

THE HEART GROUP

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LANCASTER, PA 17603-2962
(717) 390-4651
FAX (717) 481-7397
www.theheartgroup.com

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JENNIFER WARDLE, C.R.N.P.
ALEXANDRA WYANT, C.R.N.P.
BRENDA YOUNG, C.R.N.P.

NMS82

February 23, 2007

RECEIVED
REGION 1
2007 MAR -5 PM 12: 58

Mr. Dennis R. Lawyer
United States Nuclear Regulatory Commission
Region 1
475 Allendale Road
King of Prussia, PA 19406-1415

Dear Mr. Lawyer:

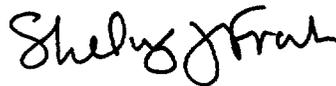
03034-622

RE: Material License No. 37-30426-01

The Heart Group is requesting to add Ajay R. Marwaha, M.D. to the group's Materials License. Enclosed is Dr. Marwaha's Training and Experience and Preceptor Attestation certifying his training in an approved Cardiology Fellowship Program at Geisinger Medical Center and a copy of his Board Certification in Nuclear Cardiology.

Should you have any questions, please call me directly at 717-481-7391. Thank you for your time and consideration of this request.

Sincerely,



Shelvy J. Frank
VP & Chief Operating Officer

Enclosures

Cc: Department of Environmental Protection

140171
NMS82/REG1 MATERIALS-002

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

APPROVED BY OMB: NO. 3150-0120
EXPIRES: 10/31/2008

Name of Proposed Authorized User

AJAY R. MARWAHA

State or Territory Where Licensed

PA

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. If using only 35.500 materials, stop here. If using 35.100 and 35.200 materials, skip to and complete Part II Preceptor Attestation.

2. Current 35.390 Authorized User Seeking Additional 35.290 Authorization

- a. Authorized user on Materials License _____ meeting 10 CFR 35.390 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:

Supervising Individual

License/Permit Number listing supervising individual as an authorized user

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)

AUTHORIZED USER TRAINING AND EXPERIENCE AND PRECEPTOR ATTESTATION (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:			

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.)

Description of Experience	Location of Experience/License or Permit Number of Facility	Clock Hours	Dates of Experience*
Ordering, receiving, and unpacking radioactive materials safely and performing the related radiation surveys			
Performing quality control procedures on instruments used to determine the activity of dosages and performing checks for proper operation of survey meters			
Calculating, measuring, and safely preparing patient or human research subject dosages			

AUTHORIZED USER TRAINING AND EXPERIENCE AND PRECEPTOR ATTESTATION (continued)

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

b. Supervised Work Experience. (continued)

Description of Experience	Location of Experience/License or Permit Number of Facility	Clock Hours	Dates of Experience*
Using administrative controls to prevent a medical event involving the use of unsealed byproduct material			
Using procedures to contain spilled byproduct material safely and using proper decontamination procedures			
Administering dosages of radioactive drugs to patients or human research subjects			
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:

Supervising Individual

Richard J Butcher MD

License/Permit Number listing supervising individual as an authorized user

37-01421-01

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)

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 AND EXPERIENCE AND PRECEPTOR ATTESTATION (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)

First Section

Check one of the following for each use requested:

For 35.190

Board Certification

I attest that _____ has satisfactorily completed the requirements in
Name of Proposed Authorized User

10 CFR 35.190(a)(1) and has achieved a level of competency sufficient to function independently as an authorized user for the medical uses authorized under 10 CFR 35.100.

OR

Training and Experience

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 has achieved a level of competency sufficient to function independently as an authorized user for the medical uses authorized under 10 CFR 35.100.

For 35.290

Board Certification

I attest that AJAY MARWAHA has satisfactorily completed the requirements in
Name of Proposed Authorized User

10 CFR 35.290(a)(1) and has achieved a level of competency sufficient to function independently as an authorized user for the medical uses authorized under 10 CFR 35.100 and 35.200.

OR

Training and Experience

I attest that AJAY MARWAHA 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 has achieved a level of competency sufficient to function independently as an authorized user for the medical uses authorized under 10 CFR 35.100 and 35.200.

