

MATERIALS LICENSE

Amendment No. 50

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.

302162

Licensee		In accordance with application dated December 17, 1996	
1. Boone Hospital Center		3. License Number 24-01565-01 is amended in its entirety to read as follows:	
2. 1600 East Broadway Columbia, MO 65201		4. Expiration Date May 31, 2005	
		5. Docket or Reference No. 030-02304	
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. 1 curie	
D. Any byproduct material identified in 10 CFR 35.400	D. Any brachytherapy sources identified in 10 CFR 35.400	D. As needed	
E. Any byproduct material identified in 10 CFR 35.500	E. Sealed sources identified in 10 CFR 35.500	E. As needed	
F. Any byproduct material identified in 10 CFR 31.11	F. Prepackaged Kits	F. As needed	
G. Uranium depleted in Uranium-235	G. Cadmium plated metal	G. As needed	

0/1

050055

9702050202 970122
PDR ADDCK 03002304
C PDR

COPY

230
50

MATERIALS LICENSE
SUPPLEMENTARY SHEET

License Number

24-01565-01

Docket or Reference Number

030-02304

Amendment No. 50

- | | | |
|---|--|---|
| 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 |
| H. Cesium-137 | H. Sealed source (Tech. Ops. Model No. 77032) | H. 165 millicuries |
| I. Iridium-192 | I. Sealed sources (Byk Mallinckrodt Model CI LBV) | I. 2 sources, 1 source not to exceed 444 terabecquerels (Tbq) (12 curies (Ci)), and 1 source not to exceed 370 Tbq (10 Ci). |
| J. Gadolinium-153 | J. Sealed sources (North American Scientific, Inc. Model No. 3601) | J. 4 sources, not to exceed 250 millicuries each |

9. Authorized Use:

- A. Medical use described in 10 CFR 35.100.
- B. Medical use described in 10 CFR 35.200.
- C. Medical use described in 10 CFR 35.300.
- D. Medical use described in 10 CFR 35.400.
- E. Medical use described in 10 CFR 35.500 in devices which have been evaluated and approved for licensing purposes by the U.S. Nuclear Regulatory Commission or an Agreement State.
- F. In vitro studies.
- G. Shielding in a linear accelerator and molybdenum-99/technetium-99 generators.
- H. To be used in Amersham/Technical Operations Model 773 instrument calibrator for calibration of the licensee's own survey meters.

COPY

MATERIALS LICENSE
SUPPLEMENTARY SHEET

License Number

24-01565-01

Docket or Reference Number

030-02304

Amendment No. 50

- I. One source to be used in a Nucletron-Oldelft Corporation MicroSelectron HDR remote afterloading brachytherapy device for interstitial, intraluminal, and intracavitary radiotherapy in humans. The source activity may not exceed 370 Tbq (10 Ci) at the time of installation. One source in its shipping container for source replacement.
- J. Two sources to be used in Adac Laboratories Transmission Line Source Housing VANTAGE device for medical radiography in humans. Two sources in shipping containers for replacement of the sources.

CONDITIONS

10. Location of Use: Boone Hospital Center, 1600 East Broadway, Columbia, Missouri.
11. Radiation Safety Officer: Maneesha Prakash, Ph.D.
12. A. 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

- | | |
|-------------------------------|--|
| 1. John Baird, M.D. | 10 CFR 35.100, 35.200, 35.500, 31.11 and gadolinium-153 in VANTAGE device for medical radiography. |
| 2. C. E. Gene Ridenhour, M.D. | 10 CFR 35.300. |
| 3. Hugh Jerry Murrell, M.D. | 10 CFR 35.300, 35.400, 35.500 and iridium-192 in remote afterloading brachytherapy unit. |
| 4. Vijay Sadhu, M.D. | 10 CFR 35.100, 35.200, 35.500, 31.11 and gadolinium-153 in VANTAGE device for medical radiography. |
| 5. Hun Tai Lee, M.D. | 10 CFR 35.100, 35.200, 35.500, 31.11 and gadolinium-153 in VANTAGE device for medical radiography. |
| 6. Charles M. Swaney, M.D. | 10 CFR 35.100, 35.200, 35.500, 31.11 and gadolinium-153 in VANTAGE device for medical radiography and iodine-131 for the treatment of hyperthyroidism. |

COPY

MATERIALS LICENSE
SUPPLEMENTARY SHEET

License Number

24-01565-01

Docket or Reference Number

030-02304

Amendment No. 50

12. (Continued)

Authorized UsersMaterial and Use

7. Rushby Abadir, M.D. 10 CFR 35.300, 35.400, 35.500, 31.11 and iridium-192 in remote afterloading brachytherapy unit.
8. Steven Westgate, M.D. 10 CFR 35.300, 35.400, 35.500 and iridium-192 in remote afterloading brachytherapy unit.
9. Murray Boles, M.D. 10 CFR 35.400 and iridium-192 in remote afterloading brachytherapy unit.
10. Barbara Tellerman, M.D. 10 CFR 35.100, 35.200, 35.500, 31.11 and gadolinium-153 in VANTAGE device for medical radiography.
11. Mark Bryer, M.D. 10 CFR 35.400 and iridium-192 in remote afterloading brachytherapy unit.

B. Licensed material in Subitem 6.H. for instrument calibration shall be used by, or under the supervision and in the physical presence of, Robert R. Hurst, Ph.D., or Maneesha Prakash, Ph.D.

C. Brachytherapy Physicist: Maneesha Prakash, Ph.D.

13. A. Sealed sources and detector cells shall be tested for leakage and/or contamination at intervals not to exceed 6 months or at such other intervals as specified by the certificate of registration referred to in 10 CFR 32.210.

B. In the absence of a certificate from a transferor indicating that a leak test has been made within 6 months prior to the transfer, a sealed source or detector cell received from another person shall not be put into use until tested.

C. Sealed sources need not be leak tested if:

(i) they contain only hydrogen-3; or

(ii) they contain only a radioactive gas; or

(iii) the half-life of the isotope is 30 days or less; or

COPY

**MATERIALS LICENSE
SUPPLEMENTARY SHEET**

License Number

24-01565-01

Docket or Reference Number

030-02304

Amendment No. 50

13. (Continued)

(iv) they contain not more than 100 microcuries of beta and/or gamma emitting material or not more than 10 microcuries of alpha emitting material; or

(v) they are not designed to emit alpha particles, are in storage, and are not being used. However, when they are removed from storage for use or transferred to another person, and have not been tested within the required leak test interval, they shall be tested before use or transfer. No sealed source or detector cell shall be stored for a period of more than 10 years without being tested for leakage and/or contamination.

