

MATERIALS LICENSE

Amendment No. 14

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 July 1, 1996,	
1. Nuclear Imaging Systems, Inc.		3. License Number 37-28453-01 is amended in its entirety to read as follows:	
2. 900 E. 8th Avenue, Suite 200 King of Prussia, Pennsylvania 19406		4. Expiration Date July 31, 2005	
		5. Docket or Reference No. 030-31395	
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 except generators and gas	B. As needed	
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.			

CONDITIONS

10. A. Licensed material may be stored and possessed, incident to mobile activities, at the licensee's facilities located at 618 Delaware Avenue, Bethlehem, Pennsylvania; 1259 Cedar Crest Boulevard, Suite 200, Allentown, Pennsylvania; 740 South Chester Road, Suite C-1, Swarthmore, Pennsylvania; 506 Thomson Park Drive, Cranberry Township, Pennsylvania; 4A Great Meadow Lane, East Hanover, New Jersey; 5709 South Laburnum Avenue, Richmond, Virginia; 222 Schanck Road, Suite 2C, Freehold, New Jersey, 10 W. Baltimore Pike, Lansdowne, Pennsylvania and 1500 Lindaire Avenue, Mansfield, Ohio;
- B. Licensed material listed in Item 6 may be used at clients' medical care facilities in the states of Pennsylvania, New Jersey, Delaware, Connecticut, Ohio and Virginia.
11. The Radiation Safety Officer for this license is Charles Gentile.



ML 10

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PDR ALOCK 03031395
C PDR

MATERIALS LICENSE
SUPPLEMENTARY SHEET

License Number

37-28453-01

Docket or Reference Number

030-31395

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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:

<u>Authorized Users</u>	<u>Material and Use</u>
Robert C. Farmer, M.D.	35.100; 35.200
Bindukumarc Kansupada, M.D.	35.100; 35.200
James L. Tatum, M.D.	35.100; 35.200
Madhukar Pandya, M.D.	35.200 for cardiovascular clinical procedures
Joel S. Raichlen, M.D.	35.200 for cardiovascular clinical procedures
Suketu Nanavati, M.D.	35.200 for cardiovascular clinical procedures
M. Khalid Malik, M.D.	35.200 for cardiovascular clinical procedures
S. Chivukula, M.D.	35.100; 35.200
Joseph M. Ullman, M.D.	35.200 for cardiovascular clinical procedures
Albert Saul, M.D.	35.200 for cardiovascular clinical procedures
Jeffrey Cooper, M.D.	35.100; 35.200
Bruce Line, M.D.	35.100; 35.200
Brian McCandless, M.D.	35.100; 35.200
Naresh Gupta, M.D.	35.100; 35.200
Karen S. Kutoloski, D.O.	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**

License Number

37-28453-01

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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 enclosure, 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 February 24, 1995
- B. Letter dated May 9, 1995
- C. Letter dated June 6, 1995
- D. Letter dated July 14, 1995
- E. Letter dated August 30, 1995
- F. Letter dated October 27, 1995
- G. Letter dated July 1, 1996
- H. Letter dated September 20, 1996

NOV - 6 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

NOV - 6 1996

Jeffrey Mandler
President/CEO
Nuclear Imaging Systems, Inc.
900 E. 8th Avenue
Suite 200
King of Prussia, PA 19406

Dear Mr. Mandler:

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:
Michelle Beardsley

Michelle R. Beardsley
Division of Nuclear Materials Safety

License No. 37-28453-01
Docket No. 030-31395
Control No. 123556

Enclosure:
Amendment No. 14

DOCUMENT NAME: R:\WPS\MLTR\L3728453.01

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	09/30/96	09/	/96	09/	/96	09/	/96

OFFICIAL RECORD COPY

ML 10

NMSB TELEPHONE CONVERSATION RECORD

DATE OF CALL: 9-27-96

TIME OF CALL: 10⁰⁰ a.m.

PERSON CALLED: Jim Fongheiser (Outgoing Call) PHONE NO. _____

PERSON CALLING: Michelle Beardsley

FACILITY NAME: NIS, Inc.

LICENSE NO.: 37-28453-01/02

DOCKET NO. 030-31395

SUBJECT:

*33417

Dr. Kapadia's qualifications

SUMMARY:

Regarding the information sent in the 9-20-96 letter - preceptor statement for Dr. Kapadia, I explained to Mr. Fongheiser that the 1000 hrs. required by 10CFR35.920 cannot be done concurrently as was stated in his

ACTION REQUIRED/TAKEN:

None

preceptor's letter

SIGNATURE: MB

MAIL CONTROL NO.

123557

123556



Nuclear Imaging Systems

MS-16
J1

September 20, 1996

Michelle Beardsley
USNRC Region I
475 Allendale Road
King of Prussia, PA 19406-1415

Re: License Nos. 37-28453-01/02
Docket Nos. 030-31395/33417
Control Nos. 123556/123557

Dear Ms. Beardsley,

This letter is to provide additional information, as requested, to facilitate the review of the above referenced amendment.

1. a) Supplemental documentation is attached to clarify the training and experience for Shaival Kapadia, M. D.

b) We will pursue adding Habib Bolourchi, M. D. as an authorized user on a future amendment once we have gathered the proper documentation for his credentials.
2. The shielding to be used in the Mansfield site will include:
 - 8-12 lead bricks for storing small sources in a "cave" arrangement
 - A lead lined box for "decay-in-storage" of bagged residual waste material.
 - Individual shields as supplied by manufacturer of Quality Control sealed sources.
 - A leaded glass "L" block
 - Shielded sharps container
 - Small shielded trash can
 - Syringe shields
 - Shielded syringe carrier
3. No imaging procedures will be performed at the Mansfield site. Use of radioactive material will be in support of our mobile cardiac nuclear imaging service such as:
 - Receipt of radiopharmaceuticals
 - Performance of equipment quality control
4. In addition, please revise the list of authorized users on the -02 license to be the same as on the -01 license. This may have been an oversight from our previous efforts to consolidate licenses. We intended to have only one license. Since there are two, we would prefer the list of users to be the same for simplicity.

123556

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OCT - 1 1996
FAX REC'D 9-27-96



Nuclear Imaging Systems

We hope that the information provided is sufficient to process our application for amendment. If you have any further questions, feel free to contact Jim Fongheiser of my staff at, (610) 768-1555. Thank you for your assistance in this matter.

Sincerely,



Jeffrey Mandler
President/CEO

JM/mlp

c.c. C. Gentile
Attachment: S. Kapadia, M. D.

Rhode Island Hospital*A Lifespan Partner*BROWN UNIVERSITY
SCHOOL OF MEDICINE**Division of Cardiology**593 Eddy Street
Providence, RI 02903Tel 401 444-8041
Fax 401 444-5124

September 23, 1996

Jim Fongheiser
Nuclear Imaging Systems
900 E. 8th Avenue
Suite 200
King of Prussia, PA 194061

Dear Mr. Fongheiser:

Shaival Kapadia, M.D., fulfilled all the time required as specified by the NRC for authorized user and included 500 hours of supervised work experience in ordering, receiving radioactive materials safely, calibrating instruments, calculating and safely preparing dosages and in addition 500 hours (running concurrently) in supervised clinical experience in examining histories, selecting suitable radiopharmaceuticals. I apologize for the error on the form. The intended meaning was that Dr. Kapadia had performed 500 hours in each of these areas.

