

RECEIVED
06/05/2020

June 5, 2020

U.S. Nuclear Regulatory Commission
Region IV
1600 E. Lamar Blvd.
Arlington, Texas 76011-4511

Mail Control Number: 621151
Docket Number : 3039216
License Number : 40-16571-02
Licensee Name : Avera McKennen/Nuclear Medicine

Dear Sir or Madam:

Re: NRC Radioactive Material License #40-16571-02

At this time, Avera McKennen wishes to add two Authorized Users for Material and Use of 35.200 under Item 12. B. The two proposed Authorized users are Elden Rand, MD and Christopher Paa, MD. Attached you will find the Certificates from the Board of Nuclear Cardiology, Current Certification proof, Preceptor Attestation, and CME from the last seven years.

If you have any questions or need additional information regarding this request, please contact me at (605) 929-9056.

Sincerely:

Michelle White, RSO

Michelle White, RSO
Radiation Safety Officer
Avera McKennen

NRC FORM 313

(01-2020)
10 CFR 30, 32,
33, 34, 35, 36,
37, 39, and 40

U.S. NUCLEAR REGULATORY COMMISSION

APPLICATION FOR
MATERIALS LICENSE

APPROVED BY OMB: NO. 3150-0120

EXPIRES: 01/31/2023

Estimated burden per response to comply with this mandatory collection request: 4.3 hours. Submittal of the application is necessary to determine that the applicant is qualified and that adequate procedures exist to protect the public health and safety. Send comments regarding burden estimate to the Information Services Branch (T-6 A10M), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by e-mail to Infocollects.Resource@nrc.gov, and to the Desk Officer, Office of Information and Regulatory Affairs, NEOB-10202, (3150-0120), Office of Management and Budget, Washington, DC 20503. If a means used to impose an information collection does not display a currently valid OMB control number, the NRC may not conduct or sponsor, and a person is not required to respond to, the information collection.

INSTRUCTIONS: SEE THE CURRENT VOLUMES OF THE NUREG-1556 TECHNICAL REPORT SERIES ("CONSOLIDATED GUIDANCE ABOUT MATERIALS LICENSES") FOR DETAILED INSTRUCTIONS FOR COMPLETING THIS FORM: <http://www.nrc.gov/reading-rm/doc-collections/nuregs/staff/sr1556/>. SEND TWO COPIES OF THE COMPLETED APPLICATION TO THE NRC OFFICE SPECIFIED BELOW.

APPLICATION FOR DISTRIBUTION OF EXEMPT PRODUCTS FILE APPLICATIONS WITH:

MATERIALS SAFETY LICENSING BRANCH
DIVISION OF MATERIAL SAFETY, STATE, TRIBAL AND RULEMAKING PROGRAMS
OFFICE OF NUCLEAR MATERIALS SAFETY AND SAFEGUARDS
U.S. NUCLEAR REGULATORY COMMISSION
WASHINGTON, DC 20555-0001

ALL OTHER PERSONS FILE APPLICATIONS AS FOLLOWS:

IF YOU ARE LOCATED IN:

ALABAMA, CONNECTICUT, DELAWARE, DISTRICT OF COLUMBIA, FLORIDA,
GEORGIA, KENTUCKY, MAINE, MARYLAND, MASSACHUSETTS, NEW HAMPSHIRE,
NEW JERSEY, NEW YORK, NORTH CAROLINA, PENNSYLVANIA, PUERTO RICO,
RHODE ISLAND, SOUTH CAROLINA, TENNESSEE, VERMONT, VIRGINIA, VIRGIN
ISLANDS, OR WEST VIRGINIA,

SEND APPLICATIONS TO:

LICENSING ASSISTANCE TEAM
DIVISION OF NUCLEAR MATERIALS SAFETY
U.S. NUCLEAR REGULATORY COMMISSION, REGION I
2100 RENAISSANCE BOULEVARD, SUITE 100
KING OF PRUSSIA, PA 19406-2713

IF YOU ARE LOCATED IN:

ILLINOIS, INDIANA, IOWA, MICHIGAN, MINNESOTA, MISSOURI, OHIO, OR WISCONSIN, SEND
APPLICATIONS TO:

MATERIALS LICENSING BRANCH
U.S. NUCLEAR REGULATORY COMMISSION, REGION III
2443 WARRENVILLE ROAD, SUITE 210
LISLE, IL 60532-4352

IF YOU ARE LOCATED IN:

ALASKA, ARIZONA, ARKANSAS, CALIFORNIA, COLORADO, HAWAII, IDAHO, KANSAS,
LOUISIANA, MISSISSIPPI, MONTANA, NEBRASKA, NEVADA, NEW MEXICO, NORTH
DAKOTA, OKLAHOMA, OREGON, PACIFIC TRUST TERRITORIES, SOUTH DAKOTA, TEXAS,
UTAH, WASHINGTON, OR WYOMING,

SEND APPLICATIONS TO:

NUCLEAR MATERIALS LICENSING BRANCH
U.S. NUCLEAR REGULATORY COMMISSION, REGION IV
1600 E. LAMAR BOULEVARD
ARLINGTON, TX 76011-4511

PERSONS LOCATED IN AGREEMENT STATES SEND APPLICATIONS TO THE U.S. NUCLEAR REGULATORY COMMISSION ONLY IF THEY WISH TO POSSESS AND USE LICENSED MATERIAL IN STATES SUBJECT TO U.S. NUCLEAR REGULATORY COMMISSION JURISDICTIONS.

1. THIS IS AN APPLICATION FOR (Check appropriate item)

- ☐ A. NEW LICENSE
- ☒ B. AMENDMENT TO LICENSE NUMBER 40-16571-02
- ☐ C. RENEWAL OF LICENSE NUMBER _____

2. NAME AND MAILING ADDRESS OF APPLICANT (Include zip code)

Avera McKennan/Nuclear Medicine
1325 South Cliff Avenue
Sioux Falls, SD 57117-5045

3. ADDRESS WHERE LICENSED MATERIALS WILL BE USED OR POSSESSED

4. NAME OF PERSON TO BE CONTACTED ABOUT THIS APPLICATION

Michelle White, RSO

BUSINESS TELEPHONE NUMBER
605-322-7170

BUSINESS CELLULAR TELEPHONE NUMBER
605-929-9056

BUSINESS E-MAIL ADDRESS
michelle.white@avera.org

SUBMIT ITEMS 5 THROUGH 11 ON 8-1/2 X 11" PAPER. THE TYPE AND SCOPE OF INFORMATION TO BE PROVIDED IS DESCRIBED IN THE LICENSE APPLICATION GUIDE.

5. RADIOACTIVE MATERIAL

- a. Element and mass number; b. chemical and/or physical form; and c. maximum amount which will be possessed at any one time.

6. PURPOSE(S) FOR WHICH LICENSED MATERIAL WILL BE USED.

7. INDIVIDUAL(S) RESPONSIBLE FOR RADIATION SAFETY PROGRAM AND THEIR TRAINING AND EXPERIENCE.

8. TRAINING FOR INDIVIDUALS WORKING IN OR FREQUENTING RESTRICTED AREAS.

9. FACILITIES AND EQUIPMENT.

10. RADIATION SAFETY PROGRAM.

11. WASTE MANAGEMENT.

12. LICENSE FEES (Fees required only for new applications, with few exceptions*)
(See 10 CFR 170 and Section 170.31)

*Amendments/Renewals that increase the scope of the existing license to a new or higher fee category will require a fee.

FEE CATEGORY

AMOUNT ENCLOSED \$

PER THE DEBT COLLECTION IMPROVEMENT ACT OF 1996 (PUBLIC LAW 104-134), YOU ARE REQUIRED TO PROVIDE YOUR TAXPAYER IDENTIFICATION NUMBER. PROVIDE THIS INFORMATION BY COMPLETING NRC FORM 531: <https://www.nrc.gov/reading-rm/doc-collections/forms/nrc531info.html>.

13. CERTIFICATION. (Must be completed by applicant) THE APPLICANT UNDERSTANDS THAT ALL STATEMENTS AND REPRESENTATIONS MADE IN THIS APPLICATION ARE BINDING UPON THE APPLICANT.

THE APPLICANT AND ANY OFFICIAL EXECUTING THIS CERTIFICATION ON BEHALF OF THE APPLICANT, NAMED IN ITEM 2, CERTIFY THAT THIS APPLICATION IS PREPARED IN CONFORMITY WITH TITLE 10, CODE OF FEDERAL REGULATIONS, PARTS 30, 32, 33, 34, 35, 36, 37, 39, AND 40, AND THAT ALL INFORMATION CONTAINED HEREIN IS TRUE AND CORRECT TO THE BEST OF THEIR KNOWLEDGE AND BELIEF.

