



Pharmaco nuclear inc.

100 NORTH EUCLID AVENUE • SUITE 900
ST. LOUIS, MISSOURI 63108
(314) 367-9300

January 15, 1981

Re; NRC License No. 24-19360-01MD

Mr. Joseph Del Medico
Materials Licensing Branch
Division of Fuel Cycle and Material Safety
United States Nuclear Regulatory Commission
Washington, DC 20555

Dear Mr. Del Medico:

We ask that you include Frank M. Comer as a user under condition No. 12A. His training and experience is listed under NRC license 24-16617-01MD.

We also request that you add the name of Michael J. Clements as a user under condition No. 12A. The following information is included to document his training and experience:

- a) Curriculum Vita
- b) Experience With Radiation
- c) Certificate of Training
- d) Formal Course Training in College
- e) Nuclear Medicine Technology Certification
- f) Certificate from the American Society of Radiologic Technologists
- h) Registered Technologist Certified by The American Registry of Radiologic Technologists

Your consideration of these requests is appreciated.

William C. McHugh
William C. McHugh, Ph.D.
Manager

License Fee Catagory 3B
Amendment Fee Enclosed \$40.00

Enclosures

COPIES SENT TO OFF. OF
INSPECTION AND ENFORCEMENT

| | |
|------------------|------------------|
| RECEIVED BY LEAD | |
| Date | 1/22/81 |
| Log. | Jan PG 17 Amend. |
| By | Brown |
| Orig. To | |
| Action Comp. | 1/23/81 |

| | |
|-----------|---------|
| 225 | 1/15/81 |
| 40 (30) | |
| Amendment | |
| 1/22/81 | |
| Brown | |

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B3 MD
8103040611

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CURRICULUM VITA

January, 1931

NAME: Michael John Clements

ADDRESS: [REDACTED]

Telephone: [REDACTED]

DATE AND PLACE OF BIRTH: [REDACTED]

MARITAL STATUS: [REDACTED]

EDUCATION:

Sept. 1962-June 1963 - St. Henry's Prep. Seminary
Belleville, Illinois

Sept. 1963-June 1964 - Cathedral High School
Belleville, Illinois

Sept. 1964-June 1966 - Belleville Township High School
Belleville, Illinois

Sept. 1966-Nov. 1968 - Belleville Area College
Liberal Arts Curriculum

Sept. 1970-Sept. 1972 - Belleville Area College
AAS, Radiologic Technology

Sept. 1972-Sept. 1974 - Belleville Area College
Business Administration

Aug. 1978- Dec. 1979 - Southern Illinois University - Carbondale
BS, Occupational Education

ACADEMIC EXPERIENCE:

Sept. 1972-Dec. 1974 Clinical Instructor- Belleville Area College
Jan. 1974 -May. 1980 Teaching Faculty- Belleville Area College
Course; Introduction to Nuclear Medicine

NON-ACADEMIC EXPERIENCE:

Jan. 1971-Nov. 1972 - St. Anthony's Hospital; Nuclear Medicine Tech.

Nov. 1972-Oct. 1974 - Centreville Township Hospital; Assistant Chief
Radiologic Technologist/Nuclear Med. Tech.

Oct. 1974-Jan. 1981 - St. Mary's Hospital, East St. Louis, Ill.;
Chief Nuclear Medicine Technologist

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CERTIFICATION:

Registered Radiologic Technologist - American Registry of Radiologic
Technology- 1972 - 39843

Registered Nuclear Medicine Technologist- American Registry of Radiologic
Technologist- 1974 - XN89843

Certified Nuclear Medicine Technologist - Nuclear Medicine Technologist
Certification Board- 1979

MILITARY EXPERIENCE:

Nov. 1968-Jan. 1970 - U.S.Navy; DaNang, Vietnam - Honorable Discharge

PROFESSIONAL ORGANIZATIONS:

American Society of Radiologic Technologists
Illinois State Society of Radiologic Technologists
American Society of Nuclear Medicine Technologists
Society of Nuclear Medicine
Greater St. Louis Association of Nuclear Medicine Technologists

PRESENTATIONS:

Careers in Radiology, Belleville Area College, 1977, Belleville, Ill.