Lynne L. Johnson, MD
Director
Nuclear Cardiology
Director
Cardiology Fellowship
Program
Rhode Island Hospital
Professor of Medicine
Brown University
School of Medicine

Sincerely yours,

Lynne L. Johnson, M.D.
Director, Nuclear CardiologyRichard Noto, M.D.
Director, Nuclear Medicine
Rhode Island Hospital

AUG 23 1996

License Nos. 37-28453-01/02
Docket Nos. 030-31395/33417
Control Nos. 123556/123557

Jeffrey Mandler
President/CEO
Nuclear Imaging Systems, Inc.
900 E. 8th Avenue, Suite 200
King of Prussia, PA 19406

Dear Mr. Mandler:

This is in reference to your letter dated July 1, 1996 to amend your byproduct materials licenses. In order to continue our review, we need the following additional information:

1. Regarding your request to add Drs. Kapadia and Bolourchi to your license, the following information is needed:
 - a. The training and experience submitted for Dr. Kapadia documents 500 hours of supervised work/clinical hours, 10 CFR 35.920(b)(2) requires a total of 1000 hours (500 supervised work and 500 supervised clinical hours). If Dr. Kapadia does not have the required hours as indicated, you may submit his credentials at a later date- please advise.
 - b. The training and experience submitted for Dr. Bolourchi does not indicate the number of supervised work and clinical hours on any of the preceptor statements- please submit.
2. Please indicate the shielding used in the Hot Lab area at the Mansfield site for dose preparation and waste storage.
3. Please specify whether there will be any imaging procedures performed at the Mansfield site.

We will continue our review upon receipt of this information. Please reply in duplicate to my attention at the Region I Office and refer to Mail Control No. 123556/123557. If you have any technical questions regarding this deficiency letter, please call me at (610) 337-6942.

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ML 10

J. Mandler
Nuclear Imaging Systems, Inc.

-2-

If we do not receive a reply from you within 30 calendar days from the date of this letter, we shall assume that you do not wish to pursue your application.

Sincerely,

Original Signed By:
Michelle Beardsley

Michelle R. Beardsley
Division of Nuclear Materials Safety

License Nos. 37-28453-01/02
Docket Nos. 030-31395/33417
Control Nos. 123556/123557

DOCUMENT NAME: R:\WPS\DLTR\D3728453.01

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 MB						
DATE	08/23/96	08/	/96	08/	/96	08/	/96

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Nuclear Imaging Systems

July 1, 1996

030-31395/030-33417

Michelle Beardsley
US NRC Region I
475 Allendale Rd.
King of Prussia, PA 19406-1415

Re : Amendment Request for Radioactive Materials License Number : 37-28453-01 / 02.

Dear Ms. Beardsley,

An amendment to the above referenced radioactive materials license is requested in order to:

1. Add an additional location of use at the following address :

1500 Lindaire Ave.
Mansfield, Ohio 44902

This facility will be used as a base station for mobile cardiac nuclear medicine.
A diagram of the facility is attached for your review.

2. Add the following authorized users to the license :

- a) Shaival J. Kapadia, MD
Dr. Kapadia's credentials are attached for your review.
- b) Habib Bolourchi, MD
Dr. Bolourchi's credentials are attached for your review.
- c) Karen Kutoloski, DO
Dr. Kutoloski's credentials are attached for your review.

3. Remove the Union City, NJ location from the license. A copy of the close-out survey is attached for your review. The quality control sources were transferred to our East Hanover, NJ location on the same license.

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AUG 12 1996

123556



Nuclear Imaging Systems

All other aspects of the program will remain the same. I have enclosed a \$440 check for the license amendment fee. If you have any further questions please feel free to contact Jim Fongheiser of my staff at (610) 768-1555.

Sincerely,

A handwritten signature in cursive script that reads "Jeffrey Mandler/um".

Jeffrey Mandler, President / CEO

cc : Charles Gentile, RSO

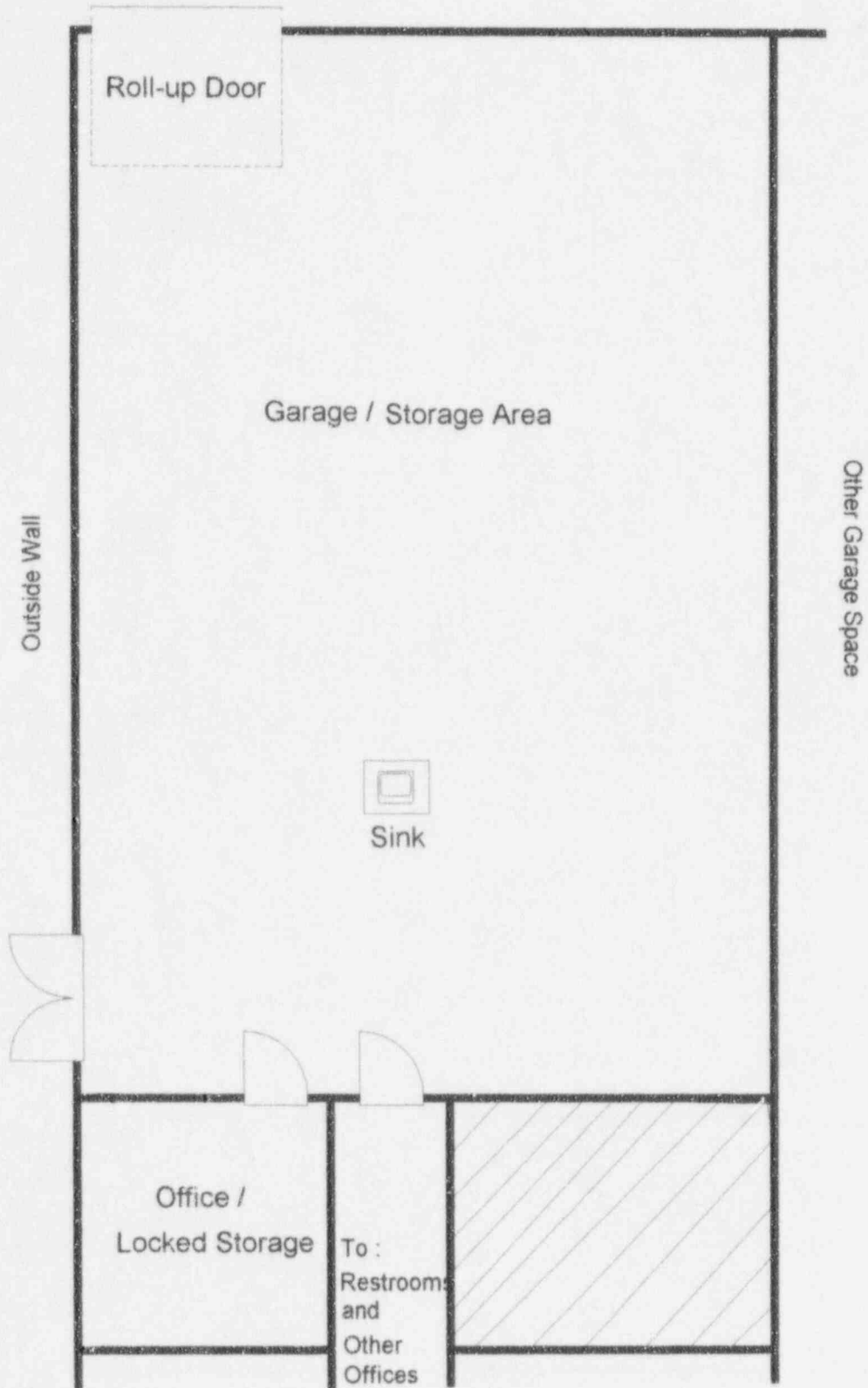
Attachments :

Ohio Facility Diagram,
Credentials for K. Kutoloski

Credentials for S. Kapadia
Union City Close-out

Credentials for H. Bolourchi
\$440 Amendment Fee

Nuclear Imaging Systems, Inc.
1500 Lindare Ave.
Mansfield, Ohio 44902



SHAIVAL J. KAPADIA, M.D.

