



INOVA<sup>®</sup> HEALTH  
SYSTEM

NMSB1

U S Nuclear Regulatory Commission Reg I  
Medical Licensing Section  
475 Allendale Road  
King of Prussia, PA 19406

03003335

2007 JUL 23 PM 1:57

RECEIVED  
REGION 1

Re: Addition of AMP to NRC License No. 45-09358-02

Dear Sir:

Please accept this letter and attachments as a request to add Shuntong Guo as the Authorized Medical Physicist (AMP) for LDR (cs-137) and HDR (Ir-192) Brachtherapy devices.

Should you have any question with this matter, please contact me at 703-504-3109.

Thank you,

Kathy Barry, COO, Inova Alexandria Hospital

Attachments: NRC form 313A  
Shuntong Guo Resume'  
Certificates, Trainings, and Qualification  
NRC License No 45-09358-02

Cc: Michael Friedman, MD, RSO, Inova Alexandria Hospital

140840

NMSS/RGN1 MATERIALS-002

**AUTHORIZED MEDICAL PHYSICIST TRAINING AND EXPERIENCE  
AND PRECEPTOR ATTESTATION  
[10 CFR 35.51]**APPROVED BY OMB: NO. 3150-0120  
EXPIRES: 10/31/2008

Name of Proposed Authorized Medical Physicist

SHILINTONG GUO

Requested

Authorization(s)

(check all that apply)

☐

35.400 Ophthalmic use of strontium-90

☒

35.600 Teletherapy unit(s)

☒

35.600 Remote afterloader unit(s)

☐

35.600 Gamma stereotactic radiosurgery unit(s)

**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**

- Provide a copy of the board certification.
- Go to the table in 3.c. and describe training provider and dates of training for each type of use for which authorization is sought.
- Skip to and complete Part II Preceptor Attestation.

☐**2. Current Authorized Medical Physicist Seeking Additional Authorization for use(s) checked above**

- Go to the table in section 3.c. to document training for new device.
- Skip to and complete Part II Preceptor Attestation

☒**3. Education, Training, and Experience for Proposed Authorized Medical Physicist**

- Education: Document master's or doctor's degree in physics, medical physics, other physical science, engineering, or applied mathematics from an accredited college or university.

Degree	Master of Science	Major Field	Health Physics
College or University	Purdue University		

- Supervised Full-Time Medical Physics Training and Work Experience in clinical radiation facilities that provide high-energy external beam therapy (photons and electrons with energies greater than or equal to 1 million electron volts) and brachytherapy services.

☒

Yes. Completed 1 year of full-time training in medical physics (for areas identified below) under the supervision of Dr. Zhen Zheng who meets the requirements for an Authorized Medical Physicist.

**AND**☒

Yes. Completed 1 year of full-time work experience in medical physics (for areas identified below) under the supervision of Dr. Zhen Zheng who meets the requirements for an Authorized Medical Physicist.

## AUTHORIZED MEDICAL PHYSICIST TRAINING AND EXPERIENCE AND PRECEPTOR ATTESTATION (continued)

## 3. Education, Training, and Experience for Proposed Authorized Medical Physicist (continued)

## b. Supervised Full-Time Medical Physics Training and Work Experience (continued)

If more than one supervising individual is necessary to document supervised training, provide multiple copies of this page.