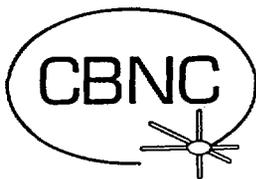
Second Section

Complete the following for preceptor attestation and signature:

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

Name of Preceptor <u>RICHARD BUTCHER</u>	Signature <u>RJ Butcher MD</u>	Telephone Number <u>570-271-6423</u>	Date <u>2/16/07</u>
License/Permit Number/Facility Name <u>37-01421-01</u>		<u>Geisinger Medical Center</u>	



Certification Board of Nuclear Cardiology

19562 Club House Road • Montgomery Village, MD 20886
Ph: +240.631.8151 • F: +240.631.8152 • Email: administration@cbnc.org • Website: www.cbnc.org

**For Immediate Release
December 2006**

BOARD OF DIRECTORS

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Executive Director

AJAY RAI MARWAHA MD ACHIEVES BOARD CERTIFICATION IN NUCLEAR CARDIOLOGY

Montgomery Village, Maryland, USA - The Certification Board of Nuclear Cardiology (CBNC), a not-for-profit corporation established to develop and administer practice-related examinations in the field of Nuclear Cardiology, is pleased to announce that **Ajay Rai Marwaha MD, of Danville, PA USA** passed the certification examination in October 2006. Dr. Marwaha is now entitled to designate him/herself as "Diplomate of the Certification Board of Nuclear Cardiology".

<< Diplomate to add his/her biographical information here >>

The purposes of the CBNC Certification Program are to establish the domain of the practice of Nuclear Cardiology for certification; to assess the level of knowledge demonstrated by Nuclear Cardiology specialists in a valid manner; to encourage professional growth in, and enhance the quality of, the practice of Nuclear Cardiology; to recognize formally individuals who meet the requirements set by CBNC; and to serve the public by encouraging quality patient care in the practice of Nuclear Cardiology.

CBNC has been recognized by the Nuclear Regulatory Commission (NRC) as meeting the requirements for the specialty board certification pathway under 10 CFR Part 35, Section 35.290.

About CBNC

The Certification Board of Nuclear Cardiology, a not-for-profit corporation established in 1996, is a fully autonomous entity, independent of any other association, society, or academy. This independence allows the CBNC to maintain integrity concerning policy matters related to certification. Since 2003, CBNC has collaborated with the European Council of Nuclear Cardiology (ECNC) to offer the examination in a European venue. ECNC has representation on the CBNC's Examination Committee.

To date, 5,038 physicians have been certified in nuclear cardiology.

For further information contact:

Dawn M. Edgerton
Executive Director
Certification Board of Nuclear Cardiology
19562 Club House Road
Montgomery Village, MD 20886 USA
Tel: +240.631.8151 • Fax: +240.631.8152
www.cbnc.org; edgerton@cbnc.org

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Certification Board of Nuclear Cardiology

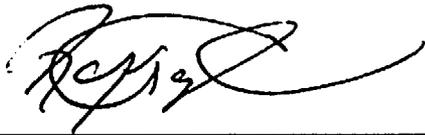
Incorporated 1996

Certifies That

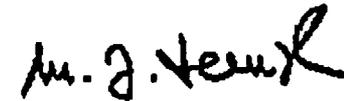
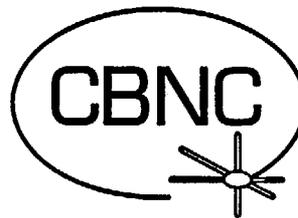
Ajay Rai Marwaha, MD

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

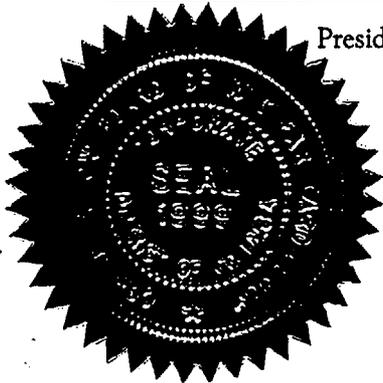
FOR THE PERIOD 2006 - 2016



President



Secretary



CERTIFICATE NUMBER: 5018

P-3

Health & Radiological Seminars, Inc.

Hereby certifies that

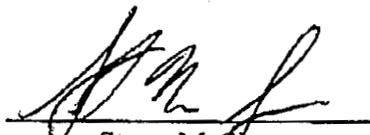
AJAY MARWAHA, M.D.