8711 Brawner Drive
Richmond, VA 23229
(804) 741-7653 (Home)

POST-DOCTORAL TRAINING:

- | | |
|-----------|---|
| 1993-1996 | Brown University / Rhode Island Hospital,
Providence, Rhode Island
Fellow in Cardiology
Skills include diagnostic catheterization, nuclear
cardiology, echocardiography including transesophageal
and stress echo, temporary pacemaker and Swan-Ganz
catheter placement. |
| 1990-1992 | Medical College of Virginia, Richmond, Virginia
Resident in Internal Medicine |
| 1989-1990 | Medical College of Virginia, Richmond, Virginia
Intern in Internal Medicine |

MEDICAL EDUCATION:

- | | |
|----------|--|
| May 1989 | University of Virginia, Charlottesville, VA
Doctor of Medicine.
Alpha Omega Alpha |
|----------|--|

UNDERGRADUATE EDUCATION:

- | | |
|----------|---|
| May 1985 | Johns Hopkins University, Baltimore, MD
Bachelor of Arts (Behavioral Biology) |
|----------|---|

EMPLOYMENT EXPERIENCE:

- | | |
|-----------|---|
| 1994-1996 | Cardiology Foundation, East Providence, Rhode Island
Nuclear stress testing |
| 1994-1995 | Rhode Island Hospital, Providence, Rhode Island
Emergency department physician |
| 1994-1996 | The Atrium, Providence, Rhode Island.
Supervision of stress testing and post MI cardiac
rehabilitation |
| 1992-1993 | Rappahannock General Hospital, Kilmarnock, Virginia
Hospital-based internist |

PRESENTATION:

"Presence of a Partial Coronary Stenosis Does Not Abolish The Protective Effect of Ischemic Preconditioning" abstract presented at the American College of Cardiology Annual Scientific Session in Orlando, Fla 3/26/96

PUBLICATION:

Kapadia, S., Terlato J., Most, A. Presence of a Partial Coronary Stenosis Does Not Abolish The Protective Effect of Ischemic Preconditioning. J Am Coll Cardiol. 1996;27: (Suppl A) 195A (abstract). Manuscript submitted to Circulation.

PROFESSIONAL SOCIETIES:

American College of Physicians, Member
American College of Cardiology, Affiliate
American Society of Nuclear Cardiology

LICENSURE AND CERTIFICATION:

1996	NRC licensure in clinical radioisotope training. Completed prerequisite 200 hours. Competent in cardiac perfusion imaging with thallium-201 and sestamibi-Tc 99m as well as first pass imaging/ gated blood pool scan
1992	Diplomate, American Board of Internal Medicine
1990	Diplomate, National Board of Medical Examiners
1990	Commonwealth of Virginia Medical Licensure (current)
1990	BLS/ACLS certification (current)

PERSONAL DATA:

Date of Birth:	May 14, 1964
Place of Birth:	Richmond, Virginia
Personal Data:	Married (Jill)

REFERENCES: Available on request

Certificate of Participation

THIS IS TO CERTIFY THAT

SHAIVAL KAPADIA, M.D.

successfully completed the course for physicians entitled

Radioisotope Handling Techniques for Nuclear Medicine Procedures

for a total of two hundred hours of lectures,
demonstrations, and related assignments

SUBJECTS COVERED INCLUDE

Radiation Physics & Instrumentation
Radiation Protection
Mathematics Pertaining to the Use and
Measurement of Radioactivity

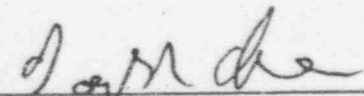
Instrumentation for Radionuclide Imaging
Radiation Biology
Radiopharmaceutical Chemistry

as specified in NRC Part 35

Sponsored by
Medical Physics, Department of Diagnostic Imaging
Rhode Island Hospital



Dates: January 23 - May 1, 1995


Douglas R. Shearer, Ph.D., Course Director

**EXHIBIT 3
SUPPLEMENT B**

SUPPLEMENT		U. S. NUCLEAR REGULATORY COMMISSION	
PRECEPTOR STATEMENT			
<p><i>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.</i></p>			
1. PROPOSED PHYSICIAN USER'S NAME AND ADDRESS <hr/> FULL NAME Shaival J. Kapadia, M.D. <hr/> STREET ADDRESS 8711 Brawner Drive <hr/> CITY STATE ZIP CODE Richmond VA 23229		KEY TO COLUMN C PERSONAL PARTICIPATION SHOULD CONSIST OF: 1-Supervised examination of patients to determine the suitability for radiotope diagnosis and/or treatment and recommendation for prescribed dosage. 2-Collaboration in data 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 <small>A</small>	CONDITIONS DIAGNOSED OR TREATED <small>B</small>	NUMBER OF CASES INVOLVING PERSONAL PARTICIPATION <small>C</small>	COMMENTS <small>(Additional information or comments may be submitted in duplicate on separate sheets.) D</small>
	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		
	LeVein shunt study		
	Cystogram		
	Dacryocystogram		
	Cardiac perfusion scan	800	
	Cardiac stress ventriculogram	10	
Cardiac rest ventriculogram	50		
Gallium scan			

EXHIBIT 3 (Continued)

PROPOSED PHYSICIAN USER			
PRECEPTOR STATEMENT (Continued)			
2. CLINICAL TRAINING AND EXPERIENCE OF ABOVE NAMED PHYSICIAN (Continued)			
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 sheet.) D
P-32 (Sodium)	TREATMENT OF POLYCYTHEMIA VERA, LEUKEMIA, AND BONE METASTASES		
P-32 (Cathodol)	INTRACAVITARY TREATMENT		
I-131	TREATMENT OF THYROID CARCINOMA		
	TREATMENT OF HYPERTHYROIDISM		
Pap-108	INTRACAVITARY TREATMENT		
Co-60 or Co-137	INTERSTITIAL TREATMENT		
	INTRACAVITARY TREATMENT		
I-125 or Ir-192 Co-60 or Co-137	INTERSTITIAL TREATMENT		
	TELETERAPY 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
Rhode Island Hospital		7/1/93-6/30/96	500 hours
4. THE TRAINING AND EXPERIENCE INDICATED ABOVE WAS OBTAINED UNDER THE SUPERVISION OF:		5. PRECEPTOR'S SIGNATURE	
a. NAME OF SUPERVISOR Lynne L. Johnson, M.D.		Richard Noto, M.D.	
b. NAME OF INSTITUTION Rhode Island Hospital			
c. MAILING ADDRESS 593 Eddy Street d. CITY Providence, RI 02903			
e. MATERIALS LICENSE NUMBER(S) 7B-051-01		f. DATE June 19, 1996	

EXHIBIT 3 (Continued)

PRECEPTOR STATEMENT (Continued)			
2. CLINICAL TRAINING AND EXPERIENCE OF ABOVE NAMED PHYSICIAN (Continued)			
ANATOMY	QUESTIONS ASKED/ANSWERS OR TREATED	EXPERIENCE IN (SEE) SPECIALIZED PHYSICIAN PRACTICE	EXPERIENCE IN (SEE) SPECIALIZED PHYSICIAN PRACTICE
1-2	TREATMENT OF HYPERTENSION WITH ALBUTEROL, AND WITH METOPROLOL		
3-4	INTRACAVITARY TREATMENT		
5-6	TREATMENT OF THYROID CARCINOMA		
7-8	TREATMENT OF HYPERTENSION		
9-10	INTRACAVITARY TREATMENT		
11-12	INTRACAVITARY TREATMENT		
13-14	INTRACAVITARY TREATMENT		
15-16	INTRACAVITARY TREATMENT		
17-18	INTRACAVITARY TREATMENT		
19-20	TREATMENT OF GYNECOLOGICAL DISEASE		
21-22	OBSTETRIC/PERINATAL PREPARATION		
23-24	OBSTETRIC		
25-26	OBSTETRIC		
27-28	OBSTETRIC		
29-30	OBSTETRIC		
31-32	OBSTETRIC		
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87-88	OBSTETRIC		
89-90	OBSTETRIC		
91-92	OBSTETRIC		
93-94	OBSTETRIC		
95-96	OBSTETRIC		
97-98	OBSTETRIC		
99-100	OBSTETRIC		

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

LOCATION: Rhode Island Hospital DATES: 7/1/93-6/30/96 CLOCK HOURS OF EXPERIENCE: 500 hours

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

NAME OF SUPERVISOR: Lynne L. Johnson, M.D.