D. The leak test shall be capable of detecting the presence of 0.005 microcurie of radioactive material on the test sample. If the test reveals the presence of 0.005 microcurie or more of removable contamination, a report shall be filed with the U.S. Nuclear Regulatory Commission in accordance with 10 CFR 30.50(b)(2), and the source shall be removed immediately from service and decontaminated, repaired, or disposed of in accordance with Commission regulations. The report shall be filed within 5 days of the date the leak test result is known with the U.S. Nuclear Regulatory Commission, Region III, ATTN: Chief, Nuclear Materials Safety Branch, 801 Warrenville Road, Lisle, Illinois 60532-4351. The report shall specify the source involved, the test results, and corrective action taken.

E. Tests for leakage and/or contamination shall be performed by the licensee or by other persons specifically licensed by the Commission or an Agreement State to perform such services.

14. A. Access to the rooms housing the Nucletron-Oldelft MicroSelectron HDR remote afterloading brachytherapy device shall be controlled by a door at each entrance.

B. The entrance to the irradiation room shall be equipped with an electrical interlock system that will cause the source to return to the shielded position immediately upon opening of the entrance door. The interlock system shall be connected in such a manner that the source cannot be placed in the irradiation position until the entrance door is closed and the source "on-off" control is reset at the control panel.

C. Electrical interlocks on the entrance door to the irradiator room shall be tested for proper operation at least once each day of use.

COPY

**MATERIALS LICENSE
SUPPLEMENTARY SHEET**

License Number

24-01565-01

Docket or Reference Number

030-02304

Amendment No. 50

- D. In the event of malfunction of the door interlock, the irradiation device shall be locked in the "off" position and not used, except as may be necessary for repair or replacement of the interlock system, until the interlock system is shown to be functioning properly.
15. Prior to initiation of a treatment program, and subsequent to each source exchange using the Nucletron Oldelft MicroSelectron-HDR remote afterloading brachytherapy devices, radiation surveys and tests shall be performed in accordance with the following:
- A radiation survey shall be made of:
- (1) The irradiator source housing, with the source in the shielded position. The maximum radiation levels at 100 centimeters from the surface of the main source safe shall not exceed 0.25 milliroentgen per hour.
 - (2) All areas adjacent to the treatment room with the source in the "irradiation" position. The survey shall clearly establish:
 - (a) That radiation levels in restricted areas are not likely to cause personnel exposure in excess of the limits specified in 10 CFR 20.1201.
 - (b) That radiation levels in unrestricted areas do not exceed the limits specified in 10 CFR 20.1301.
16. The following shall be performed only by manufacturer's representatives or persons specifically authorized by the Commission or an Agreement State to perform such services:
- A. Installation and replacement of the sealed sources contained in the Nucletron-Oldelft MicroSelectron-HDR remote afterloading brachytherapy device(s).
 - B. Any maintenance or repair operations on the irradiator involving work on the source head, the source drive unit, or other mechanism that could expose the source, reduce the shielding around the source, or compromise the safety of the unit and result in increased radiation levels.
17. In lieu of 10 CFR 35.404(a), immediately after retracting the source from the patient into its shielded position in the remote afterloading device, a radiation survey shall be made of the patient and the remote afterloading device with a portable radiation detection survey instrument to confirm that the source has been removed from the patient. Records of the survey shall be maintained in lieu of the record required in 10 CFR 35.404(b).

COPY

**MATERIALS LICENSE
SUPPLEMENTARY SHEET**

License Number
24-01565-01

Docket or Reference Number
030-02304

Amendment No. 50

18. In lieu of the source inventory required in 10 CFR 35.406, the licensee shall:
- A. Promptly determine that all sources have returned to the safe, shielded position at the conclusion of each remote afterloading brachytherapy procedure.
 - B. Promptly make a survey of the area of use to confirm that no sources have been misplaced.
 - C. Make a record of the survey including the survey instrument used, dose rate expressed in mrem/hr (μ Sieverts/hr), time, date and name of the individual making the survey.
 - D. Retain the record of the survey in lieu of the record required in 10 CFR 35.406(d).
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 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. Applications dated November 28, 1988, January 24, 1994, August 21, 1995; and
 - B. Letters dated January 15, 1990 (with attachments), April 30, 1990 (with attachments), September 10, 1990, December 17, 1990, May 17, 1993, March 7, 1995, April 6, 1995, and November 21, 1995.

FOR THE U.S. NUCLEAR REGULATORY COMMISSION

Date 1/22/97

By

James Mulloney
Nuclear Materials Licensing Branch, Region III

COPY

BETWEEN:

License Fee Management Branch, ARM
and
Regional Licensing Sections

(FOR LFMS USE)
INFORMATION FROM LTS

Program Code: 02230
Status Code: 0
Fee Category: 7C 2B
Exp. Date: 20050531
Fee Comments: CODE 13 2/21/90
Decom Fin Assur Req'd: N

R4

LICENSE FEE TRANSMITTAL

A. REGION

1. APPLICATION ATTACHED
Applicant/Licensee: BOONE HOSPITAL CENTER
Received Date: 961223
Docket No: 3002304
Control No.: 302162
License No.: 24-01565-01
Action Type: Amendment

2. FEE ATTACHED
Amount: 440
Check No.: 100269

3. COMMENTS

Signed D. Hersey
Date 12-30-96

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

1. Fee Category and Amount: 7C \$440

2. Correct Fee Paid. Application may be processed for:
Amendment ☒
Renewal ☐
License ☐

3. OTHER

Signed SC
Date 1/6/97

JAN 15 1997

Log	<u>Jan 2 III</u>
Remitter	
Check No.	<u>100269</u>
Amount	<u>\$440</u>
Fee Category	<u>7C</u>
Type of Fee	<u>AMP</u>
Date Check Rec'd	<u>1/3/97</u>
Date Completed	<u>1/6/97</u>
By:	<u>SC</u>

1997 JAN -3 AM 9:20

(6-93)
10 CFR 30, 32, 33
34, 35, 36, 39 and 40

ESTIMATED BURDEN PER RESPONSE TO COMPLY WITH THIS INFORMATION COLLECTION REQUEST: 9 HOURS. SUBMITTAL OF THE APPLICATION IS NECESSARY TO DETERMINE THAT THE APPLICANT IS QUALIFIED AND THAT ADEQUATE PROCEDURES EXIST TO PROTECT THE PUBLIC HEALTH AND SAFETY. FORWARD COMMENTS REGARDING BURDEN ESTIMATE TO THE INFORMATION AND RECORDS MANAGEMENT BRANCH (MNBB 7714), U.S. NUCLEAR REGULATORY COMMISSION, WASHINGTON, DC 20555-0001, AND TO THE PAPERWORK REDUCTION PROJECT (5150-0120), OFFICE OF MANAGEMENT AND BUDGET, WASHINGTON, DC 20503.

APPLICATION FOR MATERIAL LICENSE

INSTRUCTIONS: SEE THE APPROPRIATE LICENSE APPLICATION GUIDE FOR DETAILED INSTRUCTIONS FOR COMPLETING APPLICATION. SEND TWO COPIES OF THE ENTIRE COMPLETED APPLICATION TO THE NRC OFFICE SPECIFIED BELOW.