WARNING: 18 U.S.C. SECTION 1001 ACT OF JUNE 25, 1948 62 STAT. 749 MAKES IT A CRIMINAL OFFENSE TO MAKE A WILLFULLY FALSE STATEMENT OR REPRESENTATION TO ANY DEPARTMENT OR AGENCY OF THE UNITED STATES AS TO ANY MATTER WITHIN ITS JURISDICTION.

CERTIFYING OFFICER - TYPED/PRINTED NAME AND TITLE

Michelle White, Radiation Safety Officer

SIGNATURE

Michelle White, RSO

DATE

6-5-20

FOR NRC USE ONLY

TYPE OF FEE	FEE LOG	FEE CATEGORY	AMOUNT RECEIVED	CHECK NUMBER	COMMENTS
			\$		
APPROVED BY				DATE	

**AUTHORIZED USER TRAINING, EXPERIENCE AND PRECEPTOR ATTESTATION**
(for uses defined under 35.100, 35.200, and 35.500)
[10 CFR 35.57, 35.190, 35.290, and 35.590]

Name of Proposed Authorized User

Christopher Paa, MD

State or Territory Where Licensed

South Dakota

Requested Authorization(s) (check all that apply)

- ☐ 35.100 Uptake, dilution, and excretion studies ☒ 35.200 Imaging and localization studies
☐ 35.500 Sealed sources for diagnosis (specify device) _____

PART I -- TRAINING AND EXPERIENCE
(Select one of the three methods below)

* Training and Experience, including board certification, must have been obtained within the 7 years preceding the date of application or the individual must have obtained related continuing education and experience since the required training and experience was completed. Provide dates, duration, and description of continuing education and experience related to the uses checked above.

☒ **1. Board Certification**

- a. Provide a copy of the board certification.
- b. For a board certification issued on or before October 24, 2005 that is listed in 10 CFR 35.57(b)(2)(i), provide the following:
- (i) Documentation that the individual performed each use checked above on or before October 24, 2005.
 - (ii) Dates, duration, and description of continuing education and experience within the past seven years for each use checked above.
- c. Stop here.

☐ **2. Current 35.390 Authorized User Seeking Additional 35.290 Authorization**

- a. Authorized user on Materials License _____ meeting 10 CFR 35.390, 10 CFR 35.57 for 35.300 uses, or equivalent Agreement State requirements seeking authorization for 35.290.
- b. Supervised Work Experience.
(If more than one supervising individual is necessary to document supervised work experience, provide multiple copies of this section.)

Description of Experience	Location of Experience/License or Permit Number of Facility	Clock Hours	Dates of Experience*
Eluting generator systems appropriate for the preparation of radioactive drugs for imaging and localization studies, measuring and testing the eluate for radionuclidic purity, and processing the eluate with reagent kits to prepare labeled radioactive drugs			
Total Hours of Experience: <input type="text"/>			
Supervising Individual		License/Permit Number listing supervising individual as an authorized user or authorized nuclear pharmacist	

Supervisor meets the requirements below, or equivalent Agreement State requirements (check all that apply).

- ☐ 35.290 ☐ 35.390 + generator experience in 32.290(c)(1)(ii)(G) ☐ 35.55 ☐ 35.57 for 35.200 uses

c. If board certified, provide a copy of the certificate and stop here. If not board certified, skip to and complete Part II Preceptor Attestation.

AUTHORIZED USER TRAINING, EXPERIENCE AND PRECEPTOR ATTESTATION
(for uses defined under 35.100, 35.200, and 35.500)
[10 CFR 35.57, 35.190, 35.290, and 35.590](continued)

☐ **3. Training and Experience for Proposed Authorized User**

a. Classroom and Laboratory Training.

Description of Training	Location of Training	Clock Hours	Dates of Training*
Radiation physics and instrumentation			
Radiation protection			
Mathematics pertaining to the use and measurement of radioactivity			
Chemistry of byproduct material for medical use <i>(not required for 35.590)</i>			
Radiation biology			
Total Hours of Training: <input type="text"/>			

b. Supervised Work Experience (completion of this table is not required for 35.590).
(If more than one supervising individual is necessary to document supervised work experience, provide multiple copies of this section.)

Supervised Work Experience		Total Hours of Experience:	
Description of Experience Must Include:	Location of Experience/License or Permit Number of Facility	Confirm	Dates of Experience*
Ordering, receiving, and unpacking radioactive materials safely and performing the related radiation surveys		<input type="checkbox"/> Yes <input type="checkbox"/> No	
Performing quality control procedures on instruments used to determine the activity of dosages and performing checks for proper operation of survey meters		<input type="checkbox"/> Yes <input type="checkbox"/> No	

AUTHORIZED USER TRAINING, EXPERIENCE AND PRECEPTOR ATTESTATION
(for uses defined under 35.100, 35.200, and 35.500)
[10 CFR 35.57, 35.190, 35.290, and 35.590](continued)

3. Training and Experience for Proposed Authorized User (continued)

b. Supervised Work Experience. (continued)

Description of Experience Must Include:	Location of Experience/License or Permit Number of Facility	Confirm	Dates of Experience*
Calculating, measuring, and safely preparing patient or human research subject dosages		<input type="checkbox"/> Yes <input type="checkbox"/> No	
Using administrative controls to prevent a medical event involving the use of unsealed byproduct material		<input type="checkbox"/> Yes <input type="checkbox"/> No	
Using procedures to contain spilled byproduct material safely and using proper decontamination procedures		<input type="checkbox"/> Yes <input type="checkbox"/> No	
Administering dosages of radioactive drugs to patients or human research subjects		<input type="checkbox"/> Yes <input type="checkbox"/> No	
Eluting generator systems appropriate for the preparation of radioactive drugs for imaging and localization studies, measuring and testing the eluate for radionuclidic purity, and processing the eluate with reagent kits to prepare labeled radioactive drugs		<input type="checkbox"/> Yes <input type="checkbox"/> No*	

Supervising Individual	License/Permit Number listing supervising individual as an authorized user or an authorized nuclear pharmacist for generator training
------------------------	---

Supervisor meets the requirements below, or equivalent Agreement State requirements (*check one*).

- ☐ 35.190 ☐ 35.290 ☐ 35.390 ☐ 35.390 + generator experience in 35.290(c)(1)(ii)(G)
☐ 35.55 ☐ 35.57 for 35.200 uses

*Not required for 10 CFR 35.100 use.

c. For 35.590 only, provide documentation of training on use of the device.

Device	Type of Training	Location and Dates

d. For 35.500 uses only, stop here. For 35.100 and 35.200 uses, skip to and complete Part II Preceptor Attestation.

AUTHORIZED USER TRAINING, EXPERIENCE AND PRECEPTOR ATTESTATION
(for uses defined under 35.100, 35.200, and 35.500)
[10 CFR 35.57, 35.190, 35.290, and 35.590](continued)

PART II – PRECEPTOR ATTESTATION

Note: This part must be completed by the individual's preceptor. The preceptor does not have to be the supervising individual as long as the preceptor provides, directs, or verifies training and experience required. If more than one preceptor is necessary to document experience, obtain a separate preceptor statement from each. (Not required to meet training requirements in 35.590)

By checking the boxes below, the preceptor is not attesting to the individual's "general clinical competency."

First Section

Check one of the following for each use requested:

For 35.190

☐ I attest that _____ has satisfactorily completed the 60 hours of training and
Name of Proposed Authorized User
experience, including a minimum of 8 hours of classroom and laboratory training, required by 10 CFR 35.190(c)(1), and is able to independently fulfill the radiation safety-related duties as an authorized user for the medical uses authorized under 10 CFR 35.100.

For 35.290

☐ I attest that _____ has satisfactorily completed the 700 hours of training
Name of Proposed Authorized User
and experience, including a minimum of 80 hours of classroom and laboratory training, required by 10 CFR 35.290(c)(1), and is able to independently fulfill the radiation safety-related duties as an authorized user for the medical uses under 10 CFR 35.100 and 35.200.

Second Section

Complete one of the following for attestation and signature:

☐ **Authorized User:**

☐ I meet the requirements below, or equivalent Agreement State requirements, as an authorized user for:
☐ 35.190 ☐ 35.290 ☐ 35.390 ☐ 35.390 + generator experience ☐ 35.57 for 35.200 uses

OR

☐ **Residency Program Director:**

☐ I affirm that the attestation represents the consensus of the residency program faculty where at least one faculty member is an authorized user who meets the requirements below or equivalent Agreement State requirements for:

☐ 35.190 ☐ 35.290 ☐ 35.390 ☐ 35.390 + generator experience ☐ 35.57 for 35.200 uses

☐ I affirm that this facility member concurs with the attestation I am providing as program director.