NAME OF SUPERVISOR: Rhode Island Hospital

NAME OF SUPERVISOR: 593 Eddy Street

NAME OF SUPERVISOR: Providence, RI 02903

NAME OF SUPERVISOR: 78-051-01

5. SIGNATURE OF SUPERVISOR: *[Signature]*

NAME OF SUPERVISOR: Richard Note, M.D.

DATE: June 19, 1996

HENLOPEN CARDIOLOGY, P.A.
HABIB BOLOURCHI, M.D., F.A.C.C.

4503 HIGHWAY ONE
REHOBOTH BEACH, DELAWARE 19971



DIPLOMATE:
AMERICAN BOARD OF CARDIOVASCULAR MEDICINE
AMERICAN BOARD OF INTERNAL MEDICINE

(302) 645-7672
FAX: (302) 645-7842

CUPRICULUM VITAE

Date of Birth:	December 31, 1947
Citizenship:	United States of America
Social Security Number:	355-58-4671
Medical School:	Faculty of Medicine, Tehran University Tehran, Iran. 1965-1972
Rotating Internship:	Norweigan American Hospital- Chicago, Illinois. 1974-1975
Internal Medicine Residency :	Siani Hospital of Detroit Detroit, Michigan. 1975-1978
Cardiovascular Fellowship :	Siani Hospital of Detroit Detroit, Michigan. 1978-1980
Chief: Section of Cardiology :	Beebe Medical Center July 1980- 1990
Chairman: Department of Medicine :	Beebe Medical Center July 1990-1994
Vice President: Department of Medicine :	Beebe Medical Center 1980-1990 1994-1996
Medical Director: CCU	Beebe Medical Center 1980-1990
Medical Director: Cardiac Lab	Beebe Medical Center 1980 to Present
ECFMG:	Certification # 163-964-0
Delaware State License :	#1853 as of March 4, 1990
Michigan State License :	#39432 as of September 1, 1977
Certified by American Board of :	Internal Medicine, September 9, 1978. Cardiovascular Medicine, November 29, 1985

Page 2 of 2.

Curriculum Vitae Continued

Research: Chief
Medical Collaborator:

Beebe Medical Center
ISIS-II, ISIS-III and ISIS-IV

Memberships:

Fellow, American College of Cardiology
American College of Physicians
American Society of Internal Medicine
American Medical Association

SINAI HOSPITAL of DETROIT

BLUMBERG PROFESSIONAL OFFICE BUILDING

14800 W. McNICHOLS, DETROIT, MI 48235

SUITE 314

493-6570

Melvin Rubenfire, M.D. P.C.

Cardiology Consultants

Melvin Rubenfire, M.D.

Waldemar J. Wojtczak, M.D.

Nicholas J. Kern, M.D.

October 17, 1979

M. Saberi, M.D. F.A.C.C.
Beebe Clinic
Lewes, Delaware 19958

Dear Dr. Saberi:

I am pleased to be able to recommend Habib Bolourchi to you. As you are aware, Habib has taken his post graduate training in Internal Medicine and Cardiology with us at Sinai Hospital of Detroit. He is a very personable, soft-spoken and humble individual. He has always been well liked by our house staff, nursing staff and attending physicians.

Habib has been a very capable resident and physician. He has been praised very frequently by his patients. He has a good attitude toward patient care and particularly toward the emotional needs of patients. He is complimented by them for his respect, concern and kindness.

Habib has done exceedingly well in his attainment of knowledge of internal medicine. As you are undoubtedly aware, he passed the Internal Medicine Boards without difficulty. His training in cardiology has gradually improved his skills in all areas. He is very capable in critical care cardiology, including the management of power failure, acute and chronic, and arrhythmias. Of course he has no difficulty in the bedside insertion of pacemaker electrodes, Swan Ganz catheters and arterial lines. His judgment has generally been above average for his level of training in the critical care situation. During his two years of training at Sinai in cardiology, Habib will have had a considerable amount of exposure to all phases of the non-invasive laboratory. He has a good understanding of the value and interpretive aspects of echocardiography, phonocardiography, Holter monitoring, stress testing and of course electrocardiography. He has spent several months on nuclear cardiology and if he wishes we will spend more time in that area to develop his skills further. In the Nuclear Cardiology Program (both inpatient and outpatient) he will have been exposed to thallium rest and stress studies, technetium studies, rest and exercise wall motion studies and other special types of isotope procedures including evaluation of shunts. If he wishes, he may become certified in nuclear medicine by taking our nuclear physics course.

Habib has not had extensive experience as of yet in the cardiac catheterization laboratory. If he wishes he may well develop these skills further. At this time he can perform right heart catheterizations and he has had some experience in left catheterizations and coronary angiography, but of a limited variety to date.

-2-

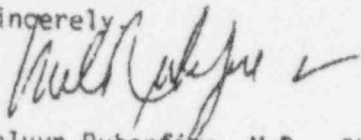
To: M. Saberi, M.D. FACC

Re: Habib Bolourchi, M.D.

Our training program is rather flexible and over the next 6-8 months Habib will decide which direction he will take. I have no hesitation in recommending him to you as a very warm, personable individual who will undoubtedly make a fine clinical cardiologist.

If there is any further information we can give in his regard, please let me know.

Sincerely,



Melvyn Rubenfire, M.D., Chief
Section of Cardiovascular Diseases

MR/j11

SINAI HOSPITAL of DETROIT

767 WEST OUTER DRIVE • DETROIT, MICHIGAN 48205 • 313 / 272-6000

SECTION OF CARDIOVASCULAR DISEASES

Department of Medicine

Melvin Rubinfeld, M.D. Chief

Waldemar J. Waisblick, M.D.

Nicholas Z. Katin, M.D.

October 19, 1979

M. Saberi, M.D., F.A.C.C.
Beebe Clinic
Lewes, Delaware 19958

RE: Habib Bolourchi, M.D.

Dear Doctor Saberi:

Habib asked me to write a letter of recommendation to you. I have known him for a number of years, both as a physician in training here at Sinai Hospital and also socially. After completion of his training in internal medicine, Habib joined us in our program of training in cardiovascular medicine. He is now in his second year of training.

His performance during internal medicine training and knowledge of internal medicine has been very good. He has been liked very well and respected by his peers, teachers and patients. He is a very personable and well liked individual, sensitive to the needs of the patients, very gentlemanly in his behavior. In addition, I enjoyed very much having an opportunity to spend time socially with him and his wife.

At present, Habib is in his second year of training in Cardiology. He is performing very well. Because of the structure of the training program, during the first year he devoted most of his time to patient care, including cardiology service, staff and private consultations and intensive cardiac care including coronary intensive care unit and surgical intensive care unit, where he was taking care of post operative cardiovascular patients. During his training in internal medicine as well as in Cardiology, he became quite proficient and skillful in invasive monitoring methods, including insertion of CVP and pulmonary Swan-Ganz catheters and pacemaker catheters both with and without the use of fluoroscopic guidance. His training program in Cardiology so far included also full rotations through noninvasive laboratories, including holter monitoring, echocardiography, M-mode and 2-dimensional, exercise stress testing, phonocardiography with external pulse recording and systolic time interval calculations, Pacemaker Clinic and most recent rotation through Nuclear Cardiology program which includes thallium and technetium myocardial scanning, isotope angiograms for evaluation of left ventricular function with ejection fraction and wall motion and shunt detection. He is becoming very rapidly quite proficient in this field.

