

**Veterans
Administration**

July 1, 1985

In Reply Refer To:

Ms. Dianne Heim
U. S. Nuclear Regulatory Commission
101 Marietta Street, N.E.
Atlanta, GA 30323

SUBJ: Amendment No. 37 to NRC License #09-04233-03, Docket
No. 030-01345. Expiration date March 31, 1990.

Dear Ms. Heim:

We hereby request that our license be amended in the following manner:

authorized by Amend #37
1. Our previous arrangements with a commercial radiopharmacy are being terminated. Accordingly, we request an increase in the maximum possession limit of item 8. B. from the current value of 2 Curies to a new value of 8 Curies.

not listed material
2. Add Abdul-Hamid Ismail Hakki, M.D. to the list of authorized users for Technetium 99m and Thallium 201 Nuclear Cardiology studies. This addition is made to Section 12 of Page 3 of Amendment No. 36.

3. We request the addition of the following radionuclides on Page 2 of Amendment No. 36:

<u>Isotope</u>	<u>Form</u>	<u>Amount</u>
Zinc 65	Salt	2 mCi
Calcium 45	Salt	2 mCi
Calcium 47	Salt	2 mCi
Magnesium 28	Salt	5 mCi
Copper 64	Salt	2 mCi

not listed

8509250395 850813
REG2 LIC30
09-04233-03 PDR

<u>Isotope</u>	<u>Form</u>	<u>Amount</u>
Copper 67	Salt or Organic Compound	2 mCi
Chromium 51	Salt	2 mCi
Carbon 14	Organic Compound	5 mCi
Iodine 125	Salt or Organic Compound	2 mCi
Iodine 131	Salt or Organic Compound	2 mCi
Cadmium 109	Salt	2 mCi
Nickel 63	Salt	2 mCi
Manganese 54	Salt	1 mCi
Selenium 75	Salt or Organic Compound	1 mCi
Tin 113	Salt	1 mCi
Tritium	Organic Compound Inorganic Compound	5 mCi

*not listed
not raised*

These materials should be added to the list of radionuclides authorized for use by Arthur B. Chausmer, M.D. in paragraph 12 of page 3.

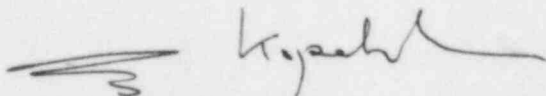
4. Add Levy Kopelovich, Ph.D. to the list of authorized users for in-vitro studies using Hydrogen 3, Carbon 14 and Iodine 125. This addition is made to Section 12 of Page 3 of Amendment No. 36.

Ms. Dianne Heim

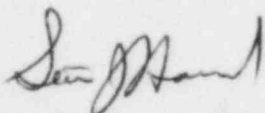
3

Please adjust your records to show Levy Kopelovich, Ph.D. as Radiation Safety Officer for Nuclear Medicine.

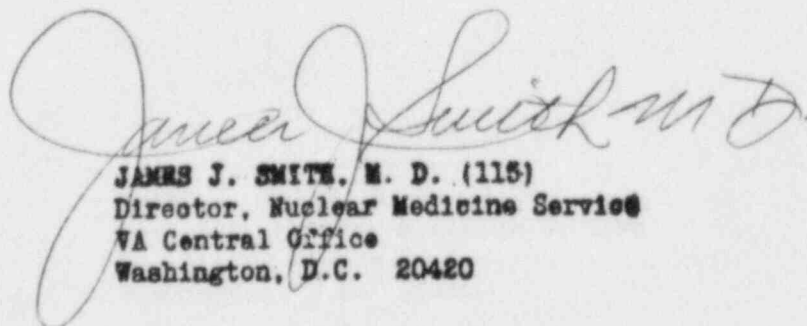
Please call Dr. Harwood at FTS 88-826-4424 if there are any areas which require clarification.