☐ I affirm that the residency training program is approved by the:

☐ Residency Review Committee of the Accreditation Council for Graduate Medical Education

☐ Royal College of Physicians and Surgeons of Canada

☐ Council on Post-Graduate Training of the American Osteopathic Association

☐ I affirm that the residency training program includes training and experience specified in:

☐ 35.190 ☐ 35.290

Name of Facility:

License/Permit Number:

Name of Preceptor or Residency Program Director (Typed or Printed)

Telephone Number

Date

Signature

THE CERTIFICATION BOARD OF NUCLEAR CARDIOLOGY

Incorporated 1996

CERTIFIES THAT

Christopher J. Paa, MD

HAVING MET THE REQUIREMENTS PRESCRIBED BY THIS BOARD FOR PHYSICIANS RESIDING
IN THE UNITED STATES AND HAVING SATISFACTORILY PASSED THE REQUIRED EXAMINATION,
IS HEREBY DESIGNATED

A DIPLOMATE CERTIFIED IN THE SUBSPECIALTY OF

NUCLEAR CARDIOLOGY

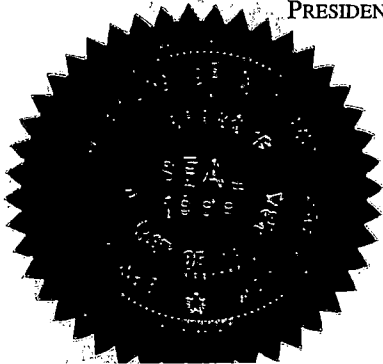
FOR THE PERIOD 2002 THROUGH 2012

Mauro C. Riquena

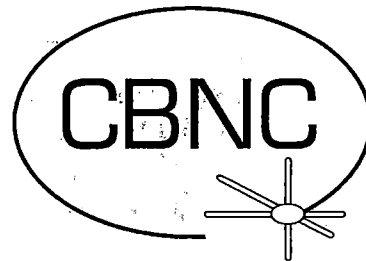
PRESIDENT

R. King

SECRETARY



CERTIFICATE # 2516



OCTOBER 20, 2002

Certification Board of Nuclear Cardiology

Incorporated 1996

Certifies That

Christopher J. Paa, MD

HAVING MET THE RECERTIFICATION REQUIREMENTS PRESCRIBED BY THIS BOARD
AND HAVING SATISFACTORILY PASSED THE REQUIRED EXAMINATION,

IS HEREBY DESIGNATED

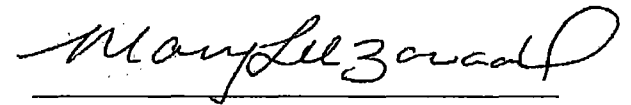
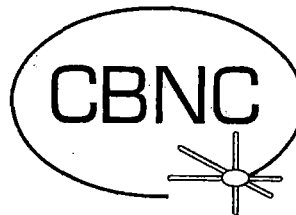
A DIPLOMATE CERTIFIED IN THE SUBSPECIALTY OF

NUCLEAR CARDIOLOGY

VALID: JANUARY 1, 2013 — MARCH 1, 2023



President



Secretary



CERTIFICATE NUMBER: 2516

American Society of Nuclear Cardiology



This is to Certify That

Christopher J Zaa, MD

Has Been Elected a
FULL MEMBER

Robert C. Hawk

President

William DeLong

Secretary



Council for Certification in
Cardiovascular
I | M | A | G | I | N | G
— Expert Imagers • Quality Care —

CARDIOVASCULAR IMAGING CERTIFICATIONS

- Cardiovascular Computed Tomography
- Nuclear Cardiology

Certification recognizes those physicians who have demonstrated knowledge and skills in their respective fields by documenting appropriate training and/or experience and successfully passing a written examination.

Search Results

2 results found

Name/Location	Status	Information
Dr. Christopher J. Paa Sioux Falls, SD CBNC	DIPLOMATE	Certificate Number: 2516 Recertified in Nuclear Cardiology on 12/19/2010. This certification is valid from 1/1/2013-3/1/2023. Certified in Nuclear Cardiology on 10/20/2002. This certification is valid from 10/20/2002-3/1/2013.

[Search Again »](#)

2 results found

[Search Again »](#)

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101 Lakeforest Boulevard, Suite 401, Gaithersburg, MD 20877
Email: administration@ccvvi.org - Tel: 240.631.8151 - Fax: 240.631.8152



School of Medicine
Department of Radiology

To Whom It May Concern

RE: Christopher J. Paa, MD

This letter is to affirm that Christopher J. Paa, MD, has obtained supervised training in nuclear cardiology, which included clinical and work experience in the Department of nuclear medicine/Radiology at Creighton University, Omaha, NE. This experience, and preceptor ship began July 1, 1998 and continued through July 1, 2001.

During the period of this clinical experience, Dr. Paa examined patients and reviewed histories to determine the suitability for these procedures; selected the suitable radiopharmaceutical and dose and was closely involved with the injection of the Radiopharmaceutical. He collaborated with an authorized user in the interpretation of the procedures and used the interpretation in the management of patients.

Dr. Paa also obtained supervised work experience and acquired knowledge of health physics, radiation safety and well familiarized himself with administrative procedures in the Nuclear Medicine Department. The physician also acquired knowledge of the elution of the $^{99m}\text{Tc}/^{99}\text{Mo}$ generator and the quality control tests done in the process. The total number of procedures this physician was involved in the interpretation of was:

- 25 Rest Thallium
- 25 Stress Thallium
- 472 Tc^{99m} Rest/Stress
- 75 Tc^{99m} Studies correlated with angiogram
- 472 EF/Wall Motion with Tc^{99m} SPECT Studies
- 32 Thallium/PET-FDG viability studies

The total hours of work experience during this period was not less than 1000 hours.

Sincerely,

Date: 06/26/2001

Preceptor's Name: Subhash Paknikar MD
Nuclear License of the facility: NUC-01

NUCLEAR MEDICAL EDUCATION PROGRAM

Affidavit of Academic Completion & Competency

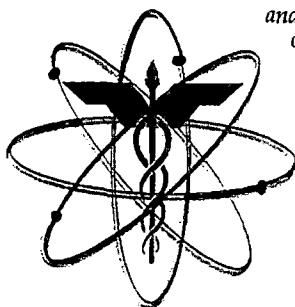
This document is to attest that

Christopher J. Paa, MD.

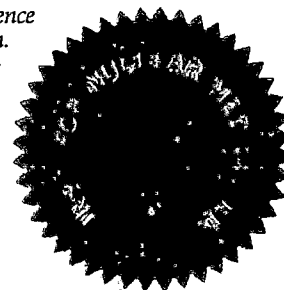
has successfully completed the didactic program

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:*



- 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

22 April 2001
Date Completed

199229
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 II-Comp&Comp 1/00

NUCLEAR MEDICAL EDUCATION PROGRAM

Affidavit of Academic Completion & Competency

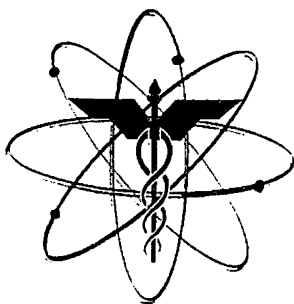
This document is to attest that

Christopher J. Paa, MD.

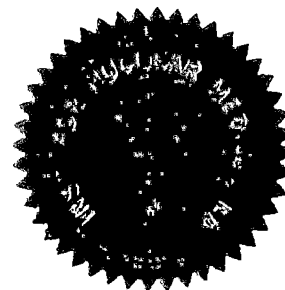
has successfully completed the didactic program

PRINCIPLES OF RADIATION PHYSICS

*and has provided evidence of attendance in this program
and evidence of achieving the objectives of program hours.
This program provides the following levels of accomplishment:*



- 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 W. Rose
Certifying Official

18 April 2001
Date Completed

199190
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 I-Complete 1/00

NUCLEAR MEDICAL EDUCATION PROGRAM

Affidavit of Academic Completion & Competency

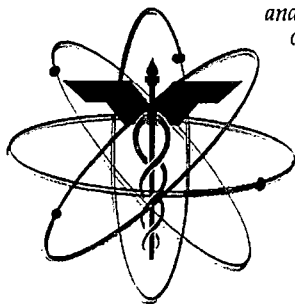
This document is to attest that

Christopher J. Paa, MD.