AFFILIATED WITH THE WAYNE STATE UNIVERSITY SCHOOL OF MEDICINE

PAGE 2

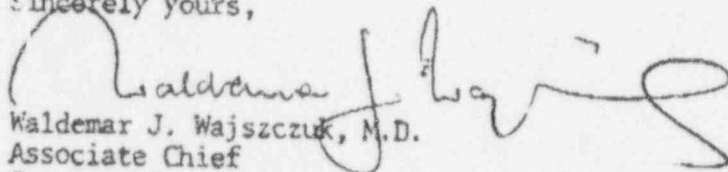
RE: Habib Bolourchi, M.D.
10/19/79

During the previous year, he had a short rotation through the catheterization laboratory where he had an opportunity to become familiar with the techniques of left heart catheterization and coronary arteriography including both brachial Sones and percutaneous Seldinger and Judkins techniques. In the months to come, he will still have at least four or six months rotation through the catheterization laboratory, where he will be able to perfect his techniques of right and left heart catheterization and coronary arteriography. He was quite familiar with the technique of right heart catheterization and of interpretation of hemodynamic measurements including valvular lesions and cardiac shunts, during his previous rotation as well as during his past experiences as a medical resident.

I anticipate that at the end of his 2-year training period with us, he will be a very well trained cardiologist, proficient in invasive methods of cardiac catheterization, including His bundle recording and stimulation studies, as well as in all noninvasive techniques. His current knowledge of bedside clinical cardiology is quite adequate and quite likely above average. His clinical judgment is very good. He reads current literature and makes good clinical use of it. I am sure that he will make an excellent cardiologist and I have no hesitations in recommending him to you for his fine qualities as a physician cardiologist and a friendly, likeable, warm and compassionate and responsible person.

If any additional information will be required, please do not hesitate to let me know.

Sincerely yours,



Waldemar J. Wajszczyk, M.D.
Associate Chief
Section of Cardiovascular Diseases

WJW/lag



Soble Department of
Medicine

Sinai Hospital
6767 West Outer Drive
Detroit, Michigan 48235-2899
313 493-6363

Steven L. Rabinow, M.D.
Chairman

October 12, 1995

To Whom It May Concern:

I am writing this letter on behalf of Habib Bolourchi, M.D. Dr. Bolourchi completed a fellowship in Cardiovascular Diseases from July, 1978 through June, 1980.

At that time the Cardiovascular Fellowship curriculum required a four month rotation in Nuclear Medicine doing on an average of 6-7 procedures per day. Dr. Bolourchi completed these under the supervision of Dr. Robert Baskin, Nuclear Radiologist and Dr. Melvyn Rubenfire, Chief, Cardiovascular Diseases.

If you have any further questions, please do not hesitate to contact me or my Education Coordinator, Betty Corr at (313) 493-5780.

Sincerely,

A handwritten signature in dark ink, appearing to read 'Steven L. Rabinow', followed by a small flourish or mark.

Steven L. Rabinow, M.D.

SLR:eac
g:\resfile\bolourchi.slr



July 24, 1996

Michelle Beardsley
USNRC Region I
475 Allendale Road
King of Prussia, PA 19406

RE: Qualifications for Habib Bolourchi, MD

Dear Ms. Beardsley,

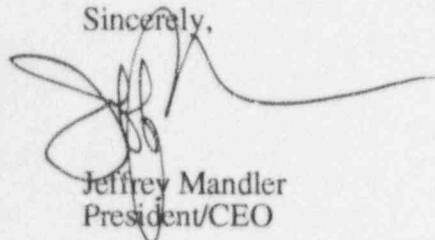
In order to demonstrate recentness of experience for consideration as an authorized user on our NRC Radioactive Materials License, Habib Bolourchi, MD has:

1. Attended courses to accumulate 60.0 credit hours of continuing education credits between October 1995 and March 1996, alone. See attached certificates.
2. Participated in the following studies utilizing Nuclear Imaging Systems, Inc. mobile service (License #37-28453-01) under the supervision of Joel Raichlen, MD, authorized user:

<u>1995</u>		<u>1996</u>	
Rest RNA	50	SPECT	178
Exercise RNA	46	Wall Motion	178
Rest Perfusion	96	Ejection Fraction	178
Exercise Perfusion	96	Rest/Exercise RNA	40
		RNA, rest only	132

If you have any further questions, please feel free to contact me at (610) 768-1555.

Sincerely,



Jeffrey Mandler
President/CEO

JM/mlp

AMERICAN COLLEGE OF CARDIOLOGY



Continuing Medical Education Credit Statement for Registration Records

• Keep this Continuing Medical Education Statement for your records •

This is your official record of attendance. Please save for your records. We also recommend that you save this entire Final Program for your records should information be requested from you. Do not send the form back to ACC. You do not need to provide verification of attendance for each Category 1 CME activity. Reporting is done on an honor basis. Members are responsible for maintaining their own records and should only report compliance after they have accumulated the necessary activities. ACC has not made application to the American Association for Critical-Care Nurses for accreditation. Nurses are encouraged to petition their state nurses' association for personal approval of contact hours for the meeting. Some state associations have mechanisms in place for approving independent activities.

Habib Bolourchi, M.D.

(Name)

registered for the 45th Annual Scientific Session held in Orlando, Florida, March 24-27, 1996.

The American College of Cardiology is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to sponsor continuing education for physicians.

The American College of Cardiology designates this continuing medical education activity for up to 35.5 credit hours in Category 1 of the Physicians Recognition Award of the American Medical Association. One credit may be claimed for each hour of participation by the individual physician.

Marcia J. Jackson, PhD
Associate Executive Vice-President, Education

CATEGORY 1

Sunday, March 24, 1996: Up to 8 credit hours may be claimed.

Mini-Course (3 hours each)	(max. 6.0 hrs.)	<u>3</u>
Key Contributions Session	(max. 2.0 hrs.)	<u>0</u>
Fireside Panel	(max. 1.5 hrs.)	<u>0</u>
Sub Total	(max. 8.0 hrs.)	<u>3</u>

3 (Nac. Cardiology - AdvE Assess.
of Perfusion & Viability)

Monday, March 25, 1996: Up to 8.5 credit hours may be claimed.

Educational Sessions	(max. 8.5 hrs.)	<u>8</u>
----------------------	-----------------	----------

Tuesday, March 26, 1996: Up to 10.5 credit hours may be claimed.

Educational Sessions	(max. 9.0 hrs.)	<u>9</u>
Fireside Panel (me + the expert)	(max. 1.5 hrs.)	<u>1</u>
Sub Total	(max. 10.5 hrs.)	<u>10</u>

(choosing best agent to Assess Post-MI Ischemia)

Wednesday, March 27, 1996: Up to 8.5 credit hours may be claimed.

Educational Sessions	(max. 8.5 hrs.)	<u>2</u>
----------------------	-----------------	----------

ACC'96 TOTAL HOURS CLAIMED CATEGORY 1 (max. 35.5 hrs.)

23

I hereby certify that I attended the sessions listed above and claim the hours indicated.

Signature

Habib Bolourchi, MD

Date

4/24/96

C M E CREDIT RECORD

ACC NUMBER	NON NUMBER	PROGRAM NUMBER
X		881

THE HEART HOUSE
Learning Center
AMERICAN COLLEGE OF CARDIOLOGY
9111 Old Georgetown Road, Bethesda, Md. 20814

PROGRAM DATE
October 19-21, 1995

PROGRAM TITLE
Contemporary Nuclear Cardiology: Entering the 21st Century

Habib Bolourchi, M.D.
4503 Hwy. 1
Rehoboth Beach, DE 19971

NAME
&
ADDRESS

X10

FEE AMOUNT	CREDIT HOURS	TYPE OF CREDIT
\$ 0.00	18.50	ACCME CAT 1

Merrilee Wasshausen

PROGRAM REGISTRAR

ORIGINAL RECEIPT

ACC NUMBER	NON NUMBER	PROGRAM NUMBER
X		881

THE HEART HOUSE
Learning Center
AMERICAN COLLEGE OF CARDIOLOGY
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&
ADDRESS

X10

FEE AMOUNT	CREDIT HOURS	TYPE OF CREDIT
\$ 0.00	18.50	ACCME CAT 1

Merrilee Wasshausen

PROGRAM REGISTRAR

*to
Medical Center of
Bethesda*



American Society of Nuclear Cardiology

9111 Old Georgetown Road Bethesda, Maryland 20814-1699
(301) 493-2360 FAX (301) 493-2376

American Society of Nuclear Cardiology

This Statement is for Enrollee's Records

attended a continuing medical education program entitled
"READ WITH THE EXPERTS"
on March 23, 1996 in ORLANDO, FLORIDA. The American
Society of Nuclear Cardiology is accredited by the Accreditation
Council for Continuing Medical Education to sponsor
continuing medical education for physicians.

