

# Edgewater Hospital

5700 North Ashland Avenue, Chicago, Illinois 60660-4086 (312) 878-6000

Zelda Mazel Ginter  
Chief Executive Officer

D.C. Calcaterra  
Administrator

R. Riera, M.D.  
Medical Director

May 1, 1985

Mr. George M. McCann  
Materials Licensing Section  
U. S. Nuclear Regulatory Commission  
Region - III  
799 Roosevelt Road  
Glen Ellyn, Illinois 60137

Mail Control No. 78264

Re: License No. 12-02030-03

Dear Mr. McCann:

This is in reply to your letter dated April 8, 1985 concerning our request for Theodore J. Matuga, M.D. to be authorized as a user under our NRC Byproduct Material License No. 12-02030-03.

Attached, we would like to submit for your consideration the following additional information regarding the qualifications of Doctor Matuga as indicated in items 1 through 4 of your letter.

1. Since 1971, Doctor Matuga has attended most of the scientific and professional meetings pertinent to his field of specialty, but more appropriately those of the Radiological Society of North America (RSNA). For example:

During the 69th RSNA Scientific Assembly and Annual Meeting in 1983, Doctor Matuga was awarded 30 credit hours in Category I, out of which 1.5 credit hours were related to "Training in the Handling and Evaluation of Thyroid Diseases Using Radionuclides."

Similarly, during the 9th Annual Nuclear Cardiology Symposium he was awarded 20 credit hours in Category I between September 19-21, 1984.

RECEIVED

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REGION III

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May 1, 1985

1. Continued . . .

Another symposium that Doctor Matuga attended, in this case not only as a participant but also as Moderator of the program, was that on "The Challenge of Nuclear Cardiac Imaging for the Clinician," held in Skokie, Illinois September 12, 1981, and from which Doctor Matuga received 6 credit hours in Category I.

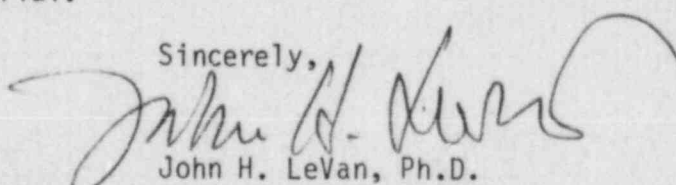
Additional training under this Category is reflected in the last page of his attached Curriculum Vitae.

2. The attached Supplement A of NRC Form-313M reflects Doctor Matuga's training in basic radioisotope handling techniques as described in Section 2.a of Appendix A of Regulatory Guide 10.8.
3. Detailed listing in Item 5 of the same attached NRC Form-313M-Supplement A describes Doctor Matuga's experience in actual handling of radioactive material, which includes a variety of isotopes.
4. Finally, we would like to request that you refer to Form NRC-313M-Supplement B which we previously submitted to your office along with our letter dated February 4, 1985, and which is again attached for your information, describing the total number of hours and the dates during which Doctor Matuga received his training in clinical radioisotope, certified by his Preceptor, Marion F. Magalotti, M.D., as required in Section 2.c of Appendix A of Regulatory Guide 10.8.

We hope that the information submitted with this letter in duplicate will satisfy your requirements, and that you will soon authorize us to add Doctor Matuga as a user of radioisotopes under our NRC License so that we will be able to continue our comprehensive clinical service to our patients in radiation medicine.

Thank you again for your assistance in helping us to maintain a sound and active program in the safe use of radioactive material.

