



KAISER PERMANENTE®

Mid-Atlantic Permanente Medical Group, P.C.
Kaiser Foundation Health Plan of the Mid-Atlantic States, Inc.

NMSB 2

May 20, 2005

U.S. Nuclear Regulatory Commission, Region II
Materials Licensing
Division of Nuclear Material Safety
Atlanta Federal Center
61 Forsyth Street, SW, Suite 23T85
Atlanta, GA 30303

03036776

RECEIVED
REGION II
2005 MAY 17 AM 11:43

RE: Amendment request for license 45-30980-01

Attention: Licensing

Please amend the above referenced license to add as authorized user Yaning Liu, M.D. I have included the Training and Experience and Preceptor Statement for your review. Your assistance with this request is much appreciated.

Sincerely,

Carol P. Cardinale MD
Carol P. Cardinale, MD
Radiation Safety Officer



One Robert Wood Johnson Place, P.O. Box 19
New Brunswick, New Jersey 08903-0019

Dr. Liu has spent a total of 2 months in formal non-invasive stress/imaging and 1-1/2 months in nuclear medicine rotations at Robert Wood Johnson University Hospital from July 1998 through June 2000. Also during her fellowship there was correlation of nuclear cardiology procedures while on her clinical rotations. Dr. Liu's exposure to nuclear cardiology has also included didactic monthly conferences, case presentations, and clinical conferences during her rotation through nuclear cardiology and has involved greater than 600 myocardial perfusion examinations including planar, SPECT, and gated SPECT technique, as well as gated blood pool examinations. During her rotation through the Nuclear Medicine Department she has gained experience in quality control/assurance, dose calibration of survey meters, administration of radiopharmaceuticals, computer processing, radiation safety, as well as general operation of our facility in compliance with the NRC regulations. Dr. Liu has accrued in excess of 583 hours of clinical and technical experience in nuclear medicine while at our facility.

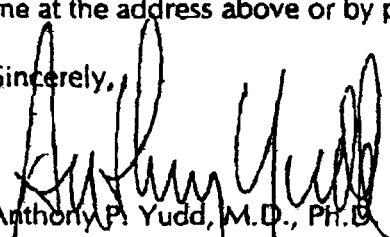
June 9, 2000
Page 2

Dr. Liu has also gained experience in nuclear cardiology during her rotations through Deborah Heart and Lung Center. Please find attached copies of letters from Dr. Lumia of Deborah Heart and Lung Center where he describes Dr. Liu's experience best in the letter dated March 3, 2000. Dr. Liu had spent a total of four months at Deborah Heart and Lung Center. Dr. Lumia credits her with three months of clinical and work experience towards NRC licensure. This would be a total of 500 hours of clinical and work experience.

Dr. Liu accrued in excess of 1000 hours of clinical and technical experience in nuclear cardiology combining her rotations at Robert Wood Johnson University Hospital and the Deborah Heart and Lung Center in New Jersey.

If I can provide any further information regarding Dr. Liu's training you may contact me at the address above or by phone at 732-937-8612.

Sincerely,



Anthony P. Yudd, M.D., Ph.D.
Clinical Associate Professor
Department of Radiology
UMDNJ-Robert Wood Johnson Medical School

Chief, Division of Nuclear Medicine
Robert Wood Johnson University Hospital

APY/fl

Enclosure

TRAINING AND EXPERIENCE AND PRECEPTOR STATEMENT

PART I -- TRAINING AND EXPERIENCE

Note: Descriptions of training and experience must contain sufficient detail to match the training and experience criteria in the applicable regulations.

1. Name of Individual, Proposed Authorization (e.g., Radiation Safety Officer), and Applicable Training Requirements (e.g., 10 CFR 35.50)

Yanning LIU, MD, PH.D

2. For Physicians, Podiatrists, Dentists, Pharmacists -- State or Territory Where Licensed

Virginia, Maryland, District of Columbia (DC)

3. CERTIFICATION

| Specialty Board | Category | Month and Year Certified |
|-----------------|----------|--------------------------|
| | | |

Stop here when using Board Certification to meet 10 CFR Part 35 training and experience requirements.