The American Society of Nuclear Cardiology designates this
continuing medical education activity for 3.0 hours in Category 1 of
the Physician's Recognition Award of the American Medical
Association.

Robert O. Brown

Chairman, ASNC Continuing Medical Education Committee



American Society of Nuclear Cardiology

9111 Old Georgetown Road Bethesda, Maryland 20814-1699
(301) 493-2360 FAX (301) 493-2376

American Society of Nuclear Cardiology

This Statement is for Enrollee's Records

attended a continuing medical education program entitled
"NUCLEAR CARDIOLOGY AND MANAGED CARE:
FROM CHALLENGE TO OPPORTUNITY"
on March 23, 1996 in ORLANDO, FLORIDA. The American
Society of Nuclear Cardiology is accredited by the Accreditation
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continuing medical education for physicians.

The American Society of Nuclear Cardiology designates this
continuing medical education activity for 3.0 hours in Category 1 of
the Physician's Recognition Award of the American Medical
Association.

Robert O. Brown

Chairman, ASNC Continuing Medical Education Committee

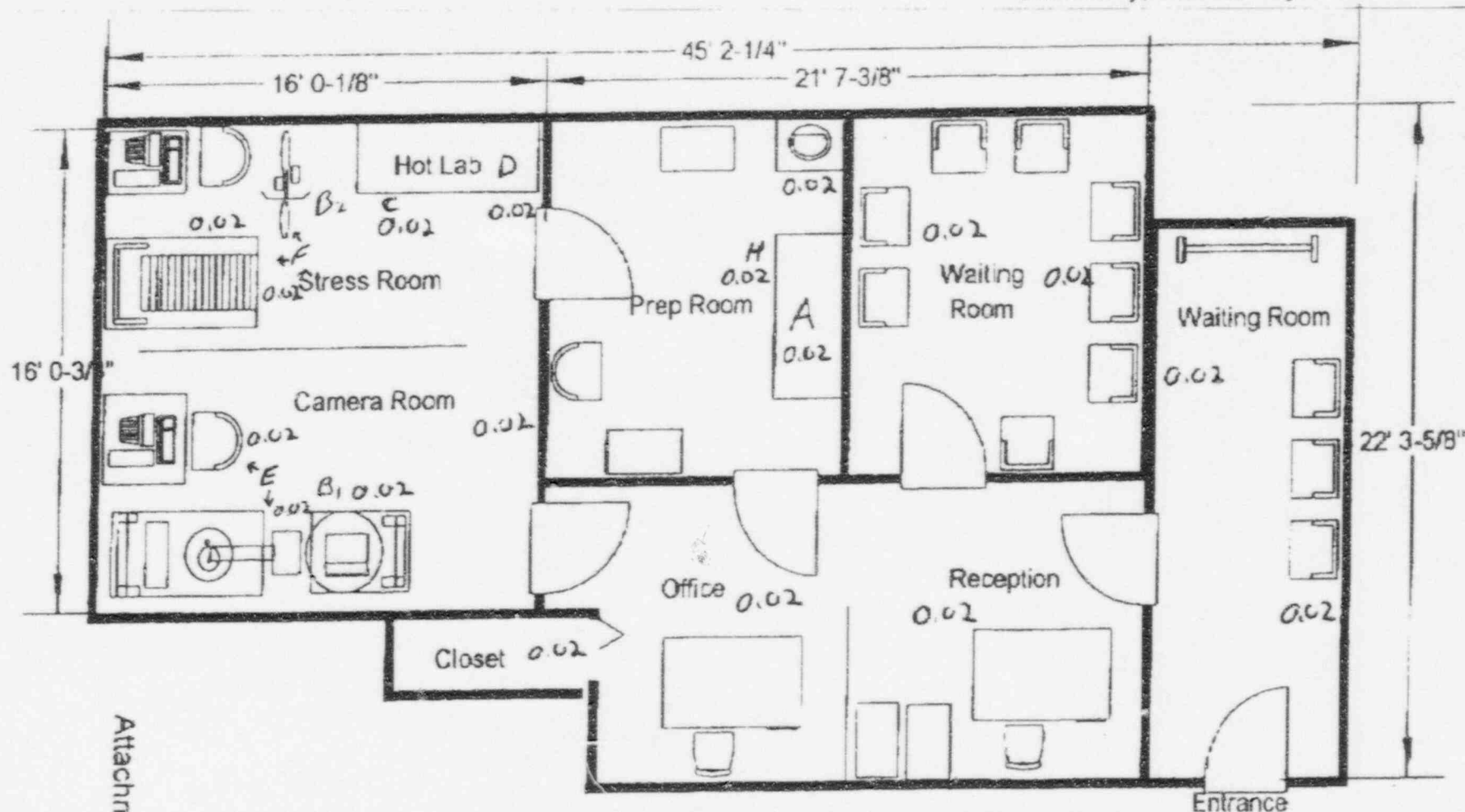
EXIT SURVEY
METER # 89399
WELL 2050 SW 76199

7-3-96

C. Cantile

Union City Cardiac Imaging
4808 Bergenline Ave., Suite 602
Union City, New Jersey 07087

ALL WIPES LESS THAN ACTION LEVEL
RECORD IN BOOK.



Attachment 8A

P02

NIS +++ NISKOP

8104359501

Wee Survey Data

For the Week of: _____

Survey Area	Monday		Tuesday		Wednesday ^{7/3/96}		Thursday		Friday		Saturday	
	mr/hr	dpm	mr/hr	dpm	mr/hr	dpm	mr/hr	dpm	mr/hr	dpm	mr/hr	dpm
Meter No.:					89394							
A. <u>PREP. AREA</u>					0.02	φ						
B ₁ <u>INJECT. AREA</u>					0.02	26						
C. <u>HOT TRASH</u>					0.02	20						
D. <u>DOSE CAL</u>					0.02	23						
E. <u>COMPUTER/CAMERA</u>					0.02	φ						
F. <u>TREADMILL/BIKE</u>					0.02	φ						
G. <u>FLOOR</u>					0.02	6						
H. <u>COLD TRASH</u>					0.02	φ						
B ₂ I. <u>INJECT. AREA</u>					0.02	φ						
J. _____					SEE							
K. _____					EXIT							
L. _____					MAP							
M. <u>Background</u>					0.02	1141						
Surveyor:					PC							
Individual:					SUE	0.02 0.02 0.02						
Individual:					Charlie	0.02 0.02 0.02						

Notify RSO if any survey is:

2.0 mr/hr
0.2 mr/hr
20,000 dpm/100cm²
2,000 dpm/100cm²

 (Restricted Areas)
 (Unrestricted Areas)

Week of Survey Data

For the Week of:

Survey Area	Monday		Tuesday		Wednesday		Thursday		Friday		Saturday	
	mr/hr	dpm	mr/hr	dpm	mr/hr	dpm	mr/hr	dpm	mr/hr	dpm	mr/hr	dpm
Meter No.:												
A. <u>PREP. AREA</u>							0.01	0				
B ₁ <u>INJECT. AREA</u>							0.01	0				
C. <u>HOT TRASH</u>							0.08	12				
D. <u>DOSE CAL.</u>							0.02	0				
E. <u>COMPUTER/CAMERA</u>							0.02	4				
F. <u>TREADMILL/BIKE</u>							0.02	0				
G. <u>FLOOR</u>							0.02	0				
H. <u>COLD TRASH</u>							0.01	0				
B ₂ <u>INJECT. AREA</u>							0.01	0				
J. <u>HANDS</u>							5	R				
K. <u>CLOTHING</u>							0.02	0.01				
L. <u>FEET</u>							0.01	0.02				
M. <u>Background</u>								1270				
							0.02	0.02				
Surveyor:							REC					
Individual:							SUE					
Individual:							RAMON					