APPLICATION FOR DISTRIBUTION OF EXEMPT PRODUCTS FILE APPLICATIONS WITH:

DIVISION OF INDUSTRIAL AND MEDICAL NUCLEAR SAFETY
OFFICE OF NUCLEAR MATERIALS SAFETY AND SAFEGUARDS
U.S. NUCLEAR REGULATORY COMMISSION
WASHINGTON, DC 20555-0001

ALL OTHER PERSONS FILE APPLICATIONS AS FOLLOWS:

IF YOU ARE LOCATED IN:

CONNECTICUT, DELAWARE, DISTRICT OF COLUMBIA, MAINE, MARYLAND,
MASSACHUSETTS, NEW HAMPSHIRE, NEW JERSEY, NEW YORK, PENNSYLVANIA,
RHODE ISLAND, OR VERMONT, SEND APPLICATIONS TO:

LICENSING ASSISTANT SECTION
NUCLEAR MATERIALS SAFETY BRANCH
U.S. NUCLEAR REGULATORY COMMISSION, REGION I
475 ALLENDALE ROAD
KING OF PRUSSIA, PA 19406-1415

ALABAMA, FLORIDA, GEORGIA, KENTUCKY, MISSISSIPPI, NORTH CAROLINA, PUERTO
RICO, SOUTH CAROLINA, TENNESSEE, VIRGINIA, VIRGIN ISLANDS, OR WEST VIRGINIA,
SEND APPLICATIONS TO:

NUCLEAR MATERIALS LICENSING SECTION
U.S. NUCLEAR REGULATORY COMMISSION, REGION II
101 MARIETTA STREET, NW, SUITE 2900
ATLANTA, GA 30323-0199

IF YOU ARE LOCATED IN:

ILLINOIS, INDIANA, IOWA, MICHIGAN, MINNESOTA, MISSOURI, OHIO, OR WISCONSIN,
SEND APPLICATIONS TO:

NUCLEAR MATERIALS LICENSING SECTION
U.S. NUCLEAR REGULATORY COMMISSION
REGION III
801 WARRENVILLE ROAD
LISLE, IL 60532-4351

ARKANSAS, COLORADO, IDAHO, KANSAS, LOUISIANA, MONTANA, NEBRASKA, NEW
MEXICO, NORTH DAKOTA, OKLAHOMA, SOUTH DAKOTA, TEXAS, UTAH, OR WYOMING,
SEND APPLICATIONS TO:

NUCLEAR MATERIALS LICENSING SECTION
U.S. NUCLEAR REGULATORY COMMISSION, REGION IV
811 RYAN PLAZA DRIVE, SUITE 400
ARLINGTON, TX 75011-8064

ALASKA, ARIZONA, CALIFORNIA, HAWAII, NEVADA, OREGON, WASHINGTON, AND U.S.
TERRITORIES AND POSSESSIONS IN THE PACIFIC, SEND APPLICATIONS TO:

RADIOACTIVE MATERIALS SAFETY BRANCH
U.S. NUCLEAR REGULATORY COMMISSION, REGION V
1450 MARIA LANE
WALNUT CREEK, CA 94596-5368

PERSONS LOCATED IN AGREEMENT STATES SEND APPLICATIONS TO THE U.S. NUCLEAR REGULATORY COMMISSION ONLY IF THEY WISH TO POSSESS AND USE LICENSED MATERIAL IN STATES SUBJECT TO U.S. NUCLEAR REGULATORY COMMISSION JURISDICTIONS.

1. THIS IS AN APPLICATION FOR (Check appropriate item)

- ☐ A. NEW LICENSE
☒ B. AMENDMENT TO LICENSE NUMBER 24-01565-01 and 02
☐ C. RENEWAL OF LICENSE NUMBER _____

2. NAME AND MAILING ADDRESS OF APPLICANT (Include Zip code)

BOONE HOSPITAL CENTER
1600 E. BROADWAY
COLUMBIA, MO 65201

3. ADDRESS(ES) WHERE LICENSED MATERIAL WILL BE USED OR POSSESSED

1600 E. BROADWAY
COLUMBIA
MO 65201

4. NAME OF PERSON TO BE CONTACTED ABOUT THIS APPLICATION

MANEESHA PRARASH

TELEPHONE NUMBER

(573) 815-3349

SUBMIT ITEMS 5 THROUGH 11 ON 8-1/2 X 11" PAPER. THE TYPE AND SCOPE OF INFORMATION TO BE PROVIDED IS DESCRIBED IN THE LICENSE APPLICATION GUIDE.

5. RADIOACTIVE MATERIAL a. Element and mass number; b. chemical and/or physical form; and c. maximum amount which will be possessed at any one time.	6. PURPOSE(S) FOR WHICH LICENSED MATERIAL WILL BE USED.
7. INDIVIDUAL(S) RESPONSIBLE FOR RADIATION SAFETY PROGRAM AND THEIR TRAINING EXPERIENCE.	8. TRAINING FOR INDIVIDUALS WORKING IN OR FREQUENTING RESTRICTED AREAS.
9. FACILITIES AND EQUIPMENT.	10. RADIATION SAFETY PROGRAM.
11. WASTE MANAGEMENT.	12. LICENSEE FEES (See 10 CFR 170 and Section 170.31) FEE CATEGORY <u>7A, 7C</u> AMOUNT <u>\$440 +</u> ENCLOSED <u>\$470</u>
13. CERTIFICATION. (Must be completed by applicant) THE APPLICANT UNDERSTANDS THAT ALL STATEMENTS AND REPRESENTATIONS MADE IN THIS APPLICATION ARE BINDING UPON THE APPLICANT. THE APPLICANT AND ANY OFFICIAL EXECUTING THIS CERTIFICATION ON BEHALF OF THE APPLICANT, NAMED IN ITEM 2, CERTIFY THAT THIS APPLICATION IS PREPARED IN CONFORMITY WITH TITLE 10, CODE OF FEDERAL REGULATIONS, PARTS 30, 32, 33, 34, 35, 36, 39 AND 40, AND THAT ALL INFORMATION CONTAINED HEREIN IS TRUE AND CORRECT TO THE BEST OF THEIR KNOWLEDGE AND BELIEF. WARNING: 18 U.S.C. SECTION 1001 ACT OF JUNE 25, 1948 82 STAT. 749 MAKES IT A CRIMINAL OFFENSE TO MAKE A WILLFULLY FALSE STATEMENT OR REPRESENTATION TO ANY DEPARTMENT OR AGENCY OF THE UNITED STATES AS TO ANY MATTER WITHIN ITS JURISDICTION.	