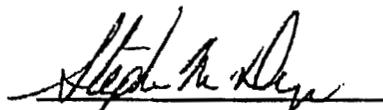
has successfully completed the 200 Hour Physician Training
Program in Basic Radioisotope Handling conducted
in accordance with the requirements of the
U.S. Nuclear Regulatory Commission (10 CFR 35).

COURSE OUTLINE

Radiation Physics and Instrumentation - 100 hours
Mathematics pertaining to the use and measurement of radioactivity - 20 hours
Radiopharmaceutical Chemistry - 30 hours
Radiation Biology - 20 hours
Radiation Protection - 30 hours

May 7, 2006


Stuart M. Simon
Program Director


Stephen Dyer, MHS
Scientific Advisor

Cardinal Health
8181 Presidents Drive
Hummelstown PA 17036
717.566.2266 main
717.566.3248 fax
www.cardinal.com



CardinalHealth

Ajay Marwaha, MD
Cardiology Geisinger Medical Center
100 N. Academy Avenue
Danville, PA 17822

February 14, 2006

Dear Dr. Marwaha:

This is to document your visit to Cardinal Health Nuclear Pharmacy Services on February 14, 2006. On that day the following information was covered.

- Review the TC99m generator. The elution and testing for MO99 contamination.
- Review the process of compounding a radiopharmaceutical including discussion of the various types of radiopharmaceuticals available and quality control procedures.
- Review the steps involved to package and prepare for shipment of the prepared Radiopharmaceuticals.
- Question and answer period.

Sincerely,

Bob Grobinski, RPh, BCNP
Cardinal Health Nuclear Pharmacy Services

Geisinger Health System

CERTIFICATE OF COMPLETION

This certifies that

A J A Y M A R W A H A , M D

*Has satisfactorily completed the Fluoroscopy Training Program
presented by
Medical Health Physics
on July 7, 2004*

This course has been approved for 8.5 hours of Continuing Medical Education

Catherine Anderko

Catherine Anderko, Director, System, Medical Health Physics, Radiation Safety Officer

7-19-04

Date

Mildred K Fleetwood

Mildred Fleetwood, PhD, Chair, Radiation Safety Committee

7-19-04

Date

MEMO

Health Physics

M.C. 29-00
100 North Academy Avenue
Danville, PA 17822
570 271 7015 Tel
570 214 9248 Fax

Geisinger

Health System

Heal. Teach. Discover. Serve.

Date: June 17, 2004

To: Dr. Frank Menapace

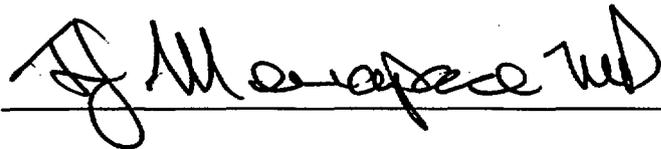
From: Cathy Anderko, M.S., CHP, Director, System, Medical Health Physics, RSO

Re: Radiation Worker Orientation

As requested, a radiation badge for **Ajay Marwaha** was ordered and is enclosed with this packet. Prior to distributing the badge/s, please ensure the employee reviews the attached material and completes the checklist below. In addition, please review specific operating procedures with the employee for each type of equipment the employee may operate, confirming competence. Sign and return this form to Medical Health Physics at the address listed above.

	Date Completed	Employees Initials
Employee Radiation Monitoring Instructions	07/08/04	ACM
Personnel Radiation Monitoring Policy	07/08/04	ACM
Radiation Protection Guidelines - Fluoroscopy	07/08/04	ACM
Human Resources – Radiation Safety Discipline Policy	07/08/04	ACM
Memo – Concurrent Monitoring	07/08/04	ACM
Pregnancy Policy for Individuals Occupationally Exposed to Ionizing Radiation	07/08/04	ACM
Blackboard™ X-RAY Radiation Safety Training (enrollment instructions attached)	N/A	N/A

I confirm that the employee has read and understands the material above, and received instruction relative to the safe and proper operation of the x-ray equipment to be used.

Supervisor Signature  Date 07/21/04

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

2/23/2007, and to inform you that the initial processing which includes an administrative review has been performed.

AMEND. 37-30426-01 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 140171.
When calling to inquire about this action, please refer to this control number.
You may call us on (610) 337-5398, or 337-5260.