* Note: RSO if any survey is:

2.0 mr/hr
0.2 dpm/hr

25,000 dpm/100 cm²
2,000 dpm/100 cm²

(Restricted Areas)
(Unrestricted Areas)

04358501

NIS +++ NISKOP

P01

NUCLEAR MEDICAL EDUCATION PROGRAM

Affidavit of Academic Completion and Competency

This document is to attest that

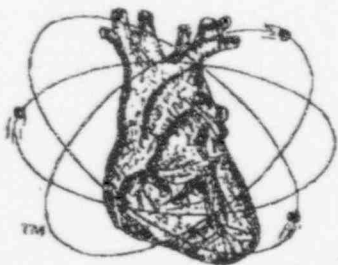
KAREN S. KUTOLOSKI, D.O.

has successfully completed the didactic program

MEDICAL RADIATION INSTRUMENTATION

and has provided evidence of attendance in this program and evidence of achieving the objectives of this program through examination.

This program provides the following levels of accomplishment:



- 50 Didactic Instructional Hours (DIH)
(In compliance with 10CFR35)
- 5 Continuing Education Units (CEU)
- 50 Continuing Medical Education (CME)
- 50 Technical/Professional Credit specified by the
American Pharmaceutical Association and the
American Association of Health Physicists*

*Additional documentation will be provided to Regulatory Agencies upon participant request

8 June 1994

Date Class Commenced

Authorized Signature

190711

Affidavit of Competency

INSTITUTE FOR NUCLEAR MEDICAL EDUCATION

5171 Eldorado Springs Drive, Boulder, CO 80303 800-548-4024

Certified, Approved and Regulated by the Division of Private Occupational Schools, Department of Higher Education in Colorado. Validated by the Accrediting Commission of the Accrediting Council for Continuing Education Training, a national accrediting agency listed by the US Secretary of Education. Validated by the American Council on Education, recognized by the American Association for Collegiate Registrars, Council on Post-Secondary Education

NUCLEAR MEDICAL EDUCATION PROGRAM

Affidavit of Academic Completion and Competency

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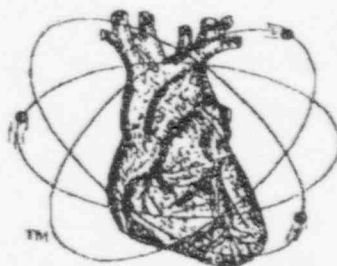
KAREN S. KUTOLOSKI, D.O.

has successfully completed the didactic program

MEDICAL RADIATION PROTECTION

and has provided evidence of attendance in this program and evidence of achieving the objectives of this program through examination.

This program provides the following levels of accomplishment:



- 50 Didactic Instructional Hours (DIH)
(In compliance with 10CFR35)
- 5 Continuing Education Units (CEU)
- 50 Continuing Medical Education (CME)
- 50 Technical/Professional Credit specified by the
American Pharmaceutical Association and the
American Association of Health Physicists*

*Additional documentation will be provided in Regulatory Agencies upon participant request

Clyde E. Peace
Authorized Signature

190544

Affidavit of Competency

11 December 1993
Date Class Commenced

INSTITUTE FOR NUCLEAR MEDICAL EDUCATION

5171 Eldorado Springs Drive, Boulder, CO 80303 800-548-4024

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NUCLEAR MEDICAL EDUCATION PROGRAM

Affidavit of Academic Completion and Competency

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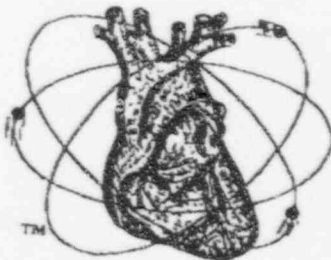
KAREN S. KUTOLOSKI, D.O.

has successfully completed the didactic program

PRINCIPLES OF RADIATION PHYSICS

and has provided evidence of attendance in this program and evidence of achieving the objectives of this program through examination.

This program provides the following levels of accomplishment:



- 50 Didactic Instructional Hours (DIH)
(In compliance with 10CFR35)
- 5 Continuing Education Units (CEU)
- 50 Continuing Medical Education (CME)
- 50 Technical/Professional Credit specified by the
American Pharmaceutical Association and the
American Association of Health Physicists*

*Additional documentation will be provided to Regulatory Agencies upon participant request

4 June 1994

Date Class Commenced

Clyde E. Pearce
Authorized Signature

190793
Affidavit of Competency

INSTITUTE FOR NUCLEAR MEDICAL EDUCATION

5171 Eldorado Springs Drive, Boulder, CO 80303 800-548-4024

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NUCLEAR MEDICAL EDUCATION PROGRAM

Affidavit of Academic Completion and Competency

This document is to attest that

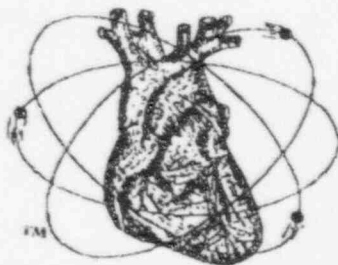
KAREN S. KUTOLOSKI, D.O.

has successfully completed the didactic program

RADIOPHARMACEUTICALS AND CHEMISTRY

and has provided evidence of attendance in this program and evidence of achieving the objectives of this program through examination.

This program provides the following levels of accomplishment:



- 50 Didactic Instructional Hours (DIH)
(In compliance with 10CFR35)
- 5 Continuing Education Units (CEU)
- 50 Continuing Medical Education (CME)
- 50 Technical/Professional Credit specified by the
American Pharmaceutical Association and the
American Association of Health Physicists*

*Additional documentation will be provided to Regulatory Agencies upon participant request

15 December 1993
Date Class Commenced

Clyde E. Pearce
Authorized Signature

190545

Affidavit of Competency

INSTITUTE FOR NUCLEAR MEDICAL EDUCATION

5171 Eldorado Springs Drive, Boulder, CO 80303 800-548-4024

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TRAINING AND EXPERIENCE
AUTHORIZED USER OR RADIATION SAFETY OFFICER

Approved by NRC
3150-0041
Expires 6-30-93

1. NAME OF AUTHORIZED USER OR RADIATION SAFETY OFFICER Karen S. Kutoloski, DO	2. STATE OR TERRITORY IN WHICH LICENSED TO PRACTICE MEDICINE New Jersey, Penna, Ohio, W. Va
--	--

3. CERTIFICATION		
SPECIALTY BOARD A	CATEGORY B	MONTH AND YEAR CERTIFIED C
American Board of Osteopathic Internal Medicine		5/16/92

4. TRAINING RECEIVED IN BASIC RADIOISOTOPE HANDLING TECHNIQUES			
FIELD OF TRAINING A	LOCATION AND DATE(S) OF TRAINING B	TYPE AND LENGTH OF TRAINING	
		LECTURE/ LABORATORY COURSES (Hours) C	SUPERVISED LABORATORY EXPERIENCE (Hours) D
a. RADIATION PHYSICS AND INSTRUMENTATION	Institute for Nuclear Medical Education, Boulder, Colorado	100	40 hours @ Deborah Heart and Lung Center
b. RADIATION PROTECTION	Same as above	30	Browns Mills NJ
c. MATHEMATICS PERTAINING TO THE USE AND MEASUREMENT OF RADIOACTIVITY	Same as above	20	
d. RADIATION BIOLOGY	Same as above	20	
e. RADIOPHARMACEUTICAL CHEMISTRY	Same as above	30	

5. EXPERIENCE WITH RADIATION. (Actual use of Radioisotopes or Equivalent Experience)				
ISOTOPE	MAXIMUM AMOUNT	WHERE EXPERIENCE WAS GAINED	DURATION OF EXPERIENCE	TYPE OF USE
Tl 201	3.5 mCi	Deborah Heart & Lung Center Browns Mills, New Jersey	10/1/93 - 12/31/93 4/1/94 - 6/30/94	Nuclear Cardiology
99mTc	30 mCi	Same as above	Same as Above	Diagnostic Imaging

PRECEPTOR STATEMENT

312B-0331
August 6-30-83

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

1. APPLICANT PHYSICIAN'S NAME AND ADDRESS

FULL NAME

Karen S. Kutoloski, DO

STREET ADDRESS

1292 Ashwood Road

CITY

Akron,

STATE OHIO

Ohio

44312

KEY TO COLUMN C

PERSONAL PARTICIPATION SHOULD CONSIST OF:

1- Supervised participation in patients to determine the ability for radiological diagnosis and/or treatment and participation for procedure design.