CERTIFYING OFFICER - TYPE/PRINTED NAME AND TITLE

SIGNATURE

DATE

MICHAEL B. SHIRK, PRESIDENT, CEO

[Signature]

12-17-96

FOR NRC USE ONLY

TYPE OF FEE	FEE LOG	FEE CATEGORY	AMOUNT RECEIVED	CHECK NUMBER	COMMENTS
			\$		
APPROVED BY	DATE			RECEIVED DEC 23 1996 302162 REGION III	

BOONE HOSPITAL CENTER

1600 East Broadway
Columbia, Missouri 65201
Phone: 573/815-8000

BJC HEALTH SYSTEM

December 21 1996

US Nuclear Regulatory Commission
Materials Licensing Section
801 Warrenville Road
Lisle, IL 60532-4351

Dear NRC Reviewer,

We would like to amend our License 24-01565-01 and 02 as following:

24-01565-01

Item 7.

Authorized user Dr. Charles M. Swaney M.D. to be included for the use of I-131 for the treatment of hyperthyroidism. Preceptor statement attached.

Authorized users Harold L. Sanders M.D. and Stephen W. Phillips M.D. deleted.

Radiation Safety Officer to be changed to Maneesha Prakash Ph.D. Preceptor statement and training and experience attached.

Charles Carver to be added as user for Cesium-137 for instrument calibration, and Thomas A. Sullivan to be removed. Charles Carver added as brachytherapy physicist.

24-01565-02

Item 7.

Radiation Safety Officer to be changed to Maneesha Prakash Ph.D. Preceptor statement and training and experience attached.

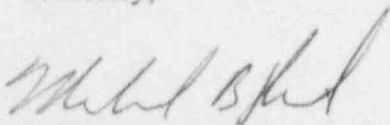
Authorized users Jose M. Sala M.D. and Mary Margaret Davis M.D. to be deleted.

Charles Carver to be added as teletherapy Physicist. Preceptor statement and training and experience attached.

The amendment fees of \$470/- for 24-01565-02, and \$440/- for 24-01565-01 are enclosed.

Thank you for your attention in this matter.

Sincerely,



MICHAEL B. SHIRK
President and Chief Executive Officer

DEC 23 1996

EXHIBIT 2
SUPPLEMENT A

7.1

SUPPLEMENT		U.S. NUCLEAR REGULATORY COMMISSION		
TRAINING AND EXPERIENCE AUTHORIZED USER OR RADIATION SAFETY OFFICER				
1. NAME OF PROPOSED AUTHORIZED USER OR RADIATION SAFETY OFFICER <i>Charles M. Swaney, M.D.</i>		2. FOR PHYSICIANS, STATE OR TERRITORY WHERE LICENSED <i>MO, OK</i>		
3. CERTIFICATION				
SPECIALTY BOARD A	CATEGORY B	MONTH AND YEAR CERTIFIED C		
<i>American Board of Radiology</i>	<i>Diagnostic Radiology</i>	<i>June 1984</i>		
4. TRAINING RECEIVED IN BASIC RADIOISOTOPE HANDLING TECHNIQUES				
FIELD OF TRAINING A	LOCATION AND DATE(S) OF TRAINING B	TYPE AND LENGTH OF TRAINING		
		CLOCK HOURS IN LECTURE OR LABORATORY	CLOCK HOURS OF SUPERVISED ON-THE-JOB EXPERIENCE	
a. RADIATION PHYSICS AND INSTRUMENTATION				
b. RADIATION PROTECTION				
c. MATHEMATICS PERTAINING TO THE USE AND MEASUREMENT OF RADIOACTIVITY				
d. RADIATION BIOLOGY				
e. RADIOPHARMACEUTICAL CHEMISTRY				
5. EXPERIENCE WITH RADIATION. (Actual use of Radioisotopes or Equivalent Experience)				
ISOTOPE	mCi USED AT ONE TIME	LOCATION	CLOCK HOURS	TYPE OF USE

The American Board of Radiology

Organized through the cooperation of the
American College of Radiology, the American Roentgen Ray Society,
the American Radium Society, the Radiological Society of North America,
the Section on Radiology of the American Medical Association
and the American Society of Therapeutic Radiologists
We hereby certify that

Charles Mackey Swaney, M.D.

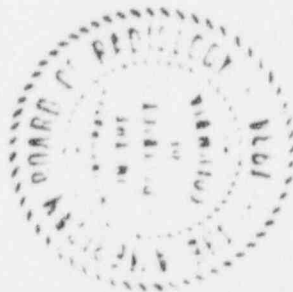
Has pursued an accepted course of graduate study
and clinical work, has met certain standards and qualifications and
has passed the examinations conducted under the authority of

The American Board of Radiology

On this first day of June, 1981

Thereby demonstrating to the satisfaction of the Board
that he is qualified to practice the specialty of

Diagnostic Radiology



James J. Swartz

Frank R. Hildebrand

**EXHIBIT 3
SUPPLEMENT B**

SUPPLEMENT

U. S. NUCLEAR REGULATORY COMMISSION

PRECEPTOR STATEMENT

Supplement B must be completed by the applicant physician's preceptor. If more than one preceptor is necessary to document experience, obtain a separate statement from each.

1. PROPOSED PHYSICIAN USER'S NAME AND ADDRESS

FULL NAME

Charles M. Swaney, M.D.

STREET ADDRESS

1502 E. Broadway Suite 210

CITY

Columbia

STATE

Mo.

ZIP CODE

65201

KEY TO COLUMN C

PERSONAL PARTICIPATION SHOULD CONSIST OF:

- 1-Supervised examination of patients to determine the suitability for radioisotope diagnosis and/or treatment and recommendation for prescribed dosage.
- 2-Collaboration in dose calibration and actual administration of dose to the patient including calculation of the radiation dose, related measurements and plotting of data.
- 3-Adequate period of training to enable physician to manage radioactive patients and follow patients through diagnosis and/or course of treatment.

2. CLINICAL TRAINING AND EXPERIENCE OF ABOVE NAMED PHYSICIAN


ISOTOPE A	CONDITIONS DIAGNOSED OR TREATED B	NUMBER OF CASES INVOLVING PERSONAL PARTICIPATION C	COMMENTS (Additional information or comments may be submitted in duplicate on separate sheets.) D
	Thyroid scan		
	Thyroid uptake		
	Lung perfusion scan		
	Xenon ventilation study		
	Aerosol ventilation scan		
	Renal flow scan		
	Brain scan		
	Liver/spleen scan		
	Bone scan		
	Gastroesophageal study		
	LeVeen shunt study		
	Cystogram		
	Lacrystocystogram		
	Cardiac perfusion scan.		
	Cardiac stress ventriculogram		
	Cardiac rest ventriculogram		
	Gallium scan		

EXHIBIT 3 (Continued)

PROPOSED PHYSICIAN USER

Charles M. Swaney, M.D.