Xeroradiography of the Breast, Illinois State Society of Radiologic
Technologists, Dist.11., 1972, Belleville, Ill.

Clinical Applications of the Baird System 70 Camera, Baird Atomic Inc.,
1975, Bedford Mass.

Renal Imaging and Evaluation by Radionuclide Methods, Baird Atomic,
1977, Bedford Mass.

Nuclear Medicine, a Physiological Review; 1977, Illinois State Society
of Radiologic Technologist, State Convention,
Collinsville, Ill.

EXPERIENCE WITH RADIATION (Actual use of Radioisotopes or equivalent experience)

Michael J. Clements

| <u>ISOTOPE</u> | <u>MAXIMUM AMOUNT</u> | <u>WHERE EXPERIENCE WAS GAINED</u> | <u>DURATION EXPERIENCE</u> | <u>TYPE OF USE</u> |
|----------------|---------------------------|---|--------------------------------|--|
| 131-I | 267mCi | St. Mary's Hospital East St. Louis, Ill. | 6.5 years | Clinical |
| 125-I | 1.0mCi | St. Mary's Hospital East St. Louis, Ill. | 6.5 years | Clinical |
| 123-I | 50mCi | St. Mary's Hospital East St. Louis, Ill. | 2.0 years | Clinical |
| 99m-Tc | 1223.5Ci | St. Mary's Hospital 129 North Eighth St. East St. Louis, Ill. | 6.5 years | Clinical and prep. of radiopharm. for human use: Albumin, micro- spheres, Fe Ascorbate, DTPA-Sn, Pyrophosphate MAA, Sulfur Colloid, Medionate, |
| 99-Mo | 474.5Ci | St. Mary's Hospital East St. Louis, Ill. | 6.5 years | Clinical |
| 133-Xe | 7.8Ci | St. Mary's Hospital East St. Louis, Ill. | 2.0 years | Clinical |
| 137-Cs | 1.0uCi | St. Mary's Hospital East St. Louis, Ill. | 6.5 years | Calibration |
| 57-Co | 10.5mCi | St. Mary's Hospital East St. Louis, Ill. | 6.5 years | Calibration |
| 75-Se | 6.25mCi | St. Mary's Hospital East St. Louis, Ill. | 6.5 years | Clinical |
| 67-Ga | 20mCi | St. Mary's Hospital East St. Louis, Ill. | 2.0 years | Clinical |
| 32-P | 75mCi | St. Mary's Hospital East St. Louis, Ill. | 6.5 years | Clinical |
| 201-Tl | 25mCi | Pharmaco Nuclear, Mo. | 1 month | Clinical |
| 169-Yb | 12.5mCi | Pharmaco Nuclear, Mo. | 1 month | Clinical |

CERTIFICATE OF TRAINING

This Certificate is given to

MICHAEL J. CLEMENTS

ST. MARY'S HOSPITAL

for satisfactory completion of the course in

NUCLEAR MEDICINE TECHNOLOGY UPDATE

1.1 CEU OR 11 HOURS CATEGORY 1 PHYSICIAN'S RECOGNITION AWARD

Given at St. Louis, Missouri

on May 21 - 22, 1976

Ralph T. Overman

RALPH T. OVERMAN, Ph.D., Associate Director, RMEC

F. A. Zacharewicz

F. A. ZACHAREWICZ, M.D., Medical Director, RMEC

06132

**TRAINING AND EXPERIENCE
AUTHORIZED USER OR RADIATION SAFETY OFFICER**

| | |
|---|--|
| 1. NAME OF AUTHORIZED USER OR RADIATION SAFETY OFFICER Michael John Clements | 2. STATE OR TERRITORY IN WHICH LICENSED TO PRACTICE MEDICINE |
|---|--|