2- Collaboration in plan formulation and actual administration of dose to the patient including calculation of the radiation dose, routine measurements and plotting of dose.

3- Supervised series of training to enable physician to manage radiologic procedure 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 conditions may be included in response on separate sheet.) D
I-131 or I-125	DIAGNOSIS OF THYROID FUNCTION		including Thallium 201, 99mTc Pertechnetate, 99mTc Sestamibi and 99mTc Pyrophosphate Rest Gated Blood Pool (MUGA)
	DETERMINATION OF BLOOD AND BLOOD PLASMA VOLUME		
	LIVER FUNCTION STUDIES		
	FAT ABSORPTION STUDIES		
	KIDNEY FUNCTION STUDIES		
	IN VITRO STUDIES		
OTHER			
I-125	DETECTION OF THROMBOSIS		
I-131	THYROID IMAGING		
P-32	EYE TUMOR LOCALIZATION		
Co-57	PANCREAS IMAGING		
Yb-169	OSTEOGRAPHY		
Xe-133	BLOOD FLOW STUDIES AND PULMONARY FUNCTION STUDIES		
OTHER			
Tc-99m	BRAIN IMAGING	500	
	CARDIAC IMAGING		
	THYROID IMAGING		
	SAUVARY GLAND IMAGING		
	BLOOD POOL IMAGING	100	
	PLACENTA LOCALIZATION		
	LIVER AND SPLEEN IMAGING		
	LUNG IMAGING		
	BONE IMAGING		
OTHER			

PRECEPTOR STATEMENT (Continued)

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

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 sheet.) D
P-32 (Sodium)	TREATMENT OF POLYCYTHEMIA VERA, LEUKEMIA, AND BONE METASTASES		
P-32 (Cobalt)	INTRACAVITARY TREATMENT		
I-131	TREATMENT OF THYROID CARCINOMA		
	TREATMENT OF HYPERTHYROIDISM		
Sm-153	INTRACAVITARY TREATMENT		
Co-60 or Cs-137	INTERSTITIAL TREATMENT		
	INTRACAVITARY TREATMENT		
I-125 or Ir-192	INTERSTITIAL TREATMENT		
Co-60 or Cs-137	TELE THERAPY TREATMENT		
Sr-90	TREATMENT OF EYE DISEASE		
	RADIOPHARMACEUTICAL PREPARATION		
Mo-99/ Tc-99m	GENERATOR		
Sn-113/ In-113m	GENERATOR		
Tc-99m	REAGENT KITS		
Other			

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

Clinical Preceptorship in Nuclear Cardiology, Section Of Nuclear Medicine, Dept. of Cardiology, Deborah Heart and Lung Center, Browns Mills, New Jersey

10/1/93 - 12/31/93 and 4/1/94 - 6/30/94 25 weeks X 40 hours per week = 1,000 hours total.

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

a. NAME OF SUPERVISOR

Elizabeth Paczolt, MD

b. NAME OF INSTITUTION

Deborah Heart and Lung Center

c. MAILING ADDRESS

200 Trenton Road

d. CITY

Browns Mills, New Jersey 08015

5. MATERIALS LICENSE NUMBER(S)

NRC 29-18190-01 Deborah Heart & Lung Ctr.

6. PRECEPTOR'S SIGNATURE

Elizabeth Paczolt, MD

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

Elizabeth Paczolt, MD

8. DATE

10/4/94



Deborah
Heart and Lung
Center

Browns Mills, NJ 08015-1799
609/893-6611

Dr. Joseph A. Anslovar
Vice-President, Medical Affairs
Barborton Citizens Hospital
155 5th St., NE
Barborton, Ohio 44203

October 5th, 1994

Dear Dr. Anslovar:

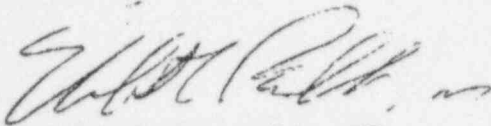
I am very pleased to respond to your inquiry regarding Dr. Karen Kutoloski.

Dr. Kutoloski spent a total of six months in the Section of Nuclear Medicine at Deborah in late 1993 and Spring 1994 completing a fellowship in Nuclear Cardiology. She has participated in over 500 cases, including both Thallium and Technetium Sestamibi Stress Perfusion Imaging, First Pass and Rest Gated Blood Pool (MUGA) Angiography, Persantine Stress Studies and Pyrophosphate Infarct Avid Imaging. Karen also completed the required didactic course training in Nuclear Physics and related topics. She is now an authorized user for radiopharmaceuticals in Nuclear Cardiology, and will submit a copy of her NRC paperwork to you in the near future.

Karen always maintained a professional and warm manner with all of her patients, putting them at ease quickly. Her stress testing and radiopharmaceutical injection skills are excellent and she follows radiation safety guidelines at all times. She worked very well with her colleagues and was a favorite of the entire Nuclear Medicine staff. Her skills in interpreting Nuclear Cardiology studies are exemplary. Our section always gives some humorous awards to the fellows at the end of their rotations, and Karen was voted the "Queen of Persantine" because she had done so many of these studies! She also is an excellent teacher, helping other fellows to learn the basics of Nuclear Cardiology.

I highly recommend Dr. Kutoloski without reservation. She was a great asset to Deborah and will surely be the same for Barberton. Please feel free to contact me at any time if you have any questions. Thank you for allowing me to recommend Dr. Kutoloski.

Sincerely,



Elizabeth Paczolt, MD
Co-Director, Nuclear Medicine
Radiation Safety Officer

BETWEEN:

LICENSE FEE MANAGEMENT BRANCH, ARM
AND
REGIONAL LICENSING SECTIONS

(FOR LFMS USE)
INFORMATION FROM LTS

PROGRAM CODE: 02220
STATUS CODE: 0
FEE CATEGORY: 7C
EXP. DATE: 20050731
FEE COMMENTS: -----
DFCOM FIN ASSUR REQD: N
.....

LICENSE FEE TRANSMITTAL

A. REGION I

1. APPLICATION ATTACHED

APPLICANT/LICENSEE: NUCLEAR IMAGING SYSTEMS, INC.
RECEIVED DATE: 960812
DOCKET NO.: 3031395
CONTROL NO.: 123556
LICENSE NO.: 37-28453-01
ACTION TYPE: AMENDMENT

2. FEE ATTACHED

AMOUNT: \$440.00
CHECK NO.: 4956

3. COMMENTS

REF 123557.

SIGNED
DATE

Lachel Iron
8/12/96

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

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

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

AMENDMENT ☒
RENEWAL ☐
LICENSE ☐

3. OTHER

SIGNED
DATE

Log	Aug 11
Number	
Check No.	4956
Amount	\$440
Category	7C
Control No.	123556
License No.	37-28453-01
Action Type	AMENDMENT
Date	8/18/96
By	BD

(Also see
123557)

07 for 11/5/96

1996 AUG 19 AM 8:28