4. DIDACTIC OR CLASSROOM AND LABORATORY TRAINING (optional for Medical Physicists)

| Description of Training | Location | Clock Hours | Dates of Training |
|--|--|-----------------------------|----------------------|
| Radiation Physics and Instrumentation | Institute for Nuclear Medical Education 3600 Airport Blvd. S2101 Boulder, CO 80301 | 100 hrs-INSR 100 hrs-PHY | 10/20/99 10/16/99 |
| Radiation Protection | 11 | 100 hrs | 3/22/2000 |
| Mathematics Pertaining to the Use and Measurement of Radioactivity | | | |
| Radiation Biology | | | |
| Chemistry of Byproduct Material for Medical Use | 11 | 100 hrs | 3/26/2000 |
| OTHER | | | |

TRAINING AND EXPERIENCE AND PRECEPTOR STATEMENT (continued)

5a. WORK EXPERIENCE WITH RADIATION

| Description of Experience | Name of Supervising Individual(s) | Location and Corresponding Materials License Number | Dates and Clock Hours of Experience |
|-----------------------------|-----------------------------------|--|-------------------------------------|
| Nuclear Cardiology Training | Anthony P. Judd MD, PhD | Robert Wood Johnson University New Brunswick NJ 08903 24-10127 | 76 1/2 mos. |
| | | 24-10173-02 | |
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5b. SUPERVISED CLINICAL CASE EXPERIENCE

| Radionuclide | Type of Use | No. of Cases Involving Personal Participation | Name of Supervising Individual | Location and Corresponding Materials License Number | Dates and Clock Hours of Experience |
|--------------|----------------------|---|--------------------------------|---|-------------------------------------|
| Tc99m | TcO4/GBP | 100+ | A. Judd | 24-10173-02 | 76 1/2 mos |
| Tl201 | Perfusion/Myocardial | 600+ | / | | |
| Tc99m Tl201 | Perfusion Myocardial | 600+ | | | |
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TRAINING AND EXPERIENCE AND PRECEPTOR STATEMENT (continued)

6. FORMAL TRAINING (applies to Medical Physicists and Therapy Physicians)

| Degree, Area of Study or Residency Program | Name of Program and Location with Corresponding Materials License Number | Dates | Name of Organization that Approved the Program (e.g., Accreditation Council for Graduate Medical Education) and the Applicable Regulation (e.g., 10 CFR 35.490) |
|--|--|-------|--|
| | | | |

7. RADIATION SAFETY OFFICER – ONE-YEAR FULL-TIME WORK EXPERIENCE

- ☐ YES Completed 1-year of full-time radiation safety experience (in areas identified in item 5a) under supervision
☒ N/A of _____ the RSO for License No. _____

8. MEDICAL PHYSICIST – ONE-YEAR FULL-TIME TRAINING/WORK EXPERIENCE

- ☐ YES Completed 1-year of full-time training in therapeutic radiological physics under the supervision of
☒ N/A _____ who meets requirements for Authorized Medical Physicists; and
- ☐ YES Completed 1-year of full-time work experience (for areas identified in item 5a) for _____
☒ N/A modality(ies) under the supervision of _____ who meets
requirements of Authorized Medical Physicists for _____ modality(ies).

9. SUPERVISING INDIVIDUAL – IDENTIFICATION AND QUALIFICATIONS

The training and experience indicated above was obtained under the supervision of (if more than one supervising individual is needed to meet requirements in 10 CFR 35, provide the following information for each) :

A. Name of Supervisor

B. Supervisor is:

Anthony Yodd, M.D. Ph.D☒ Authorized User☐ Authorized Medical Physicist☐ Radiation Safety Officer☐ Authorized Nuclear PharmacistC. Supervisor meets requirements of Part 35, Section(s) 100, 200, 300for medical uses in Part 35, Section(s) 100, 200, 300

D. Address

Robert Wood Johnson Univ. Hosp
New Brunswick, NJ 08903

E. Materials License Number

29-10173-02732-937-8610

TRAINING AND EXPERIENCE AND PRECEPTOR STATEMENT (continued)

PART II -- PRECEPTOR STATEMENT

Note: This part must be completed by the individual's preceptor. If more than one preceptor is necessary to document experience, obtain a separate preceptor statement from each. This part is not required to meet the training requirements in 10 CFR 35.590.