Description of Training/ Experience	Location of Training/License or Permit Number of Training Facility/Medical Devices Used+	Dates of Training*	Dates of Work Experience*
Medical Physics	INOVA Alexandria Hospital, VA 22304 / License number 45-09358-02 / Ir-192 HDR, Cs-137 LDR, High E (6x, 10x) photon	02/2005 ~ 02/2006	02/2006 ~ 06/2007
Performing sealed source leak tests and inventories	INOVA Alexandria Hospital, VA 22304 License Number 45-09358-02 Cs-137, Ir-192, (Pd-103 inventory)	02/2005 ~ 02/2006	03/2006 ~ 06/2007
Performing decay corrections	INOVA Alexandria Hospital, VA 22304 License Number 45-09358-02 Cs-137, Ir-192, Pd-103 <sup>for</sup> Brachytherapy	02/2005 ~ 02/2006	03/2006 ~ 06/2007
Performing full calibration and periodic spot checks of external beam treatment unit(s)	Inova Alexandria Hospital, VA 22304 # VA-023-01 2100 CD, 21EX, Trilogy Linac	02/2005 ~ 02/2006	03/2006 ~ 06/2007
Performing full calibration and periodic spot checks of stereotactic radiosurgery unit(s)			
Performing full calibration and periodic spot checks of remote afterloading unit(s)	Inova Alexandria Hospital, VA 22304 License Number 45-09358-02 VariSource 200 HDR (Ir-192 source)	02/2005 ~ 02/2006	03/2006 ~ 06/2007
Conducting radiation surveys around external beam treatment unit(s), stereotactic radiosurgery unit(s), remote after loading unit(s)	Inova Alexandria Hospital, VA 22304 NRC 45-09358-02, #VA-023-01 Trilogy Varian Linac, Ir-192 HDR Unit	02/2005 ~ 02/2006	03/2006 ~ 06/2007
Supervising Individual** Zhen Zheng, Ph.D., DABR		License/Permit Number listing supervising individual as an authorized Medical Physicist 45-09358-02	

for the following types of use:

☒ Remote afterloader unit(s) ☒ Teletherapy unit(s) ☐ Gamma stereotactic radiosurgery unit(s)

\* Training and work experience must be conducted in clinical radiation facilities that provide high-energy external beam therapy (photons and electrons with energies greater than or equal to 1 million electron volts) and brachytherapy services.

\*\* 1 year of Full-time medical physics training and 1 year of full time work experience cannot be concurrent.

\*\* If the supervising medical physicist is not an authorized medical physicist, the licensee must submit evidence that the supervising medical physicist meets the training and experience requirements in 10 CFR 35.51 and 35.59 for the types of use for which the individual is seeking authorization.

## AUTHORIZED MEDICAL PHYSICIST TRAINING AND EXPERIENCE AND PRECEPTOR ATTESTATION (continued)

## 3. Education, Training, and Experience for Proposed Authorized Medical Physicist (continued)

c. Describe training provider and dates of training for each type of use for which authorization is sought.

Description of Training	Training Provider and Dates		
	Remote Afterloader	Teletherapy	Gamma Stereotactic Radiosurgery
Hands-on device operation	Training Provider: Varian Medical Systems May 14-15, 2007 VariSource™ HDR Afterloader	Provider: Varian Medical Systems 7/18/06, 9/5/06, etc. Clinac® Support High Energy c. Clinac Linear Accelerator	
Safety procedures for the device use	Provider: Varian Authorized Medical Physicist: Dr. Zhen Zheng Training was offered after each source change.	Provider: Zhen Zheng, Ph.D. AMP 02/2005 ~ 02/2006 Inova Alexandria Hospital	
Clinical use of the device	Provider: AMP, Dr. Zhen Zheng 02-2005 ~ 02-2006 Inova Alexandria Hospital	Provider: Zhen Zheng, Ph.D. AMP 02/2005 ~ 02/2006 Inova Alexandria Hospital	
Treatment planning system operation	Training Provider: Varian Medical Systems July 13-15, 2005 BrachyVision™ Treatment Planning System	Eclipse Treatment Planning system. Training provided by Varian Medical Systems March 2005 IAH	

## Supervising Individual

If training is provided by Supervising Medical Physicist, (If more than one supervising individual is necessary to document supervised training, provide multiple copies of this page.)