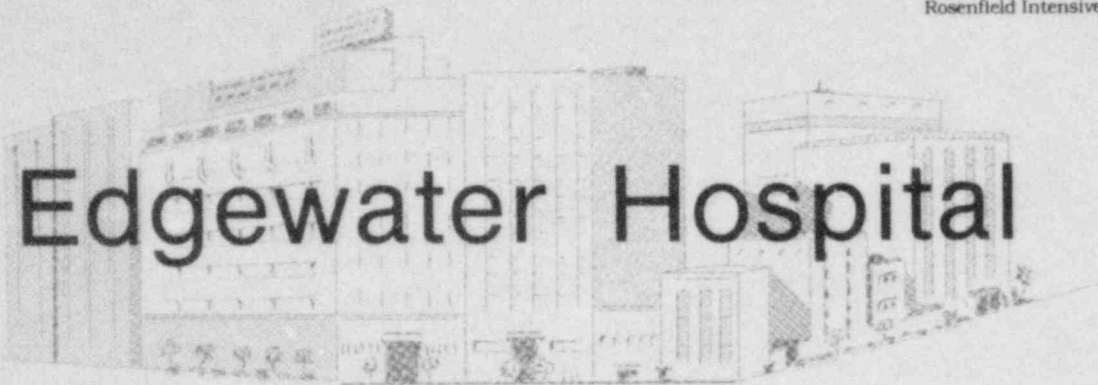
Sincerely,



John H. LeVan, Ph.D.  
Radiation Safety Officer

Attachments: C-V, Theodore J. Matuga, M.D.  
Form NRC-313M Supplement A  
Supplement B

Copies: Hyo H. Byun, M.D., Chairman  
Radiation Safety Committee  
Mr. Donald C. Calcaterra  
Administrator



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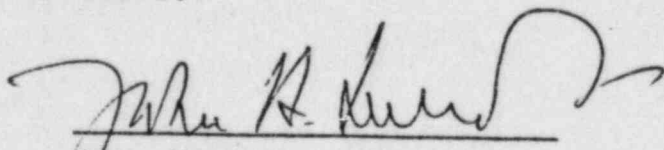
R. Riera, M.D.  
Medical Director

RE: Theodore J. Matuga, M.D. Further Clinical  
Experience in Nuclear Medicine

Additional Statement from the Radiation Safety  
Officer:

In my recent interview with Doctor Theodore J. Matuga, he also has stated that in addition to the experience which was listed in the attached letter under "Item 1" he possesses extensive clinical experience in his position as Staff Radiologist at Condell Memorial Hospital from 1977-1980 and also as a consulting staff in radiology at the Alexian Brothers Hospital in Elk Grove Village, Illinois.

May 1, 1985



John H. LeVan, Ph.D.  
Radiation Safety Officer



THEODORE J. MATUGA, M.D.  
301 Juniper Parkway  
Libertyville, IL 60048  
(312) 367-7611

#### EDUCATION

1964	LOYOLA UNIVERSITY Maywood, Illinois Accelerated pre-medical program
1968	LOYOLA UNIVERSITY, (Stritch School of Medicine) Chicago, Illinois Doctor of Medicine
1969	COOK COUNTY HOSPITAL Chicago, Illinois Internship
1972	COOK COUNTY HOSPITAL Chicago, Illinois Residency - Radiology

#### ADDITIONAL TRAINING

1982	UNIVERSITY OF CHICAGO Chicago, Illinois C.T. and Ultrasound
1982	MALLINKRODT INSTITUTE St. Louis, Missouri Ultrasound
1982	HOSPITAL FOR SPECIAL SURGERY New York City, New York Arthrography Course
1981	THE CHICAGO MEDICAL SCHOOL Chicago, Illinois Nuclear Cardiac Imaging - Moderator
1981	THE CHICAGO MEDICAL SCHOOL Chicago, Illinois Angiography Course - Updated Concepts - Moderator
1980	THE CHICAGO MEDICAL SCHOOL Chicago, Illinois Ultrasound - New Developments - Moderator
1979	JOHNS HOPKINS HOSPITAL Baltimore, Maryland Basic Ultrasound
1978	HARVARD MEDICAL SCHOOL Boston Massachusetts Orthopedic Radiology
1978	ALBERT EINSTEIN COLLEGE New York, New York Nuclear Medicine
1976	UNIVERSITY OF ALABAMA MEDICAL CENTER Birmingham, Alabama Angiography

CERTIFICATION

- \* Diplomate of the American Board of Radiology
- \* Diplomate of the National Board of Medical Examiners

AFFILIATIONS

- \* American Medical Association
- \* Illinois State Medical Society
- \* Lake County Medical Society
- \* American College of Radiology
- \* Radiological Society of North America
- \* Association of University Radiologists

EXPERIENCE

Presently

INDEPENDENT PRACTICE

Diagnostic Radiology at several Chicago-area hospitals.