PRECEPTOR STATEMENT (Continued)

2. CLINICAL TRAINING AND EXPERIENCE OF ABOVE NAMED PHYSICIAN (Continued)

ISOTOPE	CONDITIONS DIAGNOSED OR TREATED	NUMBER OF CASES INVOLVING PERSONAL PARTICIPATION	COMMENTS (Additional information or comments may be submitted in duplicate on separate sheets.)
A	B	C	D
P-32 (Sodium)	TREATMENT OF POLYCYTHEMIA VERA, LEUKEMIA, AND BONE METASTASES		
P-32 (Colloid)	INTRACAVITARY TREATMENT		
I-131	TREATMENT OF THYROID CARCINOMA		
	TREATMENT OF HYPERTHYROIDISM	14	
Au-198	INTRACAVITARY TREATMENT		
Co-60 or Co-137	INTERSTITIAL TREATMENT		
	INTRACAVITARY TREATMENT		
I-125 or Ir-192	INTERSTITIAL TREATMENT		
Co-60 or Co-137	TELETHERAPY TREATMENT		
Sr-90	TREATMENT OF EYE DISEASE		
	RADIOPHARMACEUTICAL PREPARATION		
Mo-99/ Tc-99m	GENERATOR		
Sr-113/ In-113m	GENERATOR		
Tc-99m	REAGENT KITS		
Other			

3. DATES AND TOTAL NUMBER OF HOURS RECEIVED IN CLINICAL RADIOISOTOPE TRAINING

LOCATION

DATES

CLOCK HOURS OF EXPERIENCE

See attachment behind

4. THE TRAINING AND EXPERIENCE INDICATED ABOVE WAS OBTAINED UNDER THE SUPERVISION OF:

a. NAME OF SUPERVISOR

Hugh Jerry Murrell, M.D.

b. NAME OF INSTITUTION

Boone Hospital Center

c. MAILING ADDRESS

1600 East Broadway

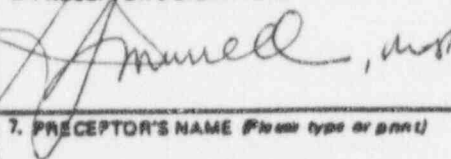
d. CITY

Columbia, Missouri 65201

e. MATERIALS LICENSE NUMBER(S)

24-01565-01

5. PRECEPTOR'S SIGNATURE



7. PRECEPTOR'S NAME (Please type or print)

8. DATE

*131-IODIDE USE UNDER DIRECT SUPERVISION
FOR C. SWANEY, M.D.*

DATE:	SUPERVISING PHYSICIAN:	TYPE OF PROCEDURE:		AMOUNT PRESCRIBED:
10-Jul-95	Dr. MURRELL	THERAPEUTIC	(HYPERTHYROIDISM)	8.50 mCi
03-Aug-95	Dr. MURRELL	THERAPEUTIC	(HYPERTHYROIDISM)	8.00 mCi
03-Aug-95	Dr. MURRELL	THERAPEUTIC	(HYPERTHYROIDISM)	11.00 mCi
21-Dec-95	Dr. MURRELL	THERAPEUTIC	(HYPERTHYROIDISM)	9.00 mCi
28-Dec-95	Dr. MURRELL	THERAPEUTIC	(HYPERTHYROIDISM)	7.00 mCi
29-Dec-95	Dr. MURRELL	THERAPEUTIC	(HYPERTHYROIDISM)	10.00 mCi
19-Feb-96	Dr. MURRELL	THERAPEUTIC	(HYPERTHYROIDISM)	12.00 mCi
23-Jul-96	Dr. MURRELL	THERAPEUTIC	(HYPERTHYROIDISM)	11.00 mCi
27-Aug-96	Dr. MURRELL	THERAPEUTIC	(HYPERTHYROIDISM)	10.00 mCi
09-Oct-96	Dr. MURRELL	THERAPEUTIC	(HYPERTHYROIDISM)	13.00 mCi
01-Nov-96	Dr. MURRELL	THERAPEUTIC	(HYPERTHYROIDISM)	9.00 mCi
13-Nov-96	Dr. MURRELL	THERAPEUTIC	(HYPERTHYROIDISM)	9.00 mCi
19-Nov-96	Dr. MURRELL	THERAPEUTIC	(HYPERTHYROIDISM)	11.00 mCi
09-Dec-96	Dr. MURRELL	THERAPEUTIC	(HYPERTHYROIDISM)	14.00 mCi
		TOTALS	TOTALS	TOTAL mCi
TREATMENT OF :		NEEDED	ACQUIRED	ADMINISTERED
THYROID CARCINOMA		3	0	0.00 mCi
HYPERTHYROIDISM		10	14	142.50 mCi

EXHIBIT 2
SUPPLEMENT A

7-3

SUPPLEMENT		U.S. NUCLEAR REGULATORY COMMISSION		
TRAINING AND EXPERIENCE AUTHORIZED USER OR RADIATION SAFETY OFFICER				
1. NAME OF PROPOSED AUTHORIZED USER OR RADIATION SAFETY OFFICER Maneesha Prakash, Ph.D.		2. FOR PHYSICIANS, STATE OR TERRITORY WHERE LICENSED		
3. CERTIFICATION				
SPECIALTY BOARD A	CATEGORY B	MONTH AND YEAR CERTIFIED C		
4. TRAINING RECEIVED IN BASIC RADIOISOTOPE HANDLING TECHNIQUES				
FIELD OF TRAINING A	LOCATION AND DATE(S) OF TRAINING B	TYPE AND LENGTH OF TRAINING		
		CLOCK HOURS IN LECTURE OR LABORATORY	CLOCK HOURS OF SUPERVISED ON-THE-JOB EXPERIENCE	
a. RADIATION PHYSICS AND INSTRUMENTATION	1975-1986 B.S., M.S. Ph.D in Physics. Northwestern Univ. Evanston, IL 60201	150	1000	
b. RADIATION PROTECTION	1993-MD Anderson Cancer Center High Energy X-ray & Electron Cal. 1994-Rad. Safety Officer Course	20	60	
c. MATHEMATICS PERTAINING TO THE USE AND MEASUREMENT OF RADIOACTIVITY	1975-1986 B.S., M.S., Ph.D. in Physics	50	20	
d. RADIATION BIOLOGY	Univ. of Missouri-Radiation Biology Rad. Safety Officer Course	20	10	
e. RADIOPHARMACEUTICAL CHEMISTRY	Univ. of Missouri - Radiopharmaceutical Chemistry	25	10	
5. EXPERIENCE WITH RADIATION. (Actual use of Radioisotopes or Equivalent Experience)				
ISOTOPE	mCi USED AT ONE TIME	LOCATION	CLOCK HOURS	TYPE OF USE
Co60	7000 Ci	BHC	600 hr	Teletherapy
I-125	35 mCi		100	Implants
Pd 103	35 mCi		100	Implants
Ir 192	10 Ci		50	HDR
Sr 90			50	Therapeutic
Sr 89			50	Therapeutic
CS 137	65 mgRaez		20	Therapeutic

BOONE HOSPITAL CENTER

1600 East Broadway
Columbia, Missouri 65201
Phone: 573/815-8000

BJC HEALTH SYSTEM

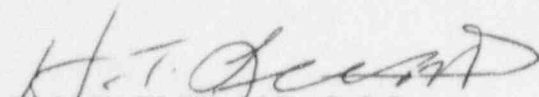
PRECEPTOR STATEMENT OF TRAINING AND EXPERIENCE

December 21 1996

This is to certify that Maneesha Prakash Ph.D. has been employed at Boone Hospital Center as a Medical Physicist since June 1990. She has had more than one year of full time experience as a radiation safety technologist at Boone Hospital Center under the supervision of Dr. Hun TaeLee M.D., RSO, and has participated in all aspects of the Radiation Safety Program at the hospital. She has also recently attended a semester of classes in Radiopharmaceutical Chemistry at the University of Missouri, and her training and experience statement reflects this. Currently she is named on our Licenses as the teletherapy physicist and brachytherapy physicist.