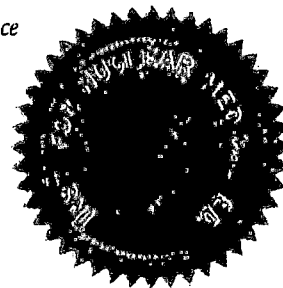
has successfully completed the didactic program

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:



- 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

27 May 2001
Date Completed

199291
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-Comp&Comp 1/00

NUCLEAR MEDICAL EDUCATION PROGRAM

Affidavit of Academic Completion & Competency

This document is to attest that

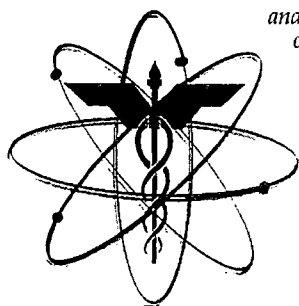
Christopher J. Paa, M.D.

has successfully completed the didactic program

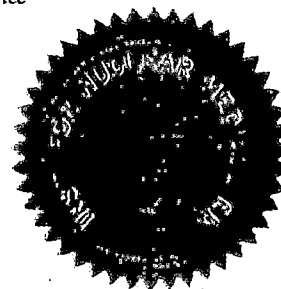
MEDICAL RADIATION PROTECTION

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:



- 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

23 May 2001

Date Completed

199262

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 III-Comp&Comp 1/00



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June 20, 2001

To Whom It May Concern:

This is to advise that from May 14 to May 18, 2001, Christopher Paa, M.D., observed 40 hours of radioisotope handling experience under my immediate and personal supervision. This experience included:

- Preparation of Technetium Kits
- Quality Control of Technetium Kits
- Unit Dose Dispensing
- Molybdenum-99 Generator Elution
- Radiopharmaceutical Calculations
- Radioactive Package Preparation
- Radiation Decontamination

If any question should arise in regard to this training, please do not hesitate to call me.

Sincerely,

Michael D. Jorgensen, Pharm.D., BCNP
Pharmacy Manager
402/553-3776

Christopher J. Paa, MD, FACC
2013 CME HOURS

February 7, 2013
Quarterly Echo Peer Review
Conference
NCH Physicians
Sponsored by Avera McKennan
1 Hour Category 1

April 17, 2013
Cath Conference
MRI Compatible Pacemaker: Revolution
in Pacing or Marketing Gimmick? –
Marc Silver, MD
Sponsored by Avera McKennan
1 Hour Category 1

May 22, 2013
Cath Conference
New Developments in ICU Medicine and
Cardiac Care in the ICU – Edward T.
Zawada, Jr., MD, Medical Director of e-
ICU at Avera McKennan Hospital
Sponsored by Avera McKennan
1 Hour Category 1

June 6, 2013
Echo Peer Review
Echo Case Presentations – NCH
Physicians
Sponsored by Avera McKennan
1 Hour Category 1

September 5, 2013
Quarterly Echo Peer Review
Conference
NCH Physicians
Sponsored by Avera McKennan
1 Hour Category 1

September 11, 2013
Cath Conference
The Wearable Defibrillator – Bridging
the Gap from Definitive Therapy, Randy
Lieberman, MD, Harper University
Hospital, Detroit, MI
Sponsored by Avera McKennan
1 Hour Category 1

October 17, 2013
AveraChart 5.66 Release Training
Sponsored by Avera Health
4.0 Hours Category 1

November 26, 2013
Every Word Counts Teleconference 8
Activity 62669
Avera Health
.75 Hours Category 1

December 4, 2013
Cath Conference
TAVR – The Future of Surgical Heart
Procedures – Ron Miles, MD
Sponsored by Avera McKennan
1 Hour Category 1

December 5, 2013
Quarterly Echo Peer Review
Conference
NCH Physicians
Sponsored by Avera McKennan
1 Hour Category 1

December 11, 2013
Cath Conference
Statewide STEMI Guidelines: Presented
by Gary Myers, of the American Heart
Association
Sponsored by Avera McKennan
1 Hour Category 1

December 18, 2013
Cath Conference
Echo/Cath CTA Case Review
NCH Physicians
Sponsored by Avera McKennan
1 Hour Category 1

Christopher J. Paa, MD, FACC
2014 CME HOURS

March 25, 2014

AveraChart Physician Training for the
Ambulatory Setting 5.66 PP8

2 Hours Category 1

May 9, 2014

19th Annual North Central Heart
Vascular Symposium
Sioux Falls Convention Center

6.8 Hours Category 1

June 5, 2014

Quarterly Echo Peer Review
Conference
NCH Physicians
Sponsored by Avera McKennan

1 Hour Category 1

September 4, 2014

Quarterly Echo Peer Review
Conference
NCH Physicians
Sponsored by Avera McKennan

1 Hour Category 1

September 24, 2014

Cath Conference
Speaker: Mark Gordon
Case Study
Heart Hospital of South Dakota

1 Hour Category 1

November 7, 2014

32nd Annual NCH Cardiac Symposium
Sioux Falls Convention Center
Sponsored by Avera McKennan

4.9 Hours Category 1

December 4, 2014

Quarterly Echo Peer Review
Conference
NCH Physicians
Sponsored by Avera McKennan

1 Hour Category 1

Total = 17.7

Christopher J. Paa, MD, FACC
2015 CME HOURS

January 22, 2015
Echo/Vascular Conference
Peer Review
North Central Heart
Sponsored by Avera McKennan
1 Hour Category 1

Speaker: Verghese Mathew, MD,
FACC, FSCAI
Current Treatment Options for Severe
Aortic Stenosis & TAVR
Heart Hospital of South Dakota
1 Hour Category 1

April 8, 2015
Cath Conference
Speaker: Paul Carpenter, MD
Elevated Troponin Levels Not
Associated with Acute MI
Heart Hospital of South Dakota
1 Hour Category 1

September 17-20, 2015
ASNC 2015 Annual Scientific
Washington, DC
15 hours Category 1

May 1, 2015
20th Annual North Central Heart
Vascular Symposium
Avera McKennan Hospital & University
Health Center
Sioux Falls Convention Center
7.30 Hours Category 1

October 1, 2015
Quarterly Echo Peer Review
Conference
NCH Physicians
Sponsored by Avera McKennan
1 Hour Category 1

May 27, 2015
Cath Conference
Echo Case Presentations – NCH
Physicians
Sponsored by Avera McKennan
1 Hour Category 1

October 28, 2015
Cath Conference
Speaker: Binny Chang, MD
Internal Medicine Resident – USD
Therapeutic Hypothermia After Cardiac
Arrest
Heart Hospital of South Dakota
1 Hour Category 1

June 4, 2015
Echo/Vascular Conference
Peer Review
North Central Heart
Sponsored by Avera McKennan
1 Hour Category 1

November 4, 2015
Society of Diagnostic Medical
Sonography – Advanced Vivid
Technology Course
Sponsored by GE Healthcare
17 Hours Category 1

September 3, 2015
Quarterly Echo Peer Review
Conference
NCH Physicians
Sponsored by Avera McKennan
1 Hour Category 1

December 3, 2015
Quarterly Echo Peer Review
Conference
NCH Physicians
Sponsored by Avera McKennan
1 Hour Category 1

September 9, 2015
Cath Conference

Total = 48.3

Christopher J. Paa, MD, FACC
2016 CME HOURS

March 3, 2016
Echo/Vascular Conference
Peer Review
North Central Heart
Sponsored by Avera McKennan
1 Hour Category 1

May 6, 2016
21st Annual North Central Heart Spring
Vascular Symposium
Avera McKennan Hospital & University
Health Center
Sioux Falls Convention Center
7.0 Hours Category 1

June 2, 2016
Echo/Vascular Conference
Peer Review
North Central Heart
Sponsored by Avera McKennan
1 Hour Category 1

August 23, 2016
Improving Outcome & Reducing Cost w/
CVD Reference Lab Testing
Sponsored by Avera McKennan
1 Hour Category 1

September 1, 2016
Echo/Vascular Conference
Peer Review
North Central Heart
Sponsored by Avera McKennan
1 Hour Category 1

November 3, 2016
Echo/Vascular Conference
Peer Review
North Central Heart
Sponsored by Avera McKennan
1 Hour Category 1

November 4, 2016
34th Annual North Central Heart Fall
Cardiac Symposium
Avera McKennan Hospital & University
Health Center
Sioux Falls Convention Center
6.9 Hours Category 1

Total = 18.9

Christopher J. Paa, MD, FACC
2017 CME HOURS

March 2, 2017
Echo/Vascular Conference
Peer Review
North Central Heart
Sponsored by Avera McKennan
1 Hour Category 1

December 7, 2017
Echo/Vascular Conference
Peer Review
North Central Heart
Sponsored by Avera McKennan
1 Hour Category 1

June 1, 2017
Echo/Vascular Conference
Peer Review
North Central Heart
Sponsored by Avera McKennan
1 Hour Category 1

Total = 40.65

August 31, 2017
Society of Diagnostic Medical
Sonography
Introduction to LUMASON
Sponsored by Bracco Diagnostics Inc
1 Hour Category 1

May 13, 2016 – June 30, 2018
2016 Mayo Echocardiography Review
Course for Boards & Recertification
MOC + Online Video
Rochester, MN
28.75 Hours Category 1

October 5, 2017
Echo/Vascular Conference
Peer Review
North Central Heart
Sponsored by Avera McKennan
1 Hour Category 1

November 2, 2017
35th Annual North Central Heart Fall
Cardiac Symposium
Avera McKennan Hospital & University
Health Center
Sioux Falls Convention Center
6.9 Hours Category 1

Christopher J. Paa, MD, FACC
2018 CME HOURS

March 1, 2018
Echo/Vascular Conference
Peer Review
North Central Heart
Sponsored by Avera McKennan
1 Hour Category 1

