14	3	2e-06	< 0.005 μCi
4	Floor (Rm 1)	60	9	12	0	0	< 0.005 μCi
5	Floor (Rm 1)	60	8	14	0	0	< 0.005 μCi
6	Floor (Rm 1)	60	11	13	0	0	< 0.005 μCi
7	Window (Rm 3)	60	20	25	11	6e-06	< 0.005 μCi
8	Floor (Rm 3)	60	22	25	12	7e-06	< 0.005 μCi
9	Floor (Rm 3)	100	19	20	8	5e-06	< 0.005 μCi
10	Floor (Rm 3)	70	19	14	5	3e-06	< 0.005 μCi
11	Floor (Rm 3)	60	21	13	5	3e-06	< 0.005 μCi
12	Floor (Rm 3)	80	12	17	3	2e-06	< 0.005 μCi

ST. FRANCIS MEDICAL CENTER

Close-out survey of Nuclear Cardiology Room #2

Survey meter: Ludlem 18 Check source reading: 4200 cpm Background reading: 60 cpm

⁵⁷ Co							
Survey Date:		5/29/97	Standard Calibration Date:		12/15/95		
Half Life (Days):		270.7	Standard Activity, 12/15/95 (μCi):		0.10		
λ (day ⁻¹):		0.00256	Activity on 5/29/97 (μCi):		0.0266		
MCA Settings:	Window: 1508 - 1953		Fine Gain: 0.3		Coarse Gain: 300		ADC Gain: 2048
Background (cpm):	9	Standard (cpm):	43494		MDA (μCi):	5.80e-06	
	11		43540				
Wipe Number	Survey Area Description	Survey Meter Reading (cpm)	Wipe (cpm)		Net Count		Removable Contamination
					(cpm)	(μCi)	
1	Counter (refrig)	100	13	10	2	9e-07	< 0.005 μCi
2	Floor (decay box)	80	8	7	0	0	< 0.005 μCi
3	Floor	60	7	12	0	0	< 0.005 μCi
4	Floor	60	8	12	0	0	< 0.005 μCi
5	Floor	80	6	9	0	0	< 0.005 μCi
6	Floor	80	16	7	2	9e-07	< 0.005 μCi



ST. FRANCIS MEDICAL CENTER
NUCLEAR CARDIOLOGY DEPT
5th FLOOR, NORTH WING.

SCALE $1/8" = 1'-0"$

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 20555-0001ST. FRANCIS MEDICAL CENTER
ATTN: KRISHNADAS BANERJEE, PH.D.
400 45TH STREET
PITTSBURGH, PA. 15201-1198

TYPE OF ACTION

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

REQUESTED DATE

5-30-97

LICENSE NUMBER

37-01072-01

CONTROL NUMBER

124652

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 \$ 0.00
AMOUNT DUE \$ 440.00

- ☒ Your request was received without the prescribed application fee.
- ☐ We received your Check No. _____ in the amount of \$ _____. 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 1 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 1 of this form.

SIGNATURE -- LICENSE FEE ANALYST

LFDCB

LFDCB

BRENDA BROWN 301-415-6055

BB *BB*
6/16/97

Distribution:

Region I LFAB R/F
Pending OC/DAF R/F
BBrown OC/DAF S/P (LF-3.2.7)

DATE

6-16-97

BETWEEN:

License Fee Management Branch, ARM
and
Regional Licensing Sections

Program Code: 02120
Status Code: 0
Fee Category: 7C
Exp. Date: 20050631
Fee Comments: 7C EFF 8/28/95
Decom Fin Assur Req'd: N

LICENSE FEE TRANSMITTAL

A. REGION

1. APPLICATION ATTACHED

Applicant/Licensee: ST. FRANCIS MEDICAL CENTER
Received Date: 970606
Docket No: 3002976
Control No.: 124652
License No.: 37-01072-01
Action Type: Amendment

2. FEE ATTACHED

Amount: /
Check No.: /

3. COMMENTS

Signed Brown, R. J.
Date 6/10/97

B. LICENSE FEE MANAGEMENT BRANCH (Check when milestone 03 is entered /---/)

1. Fee Category and Amount: 7C

FEE NOT REQUIRED
123840

2. Correct Fee Paid. Application may be processed for:

Amendment _____
Renewal _____
License _____

3. OTHER _____

Signed _____
Date _____

RECEIVED BY LTDCB	
Date	<u>6/19/97</u>
Log	<u>June 8 I 97</u>
By	<u>LR</u>
Date Completed	<u>6/19/97</u>

Also see
123840
NW I (97)

1997 JUN 13 PM 3:43