LAKEWOOD MEDICAL CENTER

Libertyville, Illinois

Radiologist - Multi-specialty medical group with several offices.

UNIVERSITY OF HEALTH SCIENCES/CHICAGO MEDICAL SCHOOL  
North Chicago, Illinois

Assistant Professor

1980 - 1982

NORTH CHICAGO VA MEDICAL CENTER

Staff Radiologist - Performed and/or interpreted many aspects of diagnostic radiology, including nuclear medicine, ultrasound, CT scanning, and special procedures.

1977 - 1980

CONDELL MEMORIAL HOSPITAL

Libertyville, Illinois

Staff Radiologist - Performed many aspects of diagnostic radiology, nuclear medicine, ultrasound, and special procedures.

1975 - 1977

BULL SHOALS COMMUNITY HOSPITAL AND MEDICAL CENTER  
Arkansas

Director of Radiology

- . Developed Radiology Department which included initiation of angiography and breast cancer screening program. Provided and upgraded services to two neighboring hospitals.

1974 - 1975

PRIVATE PRACTICE

Santa Ana, California

Owned - Increased number of patients three-fold within a fourteen month period due to personal attention given to patients and competent assistance to referring physicians.

OTHER  
EXPERIENCE

Consultant for short term positions and locum tenens at institutions such as: Highland Park Hospital, Illinois Masonic Medical Center, St. Joseph Hospital.

## BIBLIOGRAPHY

### SCIENTIFIC REPORTS AND EXHIBITS:

"Architectural Derangement of Femoral Head in Arthropathy". Presented at the Annual Meeting of Radiological Society of North America, Dallas, Texas, 1980.

"Unilateral Thyroid Acropachy". Presented at the Annual Meeting of the Radiological Society of North America, Dallas Texas, 1980.

"Brain Damage and Tardive Dyskenesia". Presented at the Midwestern Pharmacological Meeting, 1981.

"Traumatic and Iatrogenic Cardiovascular Foreign Bodies". Presented at the Annual Meeting of the R.S.N.A., Chicago, 1969 and at the Annual Meeting of the Roentgen Ray Society, Miami, 1970.

"Challenge of Cardiac Tumors". Presented at the R.S.N.A. Chicago, 1969, American Medical Association, Chicago, 1970.

### SCIENTIFIC MEETINGS attended during the past three years:

1983 - Radiological Society of North America 69th Scientific Assembly and Annual Meeting. Chicago, IL.

1982 - RSNA 68th Scientific Assembly and Annual Meeting. Chicago, IL.

1981 - RSNA 67th Scientific Assembly and Annual Meeting. Chicago, IL.

1980 - RSNA 66th Scientific Assembly and Annual Meeting. Dallas, TX.

CONTINUING MEDICAL EDUCATION

- |      |  |                          |
|------|--|--------------------------|
| 1984 | Medical College of Wisconsin<br>Visiting Fellowship<br>CT  | 40 credits Category I    |
| 1983 | RSNA 69th Scientific Assembly and<br>Annual Meeting<br>Courses in Cardiovascular Radiology,<br>CT ultrasound, chest, GI, NTR | 30 credits Category I    |
| 1982 | University of Chicago<br>Visiting Fellowship<br>CT and Ultrasound  | 80 credits Category I    |
| 1982 | Mallinkrodt Institute<br>Visiting Fellowship<br>Ultrasound   | 40 credits Category I    |
| 1982 | Hospital for Special Surgery, New York<br>Visiting Fellowship<br>Arthrography  | 40 credits Category I    |
| 1982 | RSNA 68th Scientific Assembly and<br>Annual Meeting<br>CT - spine and thorax   | 7-1/2 credits Category I |

TRAINING AND EXPERIENCE  
AUTHORIZED USER OR RADIATION SAFETY OFFICER

1. NAME OF AUTHORIZED USER OR RADIATION SAFETY OFFICER

Theodore Matuga, M.D.