June 28, 2018
Echo/Vascular Conference
Peer Review
North Central Heart
Sponsored by Avera McKennan
1 Hour Category 1

October 4, 2018
Echo/Vascular Conference
Peer Review
North Central Heart
Sponsored by Avera McKennan
1 Hour Category 1

December 6, 2018
Echo/Vascular Conference
Peer Review
North Central Heart
Sponsored by Avera McKennan
1 Hour Category 1

Total = 4

Christopher J. Paa, MD, FACC
2019 CME HOURS

March 7, 2019
Echo/Vascular Conference
Peer Review
North Central Heart
Sponsored by Avera McKennan
1 Hour Category 1

June 6, 2019
Echo/Vascular Conference
Peer Review
North Central Heart
Sponsored by Avera McKennan
1 Hour Category 1

October 3, 2019
Echo/Vascular Conference
Peer Review
North Central Heart
Sponsored by Avera McKennan
1 Hour Category 1

October 16, 2019
Cath Conference
Speaker: Paul Olson, MD
Heart Hospital of South Dakota
1 Hour Category 1

November 7, 2019
Echo/Vascular Conference
Peer Review
North Central Heart
Sponsored by Avera McKennan
1 Hour Category 1

November 8, 2019
37th Annual North Central Heart Fall
Cardiac Symposium
Avera McKennan Hospital & University
Health Center
Sioux Falls Convention Center
5.6 Hours Category 1

November 13, 2019
Cath Conference
Speaker: Raymond Allen, MD &
Meghana Helder, MD
Heart Hospital of South Dakota
1 Hour Category 1

December 19, 2019
Cath Conference
Speaker: Jeremy Scott, MD
Heart Hospital of South Dakota
1 Hour Category 1

**AUTHORIZED USER TRAINING, EXPERIENCE AND PRECEPTOR ATTESTATION**
(for uses defined under 35.100, 35.200, and 35.500)
[10 CFR 35.57, 35.190, 35.290, and 35.590]

Name of Proposed Authorized User

Elden Rand, MD

State or Territory Where Licensed

South Dakota

Requested Authorization(s) (check all that apply)

- ☐ 35.100 Uptake, dilution, and excretion studies ☒ 35.200 Imaging and localization studies
☐ 35.500 Sealed sources for diagnosis (specify device) _____

PART I -- TRAINING AND EXPERIENCE

(Select one of the three methods below)

* Training and Experience, including board certification, must have been obtained within the 7 years preceding the date of application or the individual must have obtained related continuing education and experience since the required training and experience was completed. Provide dates, duration, and description of continuing education and experience related to the uses checked above.

☒ **1. Board Certification**

- a. Provide a copy of the board certification.
- b. For a board certification issued on or before October 24, 2005 that is listed in 10 CFR 35.57(b)(2)(i), provide the following:
- (i) Documentation that the individual performed each use checked above on or before October 24, 2005.
 - (ii) Dates, duration, and description of continuing education and experience within the past seven years for each use checked above.
- c. Stop here.

☐ **2. Current 35.390 Authorized User Seeking Additional 35.290 Authorization**

- a. Authorized user on Materials License _____ meeting 10 CFR 35.390, 10 CFR 35.57 for 35.300 uses, or equivalent Agreement State requirements seeking authorization for 35.290.
- b. Supervised Work Experience.
(If more than one supervising individual is necessary to document supervised work experience, provide multiple copies of this section.)

Description of Experience	Location of Experience/License or Permit Number of Facility	Clock Hours	Dates of Experience*
Eluting generator systems appropriate for the preparation of radioactive drugs for imaging and localization studies, measuring and testing the eluate for radionuclidic purity, and processing the eluate with reagent kits to prepare labeled radioactive drugs			
Total Hours of Experience: <input type="text"/>			
Supervising Individual	License/Permit Number listing supervising individual as an authorized user or authorized nuclear pharmacist		

Supervisor meets the requirements below, or equivalent Agreement State requirements (check all that apply).

- ☐ 35.290 ☐ 35.390 + generator experience in 32.290(c)(1)(ii)(G) ☐ 35.55 ☐ 35.57 for 35.200 uses
- c. If board certified, provide a copy of the certificate and stop here. If not board certified, skip to and complete Part II Preceptor Attestation.

AUTHORIZED USER TRAINING, EXPERIENCE AND PRECEPTOR ATTESTATION
(for uses defined under 35.100, 35.200, and 35.500)
[10 CFR 35.57, 35.190, 35.290, and 35.590](continued)☐ **3. Training and Experience for Proposed Authorized User**

a. Classroom and Laboratory Training.

Description of Training	Location of Training	Clock Hours	Dates of Training*
Radiation physics and instrumentation			
Radiation protection			
Mathematics pertaining to the use and measurement of radioactivity			
Chemistry of byproduct material for medical use <i>(not required for 35.590)</i>			
Radiation biology			
Total Hours of Training: <input type="text"/>			

b. Supervised Work Experience (completion of this table is not required for 35.590).
(If more than one supervising individual is necessary to document supervised work experience, provide multiple copies of this section.)

Supervised Work Experience		Total Hours of Experience:	<input type="text"/>
Description of Experience Must Include:	Location of Experience/License or Permit Number of Facility	Confirm	Dates of Experience*
Ordering, receiving, and unpacking radioactive materials safely and performing the related radiation surveys		<input type="checkbox"/> Yes <input type="checkbox"/> No	
Performing quality control procedures on instruments used to determine the activity of dosages and performing checks for proper operation of survey meters		<input type="checkbox"/> Yes <input type="checkbox"/> No	

AUTHORIZED USER TRAINING, EXPERIENCE AND PRECEPTOR ATTESTATION
(for uses defined under 35.100, 35.200, and 35.500)
[10 CFR 35.57, 35.190, 35.290, and 35.590](continued)

3. Training and Experience for Proposed Authorized User (continued)

b. Supervised Work Experience. (continued)

Description of Experience Must Include:	Location of Experience/License or Permit Number of Facility	Confirm	Dates of Experience*
Calculating, measuring, and safely preparing patient or human research subject dosages		<input type="checkbox"/> Yes <input type="checkbox"/> No	
Using administrative controls to prevent a medical event involving the use of unsealed byproduct material		<input type="checkbox"/> Yes <input type="checkbox"/> No	
Using procedures to contain spilled byproduct material safely and using proper decontamination procedures		<input type="checkbox"/> Yes <input type="checkbox"/> No	
Administering dosages of radioactive drugs to patients or human research subjects		<input type="checkbox"/> Yes <input type="checkbox"/> No	
Eluting generator systems appropriate for the preparation of radioactive drugs for imaging and localization studies, measuring and testing the eluate for radionuclidic purity, and processing the eluate with reagent kits to prepare labeled radioactive drugs		<input type="checkbox"/> Yes <input type="checkbox"/> No*	

Supervising Individual

License/Permit Number listing supervising individual as an
authorized user or an authorized nuclear pharmacist for generator
training

Supervisor meets the requirements below, or equivalent Agreement State requirements (*check one*).

- ☐ 35.190 ☐ 35.290 ☐ 35.390 ☐ 35.390 + generator experience in 35.290(c)(1)(ii)(G)
☐ 35.55 ☐ 35.57 for 35.200 uses

*Not required for 10 CFR 35.100 use.

c. For 35.590 only, provide documentation of training on use of the device.

Device	Type of Training	Location and Dates

d. For 35.500 uses only, stop here. For 35.100 and 35.200 uses, skip to and complete Part II Preceptor Attestation.

AUTHORIZED USER TRAINING, EXPERIENCE AND PRECEPTOR ATTESTATION
(for uses defined under 35.100, 35.200, and 35.500)
[10 CFR 35.57, 35.190, 35.290, and 35.590](continued)

PART II – PRECEPTOR ATTESTATION

Note: This part must be completed by the individual's preceptor. The preceptor does not have to be the supervising individual as long as the preceptor provides, directs, or verifies training and experience required. If more than one preceptor is necessary to document experience, obtain a separate preceptor statement from each. (Not required to meet training requirements in 35.590)

By checking the boxes below, the preceptor is not attesting to the individual's "general clinical competency."

First Section

Check one of the following for each use requested:

For 35.190

☐ I attest that _____ has satisfactorily completed the 60 hours of training and

Name of Proposed Authorized User

experience, including a minimum of 8 hours of classroom and laboratory training, required by 10 CFR 35.190(c)(1), and is able to independently fulfill the radiation safety-related duties as an authorized user for the medical uses authorized under 10 CFR 35.100.

For 35.290

☐ I attest that _____ has satisfactorily completed the 700 hours of training

Name of Proposed Authorized User

and experience, including a minimum of 80 hours of classroom and laboratory training, required by 10 CFR 35.290(c)(1), and is able to independently fulfill the radiation safety-related duties as an authorized user for the medical uses under 10 CFR 35.100 and 35.200.