Dr. Prakash is fully qualified for the position of Radiation Safety Officer, and we wish to appoint her to that position per our amendment requests to both of our Licenses.

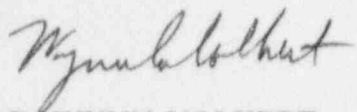
Sincerely,


HUN TAELEE M.D., R.S.O.

2 December 1996

To whom it may concern

This is to verify that Maneesha Prakash (Medical Physicist at Boone Hospital Center, Columbia, MO) has attended a semester of classes in Radiopharmaceutical Chemistry at the University of Missouri during the Fall of 1996. This class corresponds to about 25 hours of classroom training.

A handwritten signature in cursive script, appearing to read "Wynn Volkert".

DR. WYNN VOLKERT
Professor of Radiology at University of Missouri
Columbia MO 65211

**Maneesha Prakash
Radiation Therapy
Boone Hospital Center
Columbia MO 65201**

Telephone: (573)815-3729

E-Mail: MPRAKASH@BJCMail.CARENET.ORG

Education: PhD: August 1986, Northwestern University, Experimental Condensed Matter Physics.
Thesis Title: *Structural and Other Studies of Langmuir-Blodgett Films.*

M.S.: June, 1980 Bombay University, India

B.S.: June, 1978 St. Xaviers College, India

Honors: 1980: 1st prize in physics in Bombay University.

1978: Award for distinction in physics in Bombay University.

Positions: 1990- Medical Physicist-Boone Hospital Center, Columbia, MO

1988-1990: Post-doc./Lecturer at Univ. of Missouri-Columbia with Prof. Meera Chandrasekhar.

1987-1988: Research associate at Oak Ridge National Laboratory.

1981-1986: Graduate student at Northwestern University for the Ph.D. program in Physics supported by various research and teaching assistantships.

Activities: 1980-1990: Member of American Physical Society

1990- Member of American Association of Physicists in Medicine

References: Dr. Robert Hurst: Boone Hospital Center, Columbia, MO 65203

Mr. Thomas Sullivan: Cancer Institute of Maui, Hawaii

Dr. Jerry Murrell: Boone Hospital Center

Dr. Pulak Dutta: Dept. of Physics, Northwestern

Dr. John Ketterson: University, Evanston, IL 60201

Dr. M. Chandrasekhar: Dept. of Physics, Univ. of Missouri, Columbia,
MO 65211

Northwestern University

ON RECOMMENDATION OF THE FACULTY OF THE
GRADUATE SCHOOL
NORTHWESTERN UNIVERSITY HAS CONFERRED THE DEGREE OF
DOCTOR OF PHILOSOPHY

UPON

MANEESHA PRAKASH

WHO HAS HONORABLY FULFILLED ALL THE REQUIREMENTS PRESCRIBED
BY THE UNIVERSITY FOR THAT DEGREE
DONE AT EVANSTON ILLINOIS THIS TWENTY-NINTH DAY OF AUGUST IN THE
YEAR ONE THOUSAND NINE HUNDRED AND EIGHTY-SIX A.D.

Thomas G. Cyers
CHAIRMAN OF THE BOARD OF TRUSTEES

Samuel Reid
SECRETARY OF THE BOARD OF TRUSTEES



Arnold R. Weber
PRESIDENT OF THE UNIVERSITY

Clarence L. Ver Steeg
DEAN



The University of Texas
Health Science Center at San Antonio
7703 Floyd Curl Drive
San Antonio, Texas 78284-7980

Continuing Medical Education

(210) 567-4444
(210) 567-6964 FAX

CERTIFICATE OF ATTENDANCE

Maneesha Prakash Ph.D.
1600 E. Broadway
Columbia, MO 65201

SS #: MP0194
Specialty: Radiation Oncology

Course Title: Radiation Safety Officer's Course #019-4
Date: May 23, 1994 - May 27, 1994
Location: Marriott Courtyard MC

Category 1 AMA Physician's Recognition Award: 36 Hours
Contact Hours: 36 (1 Contact Hour is 60 Mins.)
CEU's: 3.6

This confirms that the individual designated herein has met all the requirements of the above course for awarding of applicable continuing education credit.

A handwritten signature in cursive script, reading "Susan P. Duncan", is written over a horizontal line.

Susan P. Duncan, M.Ed. - Director of CME

BOONE HOSPITAL CENTER

1600 East Broadway
Columbia, Missouri 65201
Phone: 314/875-4545

BJC HEALTH SYSTEM

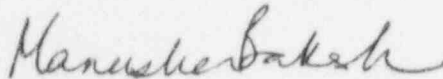
PRECEPTOR STATEMENT OF TRAINING AND EXPERIENCE