LEVY KOPELEVICH, Ph.D.
Radiation Safety Officer



STEVEN J. HARWOOD, M.D., Ph.D.
Chief, Nuclear Medicine Service



JAMES J. SMITH, M. D. (115)
Director, Nuclear Medicine Service
VA Central Office
Washington, D.C. 20420

NUCLEAR LICENSE INFORMATION

REQUEST FOR AN AMENDMENT

To process a request to be added to an existing by-product materials license, we need the following information:

PHYSICIAN:

1. FULL LEGAL NAME: Abdul-Hamid I. Hakki
2. PRACTICE ADDRESS: VAMC BAY PINES
FLORIDA
3. CITY: BAY PINES STATE: FLORIDA ZIP: 33504
4. STATE OR TERRITORY LICENSED TO PRACTICE MEDICINE:
STATE: Pennsylvania #: MD-021703-E

EXISTING LICENSE: (to which amendment is being sought)

5. NAME OF LICENSEE: VAMC BAY PINES
6. LICENSE ADDRESS: 100 CIRCLE DRIVE
BAY PINES, FLORIDA 33504
7. CITY: BAY PINES STATE: FL. ZIP: 33504
8. DATE OF LICENSE ISSUE: NOVEMBER 2, 1984
9. LICENSE NUMBER: 09-04233-03
10. LAST AMENDMENT #: 36
11. Attach copy(s) of your clinical preceptorship.
12. Attach copy(s) of your Basic Handling Experience.

Please note that any information that you do not have immediately available can be obtained by our staff.

SEND TO: Charles H. Rose
National Institutes
for Professional Education
4880 Riverbend Road
Boulder, CO, 80302



LIKOFF CARDIOVASCULAR INSTITUTE
HAHNEMANN UNIVERSITY
Nuclear Cardiology Laboratories

To Whom It May Concern

Re: A-Hamid Hakki, M.D.

This letter is to document the clinical experience of Dr. Hakki in nuclear cardiology procedures. The experience spans a period of time between January 1980 and May 1985. During this period, Dr. Hakki was first as a trainee in our program and then continued as a staff member attaining the level of Associate Professor responsible for training others in this specialized field. He was involved with obtaining proper history from the patients, conducting physical examination, recommending the appropriate procedure, supervision of patients and technicians during the procedure, interpretation of test results and any necessary followup.

The number of patients who underwent nuclear cardiology studies during this period are 1321 in 1980, 1502 in 1981, 2888 in 1982, 3124 in 1983 and 3223 in 1984. These procedures are: rest thallium-201 scintigraphy, exercise thallium-201 scintigraphy, Tc99m-pyrophosphate myocardial imaging, rest MUGA studies, rest first-pass studies, rest/exercise radionuclide angiographic studies and various intervention studies.

During this period there were a minimum of 3000 exercise thallium-201 studies, 1500 rest/exercise wall motion studies and 5000 rest wall motion studies (radionuclide angiograms).

Dr. Hakki has over 10,000 hours worth of clinical experience, that has resulted among other things in extensive list of publications in the field of nuclear cardiology.

I hope this letter will be of help in your decision.

Sincerely,

A.S. Iskandrian, M.D.
Professor of Medicine
Director, Nuclear Cardiology

ASI/vw

TRAINING IN BASIC RADIOISOTOPE
HANDLING TECHNIQUES

TRAINEE:

A-Hamid Hakki, M.D.

NAME

TITLE

7701 Starkey Road, #409

ADDRESS

Seminole

CITY

FL

STATE

33543

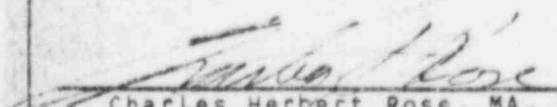
ZIP

COURSE TITLE:	Basic Medical Radiation Physics	LOCATION	Illinois
DATE: COMMENCED	June 21, 1984	COMPLETED	June 3, 1985
COURSE TITLE:	Radiation Physics of Nuclear Medicine	LOCATION	New York
DATE: COMMENCED	August 23, 1984	COMPLETED	June 3, 1985
COURSE TITLE:	Medical Radiation Biology and Radiation Safety	LOCATION	Boulder
DATE: COMMENCED	April 26, 1984	COMPLETED	June 3, 1985
COURSE TITLE:	Medical Radiation Chemistry and Radiopharmaceuticals	LOCATION	Las Vegas
DATE: COMMENCED	May 17, 1984	COMPLETED	June 3, 1985