Second Section

Complete one of the following for attestation and signature:

☐ Authorized User:

☐ I meet the requirements below, or equivalent Agreement State requirements, as an authorized user for:

☐ 35.190 ☐ 35.290 ☐ 35.390 ☐ 35.390 + generator experience ☐ 35.57 for 35.200 uses

OR

☐ Residency Program Director:

☐ I affirm that the attestation represents the consensus of the residency program faculty where at least one faculty member is an authorized user who meets the requirements below or equivalent Agreement State requirements for:

☐ 35.190 ☐ 35.290 ☐ 35.390 ☐ 35.390 + generator experience ☐ 35.57 for 35.200 uses

☐ I affirm that this facility member concurs with the attestation I am providing as program director.

☐ I affirm that the residency training program is approved by the:

☐ Residency Review Committee of the Accreditation Council for Graduate Medical Education

☐ Royal College of Physicians and Surgeons of Canada

☐ Council on Post-Graduate Training of the American Osteopathic Association

☐ I affirm that the residency training program includes training and experience specified in:

☐ 35.190 ☐ 35.290

Name of Facility:

License/Permit Number:

Name of Preceptor or Residency Program Director (Typed or Printed)

Telephone Number

Date

Signature

Certification Board of Nuclear Cardiology

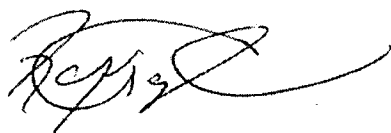
Incorporated 1996

Certifies that

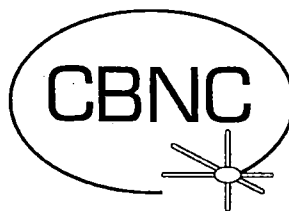
Elden R. Rand, MD

HAVING MET THE REQUIREMENTS PRESCRIBED BY THIS BOARD
FOR PHYSICIANS TRAINED IN THE UNITED STATES
AND HAVING SATISFACTORILY PASSED THE REQUIRED EXAMINATION,
IS HEREBY DESIGNATED
A DIPLOMATE CERTIFIED IN THE SUBSPECIALTY OF
NUCLEAR CARDIOLOGY

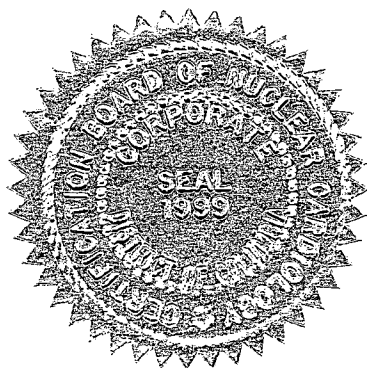
FOR THE PERIOD 2007 - 2017



President



Secretary



CERTIFICATE NUMBER: 5702



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Directory of Certificants

The result of a search of the APCA Directory of Certificants serves as a primary source verification of certifications by APCA. It is the responsibility of an employer to confirm with sufficient identifiers that an individual, whose certifications are being reviewed, is the same person reported in the directory.

If you would like to verify an APCA POCUS certificate or certification please click [here](#).

The APCA Directory of Certificants provides information regarding status in the following categories:

Active Certificant: An individual who: (1) has successfully passed the appropriate examination(s), thereby earning a certification with official notification by APCA; and (2) is in compliance with continuing competency and/or annual renewal fee requirements.

ID Number:	Country: <input type="text" value="ANY"/>
Last Name/Surname: <input type="text" value="Rand"/>	State/Province: <input type="text" value="ANY"/>
First/Given Name: <input type="text" value="Elden"/>	

Required Credentials:

<input type="checkbox"/> RDMS	<input type="checkbox"/> AB	<input type="checkbox"/> BR	<input type="checkbox"/> FE	<input type="checkbox"/> NE	<input type="checkbox"/> OB/GYN	<input type="checkbox"/> PS
<input type="checkbox"/> RDCS	<input type="checkbox"/> AE	<input type="checkbox"/> FE	<input type="checkbox"/> PE			
<input type="checkbox"/> RVT	<input type="checkbox"/> VT					
<input type="checkbox"/> RPVI	<input type="checkbox"/> AB LATAM					
<input type="checkbox"/> RMSK	<input type="checkbox"/> OB/GIN LATAM					
<input type="checkbox"/> RMSKS						
<input type="checkbox"/> RPVI-China						
<input type="checkbox"/> Midwife Sonography Certificate						
<input type="checkbox"/> CBCCT						
<input type="checkbox"/> CBNC						
<input type="checkbox"/> CBCMR						

[Click icon to print search results](#)

The information displayed below constitutes the current status with APCA as of 02/17/2020, 12:00 PM US eastern time (5:00 PM UTC/GMT).

1 match found.

RAND, ELDEN
USA, SD
CBCCT, Diplomate
Valid Until: 12/31/2028



ALLIANCE FOR PHYSICIAN CERTIFICATION & ADVANCEMENT

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1	2	3	4	5
Dissatisfied			Satisfied	



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DEPARTMENT OF THE ARMY
BROOKE ARMY MEDICAL CENTER
3851 ROGER BROOKE DRIVE
FORT SAM HOUSTON, TEXAS 78234-6200

REPLY TO
ATTENTION OF

8/10/07

Certification Board of Nuclear Cardiology
19562 Club House Road
Montgomery Village MD 20886-3002

Dr. Elden R. Rand has completed a nuclear cardiology training program that meets the requirements for Level 2 as outlined in the *ACCF/ASNC COCATS Guidelines for Training in Nuclear Cardiology, revised 2006* within an accredited fellowship program.

Dr. Elden R. Rand completed Level 2 nuclear cardiology training between the dates of 7/1/2005 and 8/8/2007 .

I attest that Dr. Elden R. Rand is competent to independently function as an authorized user under NRC 10 CFR 35.200 uses.

☐ The above-named applicant completed a minimum of 80 hours of classroom and laboratory training that meets the Nuclear Regulatory Commission (NRC) requirements as an INTEGRAL part of his/her fellowship/residency program.

☒ The above-named applicant completed a minimum of 80 hours of classroom and laboratory training that meets the NRC requirements external to his/her fellowship program.

☐ The above-named applicant is an Authorized User listed on a current Radioactive Materials Licence (RAM).

Sincerely,

(Signature Required)

Name of Preceptor: Won S. Song, MD

Title/Relationship to Applicant: Nuclear Medicine Fellowship Program Director

NRC/Agreement State License Number (on RAM License): 42-01368-01

ELDEN R. RAND, MD
2013 CME

January 23, 2013
Cath Conference
Cath, CTA Case Presentations – NCH
Physicians
Sponsored by Avera McKennan
1 Hour Category 1

February 7, 2013
Quarterly Echo Peer Review
Conference
NCH Physicians
Sponsored by Avera McKennan
1 Hour Category 1

March 13, 2013
Cath Conference
Echo Case Presentations – NCH
Physicians
Sponsored by Avera McKennan
1 Hour Category 1

March 6, 2013
NCH Cath Conference
Are Fish Oils Still Cardioprotective? –
Bill Harris, PhD of OmegaQuant LLC
Sponsored by Avera McKennan
1 Hour Category 1

April 3, 2013
NCH Cath Conference
Echo Case Presentations – NCH
Physicians
Sponsored by Avera McKenna
1 Hour Category 1

April 10, 2013
Cath Conference
Cath, CTA Case Presentations – NCH
Physicians
Sponsored by Avera McKennan
1 Hour Category 1

May 8, 2013
NCH Cath Conference
Anticoagulants & New Upcoming
Cardiac Drugs – Thomas Babb, PharmD

Sponsored by Avera McKennan
1 Hour Category 1

May 22-31, 2013
2013 Internal Medicine Intensive
Certification Board Review Course
MedStudy Continuing Education
Program
Dallas, TX
72 Hours Category 1

June 6, 2013
Echo Peer Review
Echo Case Presentations – NCH
Physicians
Sponsored by Avera McKennan
1 Hour Category 1

June 29-July 2, 2013
24th Annual Scientific Sessions
The American Society of
Echocardiography
Minneapolis Convention Center
23.0 Hours Category 1

July 14, 2013
Do No Harm
Prime Education Inc.
1 Hour Category 1

September 5, 2013
Quarterly Echo Peer Review
Conference
NCH Physicians
Sponsored by Avera McKennan
1 Hour Category 1

October 8, 2013
AveraChart 5.66 Release Training
Sponsored by Avera Health
4.0 Hours Category 1

November 19, 2013
2012 Update in Cardiovascular Disease
Module – American Board of Internal
Medicine

ELDEN R. RAND, MD
2013 CME

The Perelman School of Medicine at the
University of Pennsylvania
5 Hours Category 1

November 6, 2013
Cath Conference
Echo Case Presentations – NCH
Physicians
Sponsored by Avera McKennan
1 Hour Category 1

December 4, 2013
Cath Conference
TAVR – The Future of Surgical Heart
Procedures – Ron Miles, MD
Sponsored by Avera McKennan
1 Hour Category 1