Item 10 must be completed for Nuclear Pharmacists meeting the requirements of 10 CFR Part 35, Subpart J. Preceptors do not have to complete items 11a, 11b, or the certifying statements for other individuals meeting the requirements of 10 CFR Part 35, Subpart J.

☐ YES
☒ N/A 10. The individual named in item 1 has satisfactorily completed the training requirements in 10 CFR 35.980 and is competent to independently operate a nuclear pharmacy.

☒ YES
☐ N/A 11a. The individual named in Item 1 has satisfactorily completed the requirements in Part 35, Section(s) and Paragraph(s) 35.200.

☒ YES
☐ N/A 11b. The individual named in Item 1. is competent to independently function as an authorized User for 35.200 uses (or units).

12. PRECEPTOR APPROVAL AND CERTIFICATION

☐ I certify the approval of item 10 and certify I am an Authorized Nuclear Pharmacist;

OR

☐ I certify the approval of items 11a and 11b, and certify I am an Authorized Nuclear Pharmacist;

OR

☒ I certify the approval of Items 11a and 11b, and I certify that I meet the requirements of NRC or equivalent Agreement State requirements to be a preceptor authorized N/A for the following uses (or units) of byproduct material: ~~35.110~~, 35.200, 35.100

A. Address Robert Wood Johnson Univ. Hosp.
New Brunswick, NJ 08903

B. Materials License Number 29-10173-02

732-937-8610

C. NAME OF PRECEPTOR (print clearly)

A. F. UOD

D. SIGNATURE - PRECEPTOR

Anthony F. UOD

E. DATE

4.27.05

NUCLEAR MEDICAL EDUCATION PROGRAM

Affidavit of Academic Completion and Competency

This document is to attest that

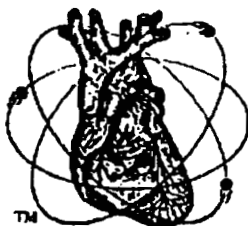
Yanling Liu, MD, Ph.D

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 and Agreement States)
- 5 Continuing Education Units (CEU)
- 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

20 October 1999

Date Class Commenced

Charles H. Rose

Authorized Signature

197771

Affidavit of Competency

Institute for Nuclear Medical Education

5660 Airport Blvd., Suite 101, Boulder, Colorado 80301 — 800-548-4024

INME1132-Class II-Comp16

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

This document is to attest that

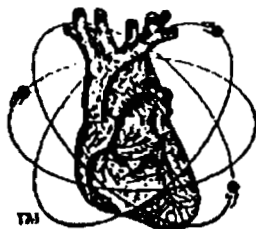
Yaning Liu, MD, Ph.D

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 and Agreement States)
- 5 Continuing Education Units (CEU)
- 50 Technical/Professional Credit specified by the
American Pharmaceutical Association and the
American Association of Health Physicists*

*Individual documentation will be provided to Regulatory Agencies upon participant request.