SUMMARY OF FIELD OF TRAINING HOURS DISTRIBUTION

FIELD OF TRAINING A	LECTURE/LABORATORY (HOURS) C	
a. Radiation Physics and Instrumentation	100	
b. Radiation Protection	30	
c. Mathematics Pertaining to the use and measurement of Radioactivity	20	
d. Radiation Biology	20	
e. Radiopharmaceutical Chemistry	30	VALID ONLY
TOTAL HOURS OF LECTURE/LABORATORY	200 Hours	IF SEALED

AUTHORIZATION: This document is valid for the individual, dates and
hours as stated above and supported by the seal.
If validation, records or other information is required
by the Regulatory Agency, contact the undersigned.


Charles Herbert Rose, MA, MSPH, D(ABSNM)
Telephone (303) 449-4621



MEDICAL EDUCATION PROGRAMS
AFFIDAVIT OF ACADEMIC COMPLETION

This document is to attest that

A-Hamid Hakki, M.D.

has successfully completed the didactic program

MEDICAL RADIATION CHEMISTRY AND RADIOPHARMACEUTICALS

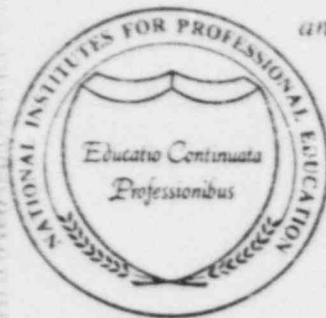
and has provided evidence of accomplishing the objectives of this program.

The program provides the following levels of accomplishment

50 didactic instructional hours (DIH)


5.0 continuing education units (CEU)

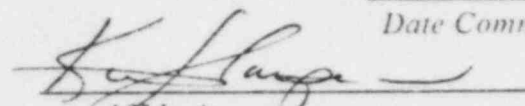
50 continuing medical education units (CME)



May 17, 1984

Date Commenced


Authorized signature


Affidavit

NATIONAL INSTITUTES FOR PROFESSIONAL EDUCATION

MEDICAL EDUCATION PROGRAMS
AFFIDAVIT OF ACADEMIC COMPLETION

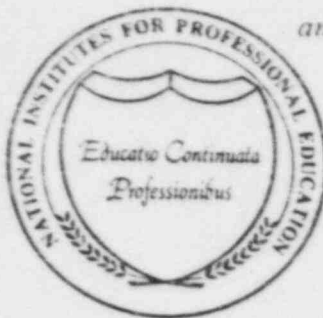
This document is to attest that

A-Hamid Hakki, M.D.

has successfully completed the didactic program

MEDICAL RADIATION BIOLOGY AND RADIATION SAFETY

and has provided evidence of accomplishing the objectives of this program.



The program provides the following levels of accomplishment


50 didactic instructional hours (DIH)


5.0 continuing education units (CEU)

50 continuing medical education units (CME)

April 26, 1984

Date Commenced


Authorized signature


Affidavit

NATIONAL INSTITUTES FOR PROFESSIONAL EDUCATION

MEDICAL EDUCATION PROGRAMS
AFFIDAVIT OF ACADEMIC COMPLETION

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A-Hamid Hakki, M.D.

has successfully completed the didactic program

RADIATION PHYSICS ON NUCLEAR MEDICINE

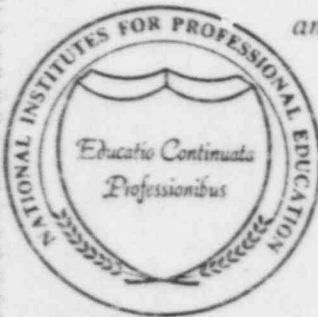
and has provided evidence of accomplishing the objectives of this program.