December 5, 2013
Quarterly Echo Peer Review
Conference
NCH Physicians
Sponsored by Avera McKennan
1 Hour Category 1

December 14, 2013
2013 Update in Cardiovascular Disease
Module – American Board of Internal
Medicine
The Perelman School of Medicine at the
University of Pennsylvania
5 Hours Category 1

December 17, 2013
2011 Update in Cardiovascular Disease
Module – American Board of Internal
Medicine
The Perelman School of Medicine at the
University of Pennsylvania
5 Hours Category 1

December 17, 2013
2011 Update in Geriatric Medicine
Module – American Board of Internal
Medicine

The Perelman School of Medicine at the
University of Pennsylvania
5 Hours Category 1

December 20, 2013
2011 Update in Clinical Cardiac
Electrophysiology Module – American
Board of Internal Medicine
The Perelman School of Medicine at the
University of Pennsylvania
5 Hours Category 1

December 21, 2013
2011 Update in Internal Medicine
Module – American Board of Internal
Medicine
The Perelman School of Medicine at the
University of Pennsylvania
5 Hours Category 1

December 21, 2013
2011 Update in Critical Care Medicine
Module – American Board of Internal
Medicine
The Perelman School of Medicine at the
University of Pennsylvania
5 Hours Category 1

December 27, 2013
2012 Update in Internal Medicine
Module – American Board of Internal
Medicine
The Perelman School of Medicine at the
University of Pennsylvania
5 Hours Category 1

December 27, 2013
Communication – Recent Visit Module –
American Board of Internal Medicine
The Perelman School of Medicine at the
University of Pennsylvania
20 Hours Category 1

ELDEN R. RAND, MD
2014 CME

January 16-19, 2014
SCMR 17th Annual Scientific Sessions
The University of Minnesota
Hilton New Orleans Riverside
New Orleans, LA
27 Hours Category 1

February 14, 2014
Review of Atrial Septal Defects – Elden
Rand, MD Presenter for the
Siouxland Radiology Techs/Students
Avera Heart Hospital Classroom
Sponsored by Avera McKennan
1 Hour Category 1

March 6, 2014
Quarterly Echo Peer Review
Conference
NCH Physicians
Sponsored by Avera McKennan
1 Hour Category 1

April 10, 2014
AveraChart Physician Training for the
Acute Setting: 5.66 PP8 Release
2 Hours Category 1

May 21, 2014
Cath Conference: Speaker
Dayna Groskreutz, MD, Pulmonary
Hypertension Therapies in WHO II
Group PH: Systolic/Diastolic
Dysfunction, Valve Disease, Etc.
Heart Hospital of South Dakota
1 Hour Category 1

June 2-13, 2014
AMP 101 Fundamentals of Aerospace
Medicine @Dayton, OH
The Office of the Surgeon General,
USAF
46.25 AMA PRA Category 1 Credits

September 4, 2014
Quarterly Echo Peer Review
Conference
NCH Physicians
Sponsored by Avera McKennan
1 Hour Category 1

September 10, 2014
Cath Conference
Speaker: Dayna Groskreutz, MD,
Pulmonary Hypertension Therapies
in WHO Group I and Right Heart
Catheterization
Heart Hospital of South Dakota
1 Hour Category 1

September 11, 2014
Legal Medicine Curriculum: Avoiding
Malpractice Lawsuits
Law & Medicine Media, LLC
lawandmed.com
2 Hours Category 1

September 24, 2014
Cath Conference
Speaker: Mark Gordon
Case Study
Heart Hospital of South Dakota
1 Hour Category 1

September 29-October 3, 2014
ISMRM
Cardiovascular MR Practicum
Durham, North Carolina
30 Hours Category 1

October 14, 2014
LIGHT Program
Presented by Dr Dike
Drummond
North Central Heart
Sponsored by Avera McKennan
1.5 Hours Category 1

ELDEN R. RAND, MD
2014 CME

November 10, 2014
American College of Cardiology
Foundation
SAP-Valvular Heart Disease
1.5 Hours Category 1

November 11, 2014
American College of Cardiology
Foundation
SAP-General Principles
4.75 Hours Category 1

November 12, 2014
American College of Cardiology
Foundation
JACC Journals-Value of Cardiac MR for
the Differential Diagnosis of Cardiac
Masses
1 Hours Category 1

November 17, 2014
American College of Cardiology
Foundation
JACC Journals-Use of Cardiac MRI in
Chronic Kidney Disease
1 Hours Category 1

November 19, 2014
American College of Cardiology
Foundation
SAP-Assessment of CAD with
Integrated Cardiac PET-CT
0.25 Hours Category 1

November 19, 2014
American College of Cardiology
Foundation
SAP-Nuclear/CT Hybrid Devices
Integration: Case 1
0.25 Hours Category 1

November 19, 2014
American College of Cardiology
Foundation
SAP-Complex CHD and Postoperative
Evaluation

0.75 Hours Category 1

November 19, 2014
American College of Cardiology
Foundation
SAP-CT Protocols for CHD
0.25 Hours Category 1

November 19, 2014
American College of Cardiology
Foundation
SAP-Nuclear/CT Hybrid Devices
Integration: Case 3
0.25 Hours Category 1

November 19, 2014
American College of Cardiology
Foundation
SAP-Evaluation of Ventricular Anatomy
and Function
0.50 Hours Category 1

November 19, 2014
American College of Cardiology
Foundation
SAP-Atrial Anatomy and Function
0.75 Hours Category 1

November 19, 2014
American College of Cardiology
Foundation
SAP-Nuclear/CT Hybrid Devices
Integration: Case 4
0.25 Hours Category 1

November 19, 2014
American College of Cardiology
Foundation
SAP-Assessment of CAD with
Integrated Cardiac PET-CT
0.25 Hours Category 1

November 21, 2014
American College of Cardiology
Foundation

ELDEN R. RAND, MD
2014 CME

Meetings on Demand-Myocardial
Perfusion/Function SPECT and PET
7.5 Hours Category 1

November 21, 2014
American College of Cardiology
Foundation
SAP-Incidental Cardiovascular Findings
2.5 Hours Category 1

November 21, 2014
American College of Cardiology
Foundation
SAP-Cardiac CT and Atrial Fibrillation
0.50 Hours Category 1

November 21, 2014
American College of Cardiology
Foundation
SAP-Use of Cardiac CT in Management
of Patients with Arrhythmias
0.50 Hours Category 1

November 21, 2014
American College of Cardiology
Foundation
SAP-Incidental Non-Cardiovascular
Findings
1.25 Hours Category 1

November 21, 2014
American College of Cardiology
Foundation
SAP—CT-EP Applications: Case 1
0.25 Hours Category 1

November 21, 2014
American College of Cardiology
Foundation
SAP—Infarcts and Viability
0.25 Hours Category 1

December 2, 2014
American College of Cardiology
Foundation

Serial Myocardial Perfusion Imaging-
Defining a Significant Change and
Targeting Management Decisions
1 Hour Category 1

December 2, 2014
American College of Cardiology
Foundation
Serial Myocardial Perfusion Imaging-
Defining a Significant Change and
Targeting Management Decisions
1 Hour Category 1

December 4, 2014
Echo/Vascular Conference
Peer Review
North Central Heart
Sponsored by Avera McKennan
1 Hour Category 1

December 9, 2014
American College of Cardiology
Foundation
ASNC Multimodality Appropriate Use
Criteria Guidelines Webinar
1.25 Hour Category 1

ELDEN R. RAND, MD
2015 CME

April 8, 2015
Cath Conference
Speaker: Paul Carpenter, MD
Elevated Troponin Levels Not
Associated with Acute MI
Heart Hospital of South Dakota
1 Hour Category 1

May 22, 2015
ACC EchoSAP 7: 5: Congenital Heart
Diseases – New Module on ACHD
11.75 hours Category 1

May 25, 2015
ACC EchoSAP 7: 14: Percutaneous
Structural Heart Interventions
3 hours Category 1

May 25, 2015
ACC EchoSAP 7: 2: Applications
5.25 hours Category 1

June 4, 2015
Echo/Vascular Conference
Peer Review
North Central Heart
Sponsored by Avera McKennan
1 Hour Category 1

September 3, 2015
Quarterly Echo Peer Review
Conference
NCH Physicians
Sponsored by Avera McKennan
1 Hour Category 1

September 9, 2015
Cath Conference
Speaker: Verghese Mathew, MD,
FACC, FSCAI
Current Treatment Options for Severe
Aortic Stenosis & TAVR
Heart Hospital of South Dakota
1 Hour Category 1

September 18, 2015
33rd Annual North Central Heart Fall
Cardiac Symposium
Avera McKennan Hospital & University
Health Center
Sioux Falls Convention Center
7.25 Hours Category 1