2. STATE OR TERRITORY IN  
WHICH LICENSED TO  
PRACTICE MEDICINE  
Illinois

3. CERTIFICATION

SPECIALTY BOARD  
A

CATEGORY  
B

MONTH AND YEAR CERTIFIED  
C

American Board  
of Radiology

Radiology

June 23, 1974

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

Cook County Hospital  
Chicago, Illinois  
June, 1969 - June, 1972

110

50

b. RADIATION PROTECTION

"

40

10

c. MATHEMATICS PERTAINING TO  
THE USE AND MEASUREMENT  
OF RADIOACTIVITY

"

20

5

d. RADIATION BIOLOGY

"

30

0

e. RADIOPHARMACEUTICAL  
CHEMISTRY

"

20

10

5. EXPERIENCE WITH RADIATION. (Actual use of Radioisotopes or Equivalent Experience)

ISOTOPE	MAXIMUM AMOUNT	WHERE EXPERIENCE WAS GAINED	DURATION OF EXPERIENCE	TYPE OF USE
Tc-99m	200 mCi	Cook County Hospital Chicago, Illinois	12 months for all isotopes	Imaging
I-131	100 mCi			Therapy-Imaging
I-125	500 mCi			Imaging-Vitrolab
Cs-137	800 mCi			Brachytherapy
Cs-137	Telecesium			Teletherapy
Co-60	Telecobalt			Teletherapy
Se-75	1 mCi			Imaging
Ga-67	10 mCi			Imaging



## 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. APPLICANT PHYSICIAN'S NAME AND ADDRESS

FULL NAME

Theodore Matuga, M.D.

STREET ADDRESS

32479 Oak Avenue

CITY

Grayslake

STATE

IL

ZIP CODE

60030

## 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
I-131 or I-125	DIAGNOSIS OF THYROID FUNCTION		ALREADY  SUBMITTED  PLEASE SEE  ATTACHED  ORIGINAL FORM
	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		
Se-75	PANCREAS IMAGING		
Yb-169	CISTERNOGRAPHY		
Xe-133	BLOOD FLOW STUDIES AND PULMONARY FUNCTION STUDIES		
OTHER			
Tc-99m	BRAIN IMAGING		
	CARDIAC IMAGING		
	THYROID IMAGING		
	SALIVARY GLAND IMAGING		
	BLOOD POOL IMAGING		
	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 sheets.) D
P-32 (Soluble)	TREATMENT OF POLYCYTHEMIA VERA, LEUKEMIA, AND BONE METASTASES		ALREADY  SUBMITTED  PLEASE SEE  ATTACHED  ORIGINAL FORM
P-32 (Colloidal)	INTRACAVITARY TREATMENT		
I-131	TREATMENT OF THYROID CARCINOMA		
	TREATMENT OF HYPERTHYROIDISM		
Au-198	INTRACAVITARY TREATMENT		
Co-60 or Cs-137	INTERSTITIAL TREATMENT		
	INTRACAVITARY TREATMENT		
I-125 or Ir-192	INTERSTITIAL TREATMENT		
	TELETHERAPY 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

Full-time resident From: 9-1-70 To: 8-31-71  
Total Hours: 550

One year was spent in Nuclear Medicine and Radiation Therapy.

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

### a. NAME OF SUPERVISOR

Marion F. Magalotti, M.D.

### b. NAME OF INSTITUTION

Cook County Hospital

### c. MAILING ADDRESS

1825 West Harrison Street

### d. CITY

Chicago, IL 60612

## 5. MATERIALS LICENSE NUMBER(S)

12-00010-01, 12-0010-05

## 6. PRECEPTOR'S SIGNATURE

SIGNED STATEMENT ALREADY SUBMITTED

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

Marion F. Magalotti, M.D.

## 8. DATE

UNITED STATES ATOMIC ENERGY COMMISSION  
**APPLICATION FOR BYPRODUCT MATERIAL LICENSE—MEDICAL**  
SUPPLEMENT A—PRECEPTOR STATEMENT

This page is to be completed by the applicant physician's preceptor. If more than one preceptor is necessary to document experience, obtain a separate statement from each. Page 2 may be used for comments and additional information.