December 21 1996

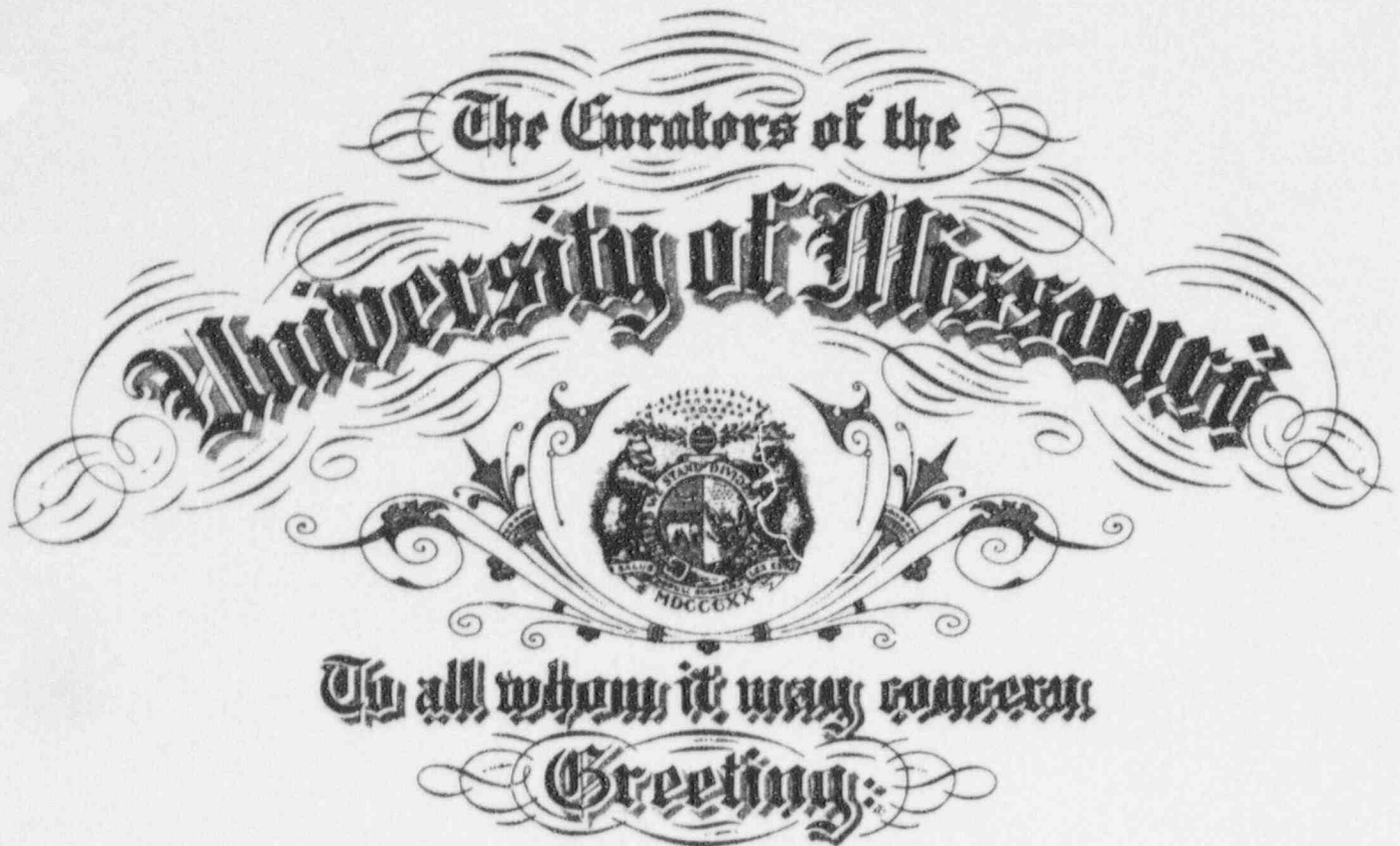
This is to certify that Charles M. Carver M.S. has satisfied the requirements as a qualified teletherapy physicist as specified by the Nuclear Regulatory Commission in 10CFR35.

Specifically Mr. Carver has satisfied those requirements of 35.961, including the tasks listed in 35.51, 35.59, 35.310, 35.315, 35.400, 35.406, 35.410, 35.632, 35.634 and 35.641. Mr. Carver has also fully participated in High Dose Rate Remote Brachytherapy use, safety and surveys. Mr. Carver has completed two years of training and work experience under my supervision, and is qualified to be a teletherapy and brachytherapy physicist.

Sincerely,



MANEESHA PRAKASH Ph.D.
Teletherapy Physicist on 24-01565-02

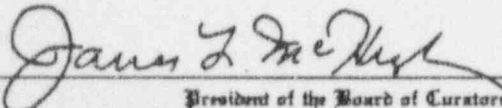


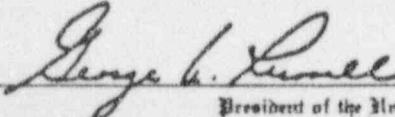
Be it known that the Curators, having been advised by the Faculty that
Charles M. Carver
has completed the Course of Study required of candidates for the degree of
Master of Science
Nuclear Engineering

and is qualified to receive the same, do by these presents confer said degree
with all the honors and privileges appertaining thereto.

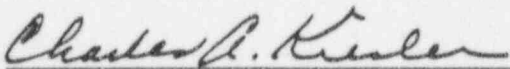
In testimony whereof the signatures of the proper officials and the
seal of the University are affixed.

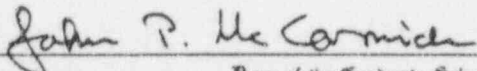
Done at the University in the City of Columbia, State of Missouri,
this eighteenth day of December, in the year of our Lord
one thousand nine hundred and ninety-four.


President of the Board of Curators


President of the University




Chancellor


Dean of the Graduate School

CHARLES M. CARVER
1201 Old 63 South, Apt.103
Columbia, MO 65201
573-875-4482

EDUCATION

University of Missouri, Rolla, MO
Bachelor of Arts in History, December 1987

University of Missouri, Columbia, MO
Master of Science in Nuclear Engineering, emphasis in Medical Physics, December 1994
Thesis title: "Verification of Dynamic Wedge Dosimetry Using Film and Thermoluminescent Dosimeters"

Boone Hospital Center, Columbia, MO
Internship in Radiation Therapy and Medical Physics, May 1993 to July 1994

EMPLOYMENT HISTORY

Boone Hospital Center, Radiation Oncology and Medical Physics, Columbia, MO
July 1996-Present: Supervisor of Radiation Oncology / Medical Physicist
Administrate Department of Radiation Oncology. Duties include scheduling and performance reviews of two physicists, four therapists and two secretaries. Responsible for department budget and capital equipment needs, including filing of appropriate reports and requests. Also implement hospital-wide policies and procedures on departmental level including JCAHO compliance issues. Develop long and short term departmental goals for expansion and improvement of services, including considerations for market forces and CQI. Medical physicist duties as described below.

Boone Hospital Center, Medical Physics and Radiation Oncology, Columbia, MO
July 1994-Present: Medical Physicist
Prepared treatment plans for all radiation therapy procedures including external beam, HDR, brachytherapy and therapeutic use of radioisotopes. Performed daily, weekly, monthly, quarterly and yearly calibrations on Varian 2100C, Siemens Mevatron 74 and MD, AECL Theratron 780 and AECL Eldorado 78 therapy units. Acted as system administrator for Varian RMS-2000 record and verify system. Assisted with hospital radiation safety program including area surveys and wipe tests for brachytherapy sources and radiopharmaceuticals. Performed yearly quality assurance surveys of diagnostic x-ray equipment including CT and mammography units. Performed weekly chart checks and completion summaries for Boone Hospital and two other therapy facilities.

JAN 23 1997

Michael B. Shirk
President and CEO
Boone Hospital Center
1600 East Broadway
Columbia, MO 65201

Dear Mr. Shirk:

Enclosed is Amendment No. 50 to your NRC Material License No. 24-01565-01 and Amendment No. 33 to your NRC Material License No. 24-01565-02 in accordance with your request.