October 28, 2015
Cath Conference
Speaker: Binny Chang, MD
Internal Medicine Resident – USD
Therapeutic Hypothermia After Cardiac
Arrest
Heart Hospital of South Dakota
1 Hour Category 1

December 3, 2015
Quarterly Echo Peer Review
Conference
NCH Physicians
Sponsored by Avera McKennan
1 Hour Category 1

ELDEN R. RAND, MD
2016 CME

April 7, 2016
Echo/Vascular Conference
North Central Heart
Sponsored by Avera McKennan
1 Hour Category 1

May 5, 2016
Echo/Vascular Conference
North Central Heart
Sponsored by Avera McKennan
1 Hour Category 1

May 6, 2016
21st Annual North Central Heart Spring
Vascular Symposium
Avera McKennan Hospital & University
Health Center
Sioux Falls Convention Center
7.0 Hours Category 1

June 22, 2016
8th Annual SCCT Comprehensive Board
Review & Update of Cardiovascular CT
Orlando, FL
15 Hour Category 1

September 1, 2016
Echo/Vascular Conference
Peer Review
North Central Heart
Sponsored by Avera McKennan
1 Hour Category 1

November 3, 2016
Echo/Vascular Conference
Peer Review
North Central Heart
Sponsored by Avera McKennan
1 Hour Category 1

December 10, 2016
American Society of Nuclear Cardiology
Enhancing Your Nuclear Cardiology
Practice SPECT The Workhouse of
Cardiac Imaging
1 Hour Category 1

ELDEN R. RAND, MD
2017 CME

March 2, 2017
Echo/Vascular Conference
Peer Review
North Central Heart
Sponsored by Avera McKennan
1 Hour Category 1

September 13-14, 2017
ASNC
2017 Nuclear Cardiology Board
Preparation Course
Kansas City, MO
19 Hours Category 1

March 11, 2017
ACCF
Self Assessment Programs – ACC's
Maintenance of Certification Guidelines
Module 4: 2014
ACC/AHA/AATS/PCNA/SCAI/STS
Focused Update of the Guideline for the
Diagnosis & Mngmnt of PT's w/ Stable
Ischemic Heart Disease
1.5 Hours Category 1

Total = 100.75

June 1, 2017
Echo/Vascular Conference
Peer Review
North Central Heart
Sponsored by Avera McKennan
1 Hour Category 1

June 2-6, 2017
American Society of Echocardiography
28th Annual Scientific Sessions
Baltimore, MD
27.50 Hours Category 1

June 3-21, 2017
University of Nebraska Medical Center
Nuclear Cardiology
15 Hours Category 1

July 9, 2017
Society of Cardiovascular Computer
Tomography Online Course
35.75 Hours Category 1

ELDEN R. RAND, MD
2018 CME

November 2, 2018
36th Annual North Central Heart Fall
Cardiac Symposium
Avera McKennan Hospital & University
Health Center
Sioux Falls Convention Center
6.4 Hours Category 1

ELDEN R. RAND, MD
2019 CME

February 6-7, 2019
Society for Cardiovascular Magnetic
Resonance
CMR Cert Exam Prep Course
Bellevue, WA
11.50 Hours Category 1

February 6-9, 2019
Society for Cardiovascular Magnetic
Resonance
22nd Annual Scientific Sessions
Bellevue, WA
9.25 Hours Category 1

February 14, 2019
ACCF
2019 Leadership Forum
Cardiovascular Business 101: Back to
Basics
Orlando, FL
5.25 Hours Category 1

March 7, 2019
Echo/Vascular Conference
Peer Review
North Central Heart
Sponsored by Avera McKennan
1 Hour Category 1

June 6, 2019
Echo/Vascular Conference
Peer Review
North Central Heart
Sponsored by Avera McKennan
1 Hour Category 1



ACKNOWLEDGEMENT - RECEIPT OF CORRESPONDENCE

Name and Address of Applicant and/or Licensee

Michelle White, BA, CNMT
Radiation Safety Officer
Avera McKennan/Nuclear Medicine
1325 S. Cliff Ave
Sioux Falls, SD 57117-5045

Date

06/10/2020

License Number(s)

40-16571-02

Mail Control Number(s)

621151

Licensing and/or Technical Reviewer or Branch

C. Hill

This is to acknowledge receipt of your: ☒ Letter and/or ☐ Application Dated: 06/05/2020

The initial processing, which included an administrative review, has been performed.

☒ Amendment ☐ Termination ☐ New License ☐ Renewal

☐ There were no administrative omissions identified during our initial review.

☐ This is to acknowledge receipt of your application for renewal of the material(s) license identified above. Your application is deemed timely filed, and accordingly, the license will not expire until final action has been taken by this office.

☐ Your application for a new NRC license did not include your taxpayer identification number. Please complete and submit NRC Form 531, Request for Taxpayer Identification Number, located at the following link: <http://www.nrc.gov/reading-rm/doc-collections/forms/nrc531.pdf>
Follow the instructions on the form for submission.

☐ The following administrative omissions have been identified:

Your application has been assigned the above listed MAIL CONTROL NUMBER. When calling to inquire about this action, please refer to this control number. Your application has been forwarded to a technical reviewer. Please note that the technical review, which is normally completed within 180 days for a renewal application (90 days for all other requests), may identify additional omissions or require additional information. If you have any questions concerning the processing of your application, our contact information is listed below:

Region IV
U. S. Nuclear Regulatory Commission
DNMS/NMSB - B
1600 E. Lamar Boulevard
Arlington, TX 76011-4511
(817) 200-1103 or (817) 200-1140

BETWEEN:

Accounts Receivable/Payable
and
Regional Licensing Branches

[FOR ARPB USE]
INFORMATION FROM WBL

Program Code: 04826
Status Code: Pending Amendment
Fee Category: 7C(1)
Exp. Date: 03/31/2035
Fee Comments:
Decom Fin Assur Req: N

License Fee Worksheet - License Fee Transmittal

A. REGION

1. APPLICATION ATTACHED

Applicant/Licensee: Avera McKennan/Nuclear Medicine
Received Date: 06/05/2020
Docket Number: 3039216
Mail Control Number: 621151
License Number: 40-16571-02
Action Type: Amendment

2. FEE ATTACHED

Amount: N/A

Check No.: N/A

3. COMMENTS

Signed: Carol L. Hill

Date: 06/10/20

B. LICENSE FEE MANAGEMENT BRANCH (Check when milestone 03 is entered / /)

1. Fee Category and Amount: _____

2. Correct Fee Paid. Application may be processed for:

Amendment: _____

Renewal: _____

License: _____

3. OTHER _____

Signed: _____

Date: _____

Agency: NRC

WBL WORKSHEET

DOCKET NUMBER: 3039216	LICENSE NUMBER: 40-16571-02	STATUS: Pending Amendment
MAIL CONTROL NUMBER: 621151	RECEIPT DATE: 06/05/2020	ACTION TYPE: Amendment
DUE DATE: 09/03/2020	INST. CODE: 16571	LICENSE REGION: Region 4
LICENSE TYPE: 30	ENTITY TYPE: C	LICENSE GROUP: Medical
ISSUE DATE:	ORIGINAL DATE: 03/10/2020	EXPIRATION DATE: 03/31/2035
DECOMMISSIONING CATEGORY: Group 1	LAST ISSUE DATE:	
LICENSEE NAME: Avera McKennan/Nuclear Medicine	DECOM FIN ASSUR REQD: N SUBM: N	
MAILING ADDRESS LINE1: 1325 South Cliff Avenue	CONT PLAN REQD: N	APPRV: N
MAILING ADDRESS LINE 2:		
CITY: Sioux Falls	STATE: SD	ZIP: 57117-5045
CONTACT PERSON: PREFIX:	FIRST NAME: Michelle	MIDDLE INITIAL:
LAST NAME: White	SUFFIX:	
JOB TITLE:	PHONE: 605-322-7155 FAX:	EMAIL: michelle.white@avera.c
BILLING ADDRESS LINE 1:		
BILLING ADDRESS LINE 2:		
CITY:	STATE: South Dakota	ZIP:
BILLING CONTACT PERSON: FIRST NAME:	MIDDLE INITIAL:	LAST NAME:
PHONE:	EMAIL:	FAX:
PRIMARY PGM CODE: 04826	SECONDARY PGM CODE: 04810,04820	
INSPECTION REGION: Region 4	PRIORITY: 2	
RSO: PREFIX:	FIRST NAME: Michelle	MIDDLE INITIAL: LAST NAME White
SUFFIX: BA, CNMT	RSO JOB TITLE: Radiation Safety Officer	
RSO PHONE: 605-322-7155	RSO FAX:	RSO EMAIL: michelle.white@avera.org
STATES WHERE USE IS AUTHORIZED:	0- ALL LISTED STATES 1- SAME AS STATE IN ADDRESS 2- ALL STATES 3- NON-AGREEMENT-STATES	
AUTHORIZED STATES (USE ONLY IF ABOVE IS ZERO):		