10. NAME AND ADDRESS OF APPLICANT PHYSICIAN (include ZIP Code)

THEODORE MATUGA, M.D.  
32479 Oak Ave.

Grayslake, Illinois 60030

11. CLINICAL TRAINING AND EXPERIENCE OF PHYSICIAN NAMED IN ITEM 10 ABOVE

(A) ISOTOPE	(B) CONDITIONS DIAGNOSED OR TREATED	(C) No. Cases Observed (See 1 in key below)	(D) No. Cases Involving Personal Participation (See 2 in key below)
I-131 or I-125	Diagnosis of thyroid function	200	120
	Determination of blood and blood plasma volume	25	10
	Liver function studies		
	Fat absorption studies	10	4
	Kidney function studies	10	12
	In vitro studies	10	20
Cr-51	Gastrointestinal protein loss studies		
	Determination of red blood cell volume and studies of red blood cell survival		
Fe-59	Iron turn over studies		
Co-58or Co-60	Intestinal absorption studies	8	5
K-42	Potassium space determinations		
I-131	Thyroid imaging	30	25
	Brain tumor localization and cardiac imaging	5	4
	Cisternography	6	5
	Lung imaging		
	Liver imaging                      Rose Bengal	10	12
	Kidney imaging                      Hippurate	15	10
	Placenta localization		
Cr-51	Placenta localization		
	Spleen imaging		
Au-198	Liver imaging		
Hg-197	Brain imaging		
	Kidney imaging		
Hg-203	Brain imaging		
Sr-85	Bone imaging		
Tc-99m	Brain imaging	40	30
	Thyroid imaging	25	10
	<del>XXXXXXXXXXXX</del> Kidney imaging(D.T.P.A.)	25	10
	Blood pool imaging	10	4

APPLICATION FOR BYPRODUCT MATERIAL LICENSE—MEDICAL  
SUPPLEMENT A—HUMAN USE

(A) ISOTOPE	(B) CONDITIONS DIAGNOSED OR TREATED	(C) No. Cases Observed (See 1 in key below)	(D) No. Cases Involving Personal Participation (See 2 in key below)
Tc-99m	Placenta localization	6	4
	Liver and spleen imaging	50	25
	Lung imaging	50	25
	Bone imaging	25	10
Xe-133	Blood flow studies and pulmonary function studies		
Se-75	Pancreas imaging	10	5
P-32	Treatment of polycythemia, leukemia, and Bone metastases		
	Intracavitary treatment		
I-131	Treatment of thyroid carcinoma	5	4
	Treatment of hyperthyroidism and cardiac condition	20	10
Au-198	Intracavitary treatment		
Co-60 or Cs-137	Interstitial treatment		
	Intracavitary treatment Cesium 137	10	6
Ir-192	Interstitial treatment		
Co-60 CO-137	Teletherapy treatment Telecobalt Telecesium	100	50
		40	30
Sr-90	Treatment of eye disease	10	6

Key to Column (C) and (D) above

1. Observation should consist of observing radioisotope administration techniques and discussion with preceptor the case histories to establish most appropriate diagnostic and/or therapeutic procedure, limitation, contraindications, etc.
2. Personal participation should consist of (a) supervised examination of patients to determine the suitability for radioisotope diagnosis and/or treatment and recommendation on dosage to be prescribed; (b) collaboration in calibration of the dose and the actual administration of the dose to the patient, including calculation of the radiation dose, related measurements, and plotting of data; and (c) adequate period of training to enable the physician to manage radioactive patients and to follow patients through diagnosis and/or the course of treatment.

9-1-70 to 8-31-71 Part of 3yr. Resident  
in Radiology.

12. DATES AND TOTAL NUMBER OF HOURS OF CLINICAL RADIOISOTOPE TRAINING Full time--one year

13. THE TRAINING AND EXPERIENCE INDICATED ABOVE WAS OBTAINED UNDER THE SUPERVISION OF Marion F. Magalotti, M.D.

Cook County Hospital  
1825 West Harrison St.  
AT Chicago, Illinois 60612  
(Institution) Name and Address12-00010-01  
12-00010-05

(Byproduct Material License Number)

Marion F. Magalotti, M.D.  
(Signature of Preceptor)