The program provides the following levels of accomplishment

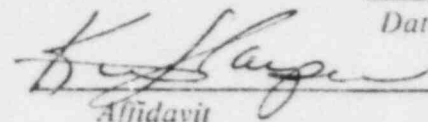
50 didactic instructional hours (DIH)

5.0 continuing education units (CEU)

50 continuing medical education units (CME)




Authorized signature


Affidavit

Aug. 23, 1984
Date Commenced

NATIONAL INSTITUTES FOR PROFESSIONAL EDUCATION

MEDICAL EDUCATION PROGRAMS
AFFIDAVIT OF ACADEMIC COMPLETION

This document is to attest that

A-Hamid Hakki, M.D.

has successfully completed the didactic program

BASIC MEDICAL RADIATION PHYSICS

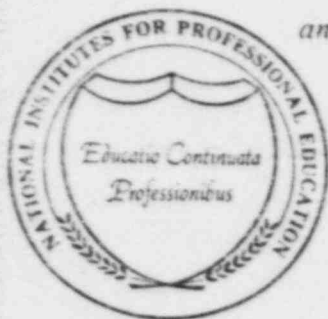
and has provided evidence of accomplishing the objectives of this program

The program provides the following levels of accomplishment

50 didactic instructional hours (DIH)

5.0 continuing education units (CEU)

50 continuing medical education units (CME)



[Signature]
Authorized signature

June 21, 1984

Date Commenced

[Signature]
Affidavit

NATIONAL INSTITUTES FOR PROFESSIONAL EDUCATION

TO Dr. Levy Kopelovich DEPT. 5614 DATE 3/23/82FROM: Dr. John S. Laughlin, Chairman, Committee on RadiationSUBJECT: Application for non-human use of radioactive materials in
Memorial CenterYour application for a ☒ license [] authorization under super-
renewal vision of _____

for the non-human use of the following radioactive materials:

 ^{14}C , ^3H , ^{125}I was approved on 3/23/82 by the Committee on Radiation and is
valid for the period ending 3/23/84, under the added conditions
indicated below.

This license is for non-human use in Memorial Hospital and Sloan-Kettering Institute. The use of radioactive materials under this license is restricted to the individual licensee and individuals under his or her supervision who are identified on this license. Radioactive materials in the Center can be transferred only to another licensee. The transfer of radioactive materials to other institutions or individuals can be made through the Central Isotope Laboratory Service, provided that a copy of a valid New York City, New York State or NRC license is supplied before the actual transfer is made.

Approval is valid only for the radioactive materials listed in the physical and chemical forms in the amounts and for the uses described in your application. Any additions or amendments to these conditions will require a new application to be submitted to the Committee. The applicant is reminded that, if it should be desired to administer to humans any material which has been developed under this license, a separate license for human use must be obtained. Information on licenses for human use or on amendments to non-human use licenses may be obtained from the Radiation Protection Service. (X 7391) You are reminded of the requirement to keep the list of personnel using radioactive materials under your supervision up to date. A memorandum outlining any changes, if they occur, must be sent to the Radiation Protection Service.

Additional Conditions:

DEPARTMENT OF MEDICAL PHYSICS
Memorial Sloan Kettering Cancer Center
NON-HUMAN USE
Questionnaire for Users of Radioactive Materials

This application is to be filled out for all proposed uses of radioactive materials at this Center and by all proposed users. The information specified in this application form is necessary whether the applicant desires a license or desires authorization to use radioactive materials under the supervision of a licensed user.

This application is for: ☐ initial ☒ renewal of ☐ amendment to

- (1) ☒ A license to use radioactive materials as specified.
☐ Authorization to use radioactive materials under supervision of a licensed user.
- (2) Name and title of applicant Levy Kopelovich, Associate member (3) Date 1.26.82
- (4) Room 1011/1018 (5) Dept. or Sect. 5614 MII ☐ (6) Ext. 7095-
 SKI ☒
- (7) Name of person who will supervise the use of the radioactive materials if different from applicant NA
- (8) Radioactive materials to be used:

Radioactive Materials	(9) Maximum Possession Amount	(10) Maximum Single Dosage	(11) Maximum Total Dosage	(12) Estimated Annual Amount	(13) Physical & Chemical Form	(14) Used in Room	(15) Stored in Room
^{14}C	5 mCi			10 mCi	Liquid	1011/1018	1018
^3H	5 mCi			10 mCi	Liquid	1011/1018	1018
^{125}I	5 mCi			20 mCi	Liquid	1011/1018	1018