| 3. CERTIFICATION | | |
|---|------------------|-------------------------------|
| SPECIALTY BOARD A | CATEGORY B | MONTH AND YEAR CERTIFIED C |
| American Registry of Radiologic Technologist | Nuclear Medicine | Dec. 1974 |
| Nuclear Medicine Technologist Certification Board | Nuclear Medicine | May, 1979 |

| 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 | Belleville Area College Belleville, Illinois 62221 Radiologic Technology Prg. Sept. 1970- Sept. 1972 | 144hrs. | 64hrs. |
| b. RADIATION PROTECTION | same as above | 50hrs. | 36hrs. |
| c. MATHEMATICS PERTAINING TO THE USE AND MEASUREMENT OF RADIOACTIVITY | same as above | 25hrs. | 30hrs. |
| d. RADIATION BIOLOGY | same as above | 48hrs. | |
| e. RADIOPHARMACEUTICAL CHEMISTRY | same as above | 8hrs. | 16 hrs |

| 5. EXPERIENCE WITH RADIATION. (Actual use of Radioisotopes or Equivalent Experience) | | | | |
|--|----------------|-----------------------------|------------------------|-------------|
| ISOTOPE | MAXIMUM AMOUNT | WHERE EXPERIENCE WAS GAINED | DURATION OF EXPERIENCE | TYPE OF USE |
| | | See attached sheet | | |

Nuclear Medicine Technology Certification Board

HEREBY CERTIFIES THAT

MICHAEL J. CLEMENTS

HAS MET THE REQUIREMENTS OF THIS BOARD
AND IS HEREBY QUALIFIED TO PRACTICE THE SPECIALTY OF
NUCLEAR MEDICINE TECHNOLOGY



Mark J. Mulenberg
CHAIRMAN

John H. Hurst
SECRETARY

Susan L. Schlegel
TREASURER

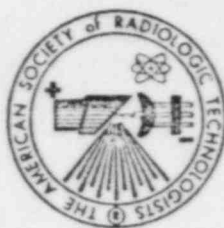
Donald R. Benies
James J. Conway, M.D.
Louis M. Dizzo

James J. Kellner
Frances N. Kontzen
James H. Sangaw

John J. Reilly
Sheila Rosenfeld
Susan Weiss



The American Society of Radiologic Technologists



Know All Men By These Presents, That

MICHAEL JOHN CLEMENTS, RT

having shown by written, oral and practical demonstration of exceptional ability a high order of proficiency in the Science and Art of Radiography; and having been furthermore judged to be of good character, ethically sound, and pledged to the upholding of the Radiographer's Creed, is hereby declared an **ACTIVE MEMBER** of The American Society of Radiologic Technologists, subject to all the rights, honors, privileges and duties pertaining thereto.



Date of Membership

MARCH 12, 1973

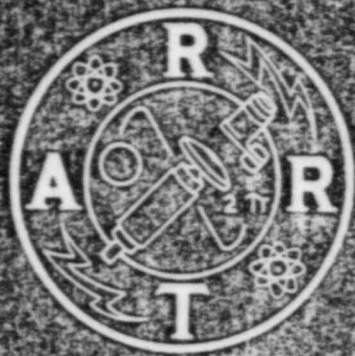
Barbara M. Lucio

President

Jeanne Mogg

Secretary-Treasurer

This Certificate valid only
until limit indicated by seal



THE AMERICAN REGISTRY OF RADIOLOGIC TECHNOLOGISTS

Representative of
The American College of Radiology and
The American Society of Radiologic Technologists

HEREBY CERTIFIES THAT

Michael J. Clements

has pursued an approved educational program in Nuclear Medicine Technology, has met certain standards and qualifications and has passed the examinations conducted under authority of this Registry, and is thus qualified as a

Registered Technologist
Nuclear Medicine Technology

and by virtue of this certificate is authorized to use the title Registered Technologist and its abbreviation R.T. (ARRT) as long as this certificate is in force as is indicated by the current date appearing on the seal hereon attached.

Julian Charny
PRESIDENT

Charles S. Smith
SECRETARY

XN - 89849

1975