Please note that Charles Carver was not added to your NRC license as a brachytherapy physicist and authorized user of your cesium-137 calibration source for License No. 24-01565-01 or teletherapy physicist for License No. 24-01565-02 at this time. As discussed with Maneesha Prakash on January 13, 1997, Mr. Carver's Masters Degree in Nuclear Engineering is not listed in 10 CFR 35.961(c). 10 CFR 35.961(c) requires, in part, the teletherapy physicist to be an individual who holds a master's or doctor's degree in physics, biophysics, radiological physics, or health physics. The same requirements hold true for brachytherapy physicist. In the interest of expediting your request to add Dr. Prakash to your NRC licensees as Radiation Safety Officer, this action was closed without further review of Mr. Carver's training and experience as agreed to by Dr. Prakash.

If you wish to pursue your request to add Mr. Carver to your NRC licenses as a teletherapy physicist, brachytherapy physicist and authorized user of the cesium-137 sealed source for instrument calibration, you will need to provide another amendment request. Please reference Control Nos. 302162 for License No. 24-01565-01 and 302163 for License No. 24-01565-02 as additional information only and no amendment fee will be required. Also, in addition to the information already provided, please include information on the curriculum of Mr. Carver's Nuclear Engineering degree which shows courses related to radiologic physics and health physics. Please also indicate the number of instrument calibrations performed by Mr. Carver and the name of the authorized user who supervised these calibrations.

We have extended your expiration dates by five years. Please refer to our letters dated May 6, 1996 which discusses the recent regulatory change that grants a one-time five-year extension for certain licenses.

Please note that we have deleted License Condition No. 19 for both licenses which required that you, as the licensee, maintain records of information important to safe and effective decommissioning until the NRC terminates this license. The condition is deleted because the NRC states the same requirement in the regulations under 10 CFR 30.35(g). We advise you that the NRC still requires that you comply with that requirement.

302162

Please review the enclosed document carefully and be sure that you understand all conditions. If there are any errors or questions, please notify the U.S. Nuclear Regulatory Commission, Region III office at (630) 829-9887 so that we can provide appropriate corrections and answers.

Please be advised that your license expires at the end of the day, in the month, and year stated in the license. Unless your license has been terminated, you must conduct your program involving byproduct materials in accordance with the conditions of your NRC license, representations made in your license application, and NRC regulations. In particular, note that you must:

1. Operate in accordance with NRC regulations 10 CFR Part 19, "Notices, Instructions and Reports to Workers; Inspections," 10 CFR Part 20, "Standards for Protection Against Radiation," and other applicable regulations.
2. Notify NRC, in writing, within 30 days:
 - a. When an authorized user or Radiation Safety Officer permanently discontinues performance of duties under the license or has a name change; or
 - b. When the licensee's mailing address changes (no fee is required if the location of byproduct material remains the same).
3. In accordance with 10 CFR 30.36(b) and/or license condition, notify NRC, promptly, in writing, and request termination of the license when you decide to terminate all activities involving materials authorized under the license.
4. Request and obtain a license amendment before you:
 - a. Receive or use byproduct material for a clinical procedure permitted under Part 35 but not permitted by your license issued pursuant to this Part;
 - b. Permit anyone, except individuals described in 10 CFR 35.13(b), to work as an authorized user under the license;
 - c. Change Radiation Safety Officers;
 - d. Order byproduct material in excess of the amount, or radionuclide, or form different than authorized on the license;
 - e. Add or change the areas of use or address or addresses of use identified in the license application or on the license; or

- f. Change ownership of your organization.
5. Submit a complete renewal application with proper fee or termination request at least 30 days before the expiration date of your license. You will receive a reminder notice approximately 90 days before the expiration date. Possession of byproduct material after your license expires is a violation of NRC regulations. A license will not normally be renewed, except on a case-by-case basis, in instances where licensed material has never been possessed or used.

In addition, please note that NRC Form 313 requires the applicant, by his/her signature, to verify that the applicant understands that all statements contained in the application are true and correct to the best of the applicant's knowledge. The signatory for the application should be the licensee or certifying official rather than a consultant.

You will be periodically inspected by NRC. Failure to conduct your program in accordance with NRC regulations, license conditions, and representations made in your license application and supplemental correspondence with NRC will result in enforcement action against you. This could include issuance of a notice of violation, or imposition of a civil penalty, or an order suspending, modifying or revoking your license as specified in the General Policy and Procedures for NRC Enforcement Actions. Since serious consequences to employees and the public can result from failure to comply with NRC requirements, prompt and vigorous enforcement action will be taken when dealing with licensees who do not achieve the necessary meticulous attention to detail and the high standard of compliance which NRC expects of its licensees.

Sincerely,

Original Signed By
James R. Mullauer, M.H.S.
Health Physicist
Nuclear Materials Licensing Branch

License No. 24-01565-01
Docket No. 030-02304

Enclosures:

1. Amendment Nos. 33 and 50
2. Ltr dated 05/06/96

DOCUMENT NAME: M:\03002304.CL7

To receive a copy of this document, indicate in the box: "C" = Copy without attachment/enclosure "E" = Copy with attachment/enclosure "N" = No copy

OFFICE	DNMS/BJH								
NAME	JRMullauer:brt								
DATE	6/22/97								

OFFICIAL RECORD COPY



UNITED STATES
NUCLEAR REGULATORY COMMISSION

REGION III
801 WARRENVILLE ROAD
LISLE, ILLINOIS 60532-4351

December 30, 1996

Maneesha Prakash, Ph.D.
Radiation Safety Officer
Boone Hospital Center
Department of Radiology
1600 East Broadway
Columbia, MO 65201

SUBJECT: ACKNOWLEDGEMENT OF CORRESPONDENCE
(Letter & Application Dated 12/21/96)

Dear Licensee:

In response to your request, we have completed the initial processing, which is an administrative review of your application for a(n):

☐ New License ☒ Amendment ☐ Renewal
☐ Termination ☐ Auth User (Amendment not required)
☐ Other _____

No administrative deficiencies were identified during this initial review. However, it should be noted that a technical review may identify omissions in the submitted information.

It appears that your request is routine (see 1-3 below, as applicable).

1. New and amendment actions are normally processed within 90 days, unless we find major deficiencies, or policy issues requiring central program office assistance.
2. Renewal actions are normally processed within 180 days, however, under timely filing (before expiration), you may continue to operate under your existing license.
3. Termination actions are normally processed within 90 days, unless confirmatory surveys following decontamination/decommissioning activities are involved.

A copy of your correspondence has been forwarded to our Licensing Fee and Debt Collection Branch (301/415-6097) for approval of the fee category and amount, if required.

If you have a compelling safety or business-related reason for requesting expedited review, please contact the Materials Licensing Branch at (630) 829-9887. We will try to complete your request as soon as practicable. Any correspondence about this request should reference the control number.

Nuclear Materials Support Branch

Mail Control Nos. 302162 302163
License Nos. 24-01565-01 24-01565-02