16 October 1999

Date Class Commenced

Charles H. Rose

Authorized Signature

197695

Affidavit of Competency

Institute for Nuclear Medical Education

5660 Airport Blvd., Suite 101, Boulder, Colorado 80301 — 800-548-4024

INME1132-Class 1-Complete

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 & Competency

This document is to attest that

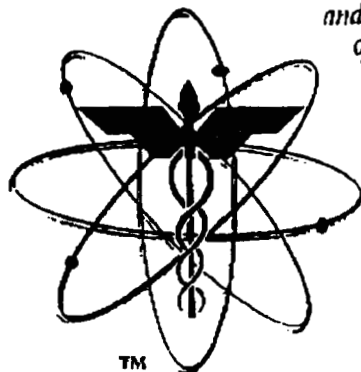
Yaning Liu, MD, Ph.D

has successfully completed the didactic program

MEDICAL RADIATION PROTECTION

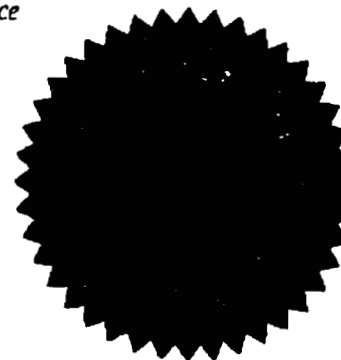
and has provided evidence of attendance in this program and evidence of achieving the objectives of this program through examination.

This program provides the following levels of accomplishment:



TM

- 5.0 Continuing Education Units (CEU)
- 50 Didactic Instructional Hours (DIH)
In compliance with 10CFR35/AEA 73-689
- 50 Board Accepted Hours NUSPEX, NMTCB III b,
ABMRSD, CBNC, MRLB
- 3.0 Semester Hours American Council on
Education (ACE), American Association for
Collegiate Registrars



Charles H. Rose
Certifying Official

22 March 2000

Date Completed

198115

Certification

Institute for Nuclear Medical Education

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. Licensed by NRC & Agreement States.
BNME1132-Class III-Compil Comp 1000

NUCLEAR MEDICAL EDUCATION PROGRAM

Affidavit of Academic Completion & Competency

This document is to attest that

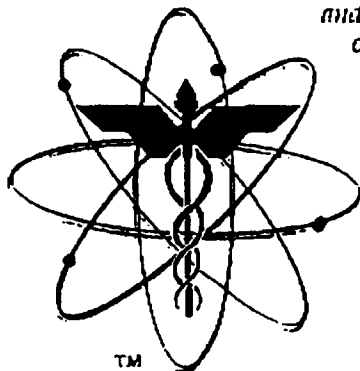
Yanling Liu, MD, Ph.D

has successfully completed the didactic program

RADIOPHARMACEUTICALS AND CHEMISTRY

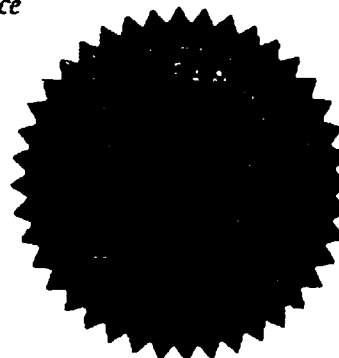
and has provided evidence of attendance in this program and evidence of achieving the objectives of this program through examination.

This program provides the following levels of accomplishment:



TM

- 5.0 Continuing Education Units (CEU)
- 50 Didactic Instructional Hours (DIH)
In compliance with 10CFR35/AEA 73-689
- 50 Board Accepted Hours NUSPEX, NMTCB III b,
ABMRSO, CBNC, MRLB
- 3.0 Semester Hours American Council on
Education (ACE), American Association for
Collegiate Registrars



Charles H. Rose
Certifying Official

26 March 2000
Date Completed

198197
Certification

Institute for Nuclear Medical Education

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. Licensed by NRC & Agreement States.
INME1132-Class IV-Comp8 Comp 100

This is to acknowledge the receipt of your letter/application dated

5/24/05 ^(RECEIVED) 8/12/2005, and to inform you that the initial processing which includes an administrative review has been performed.

☒ ATLANTA-45-30780-01 There were no administrative omissions. Your application was assigned to a technical reviewer. Please note that the technical review may identify additional omissions or require additional information.

☐ Please provide to this office within 30 days of your receipt of this card

A copy of your action has been forwarded to our License Fee & Accounts Receivable Branch, who will contact you separately if there is a fee issue involved.

Your action has been assigned **Mail Control Number** 137527.
When calling to inquire about this action, please refer to this control number.
You may call us on (610) 337-5398, or 337-5260.