Zhen Zheng, Ph.D., DABR, AMP

License/Permit Number listing supervising individual as an authorized Medical Physicist

NRC 45-09358-02  
Virginia State: # VA-023-01

for the following types of use:

☒ Remote afterloader unit(s) ☒ Teletherapy unit(s) ☐ Gamma stereotactic radiosurgery unit(s)

If Applicable:

Authorization Sought	Device	Training Provided By	Dates of Training
35.400 Ophthalmic Use of strontium-90			

d. Skip to and complete Part II Preceptor Attestation.

**AUTHORIZED MEDICAL PHYSICIST 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.

**First Section**

**Check one of the following:**

**1. Board Certification**

☐ I attest that \_\_\_\_\_ has satisfactorily completed the requirements in  
Name of Proposed Authorized Medical Physicist  
10 CFR 35.51(a)(1) and (a)(2).

**OR**

**2. Education, Training, and Experience**

☒ I attest that SHUNTONG GUO, M.S. CHP has satisfactorily completed the 1-year of full-time  
Name of Proposed Authorized Medical Physicist  
training in medical physics and an additional year of full-time work experience as required by 10 CFR 35.51(b)(1).

**AND**

**Second Section**

**Complete the following:**

☒ I attest that SHUNTONG GUO, M.S. CHP has training for the types of use for which authorization  
Name of Proposed Authorized Medical Physicist  
is sought that include hands-on device operation, safety procedures, clinical use, and the operation of a treatment planning system.

**AND**

**Third Section**

**Complete the following:**

☒ I attest that SHUNTONG GUO, M.S. CHP has achieved a level of competency sufficient to  
Name of Proposed Authorized Medical Physicist  
function independently as an Authorized Medical Physicist for the following:

- ☐ 35.400 Ophthalmic use of strontium-90    ☒ 35.600 Teletherapy unit(s)  
☒ 35.600 Remote afterloader unit(s)    ☐ 35.600 Gamma stereotactic radiosurgery unit(s)

**AND**

**Fourth Section**

**Complete the following for preceptor attestation and signature:**

☒ I meet the requirements in 10 CFR 35.51, or equivalent Agreement State requirements for Authorized Medical Physicist for the following:

- ☐ 35.400 Ophthalmic use of strontium-90    ☒ 35.600 Teletherapy unit(s)  
☒ 35.600 Remote afterloader unit(s)    ☐ 35.600 Gamma stereotactic radiosurgery unit(s)

Name of Preceptor <u>Zhen Zheng</u>	Signature <u>[Signature]</u>	Telephone Number <u>703 504 7919</u>	Date <u>6/20/07</u>
License/Permit Number/Facility Name <u>45-09358-02</u>		<u>INOVA ALEXANDRIA HOSPITAL</u>	

## AUTHORIZED MEDICAL PHYSICIST 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.

## First Section

Check one of the following:

1. Board Certification

☐ I attest that \_\_\_\_\_ has satisfactorily completed the requirements in  
Name of Proposed Authorized Medical Physicist  
10 CFR 35.51(a)(1) and (a)(2).

OR

2. Education, Training, and Experience

☒ I attest that SHUNTONG GUO, M.S., CHP has satisfactorily completed the 1-year of full-time  
Name of Proposed Authorized Medical Physicist  
training in medical physics and an additional year of full-time work experience as required by 10 CFR 35.51(b)(1).

AND

## Second Section

Complete the following:

☒ I attest that SHUNTONG GUO, M.S., CHP has training for the types of use for which authorization  
Name of Proposed Authorized Medical Physicist  
is sought that include hands-on device operation, safety procedures, clinical use, and the operation of a treatment planning system.

AND

## Third Section

Complete the following:

☒ I attest that SHUNTONG GUO, M.S., CHP has achieved a level of competency sufficient to  
Name of Proposed Authorized Medical Physicist  
function independently as an Authorized Medical Physicist for the following:

- ☐ 35.400 Ophthalmic use of strontium-90 ☒ 35.600 Teletherapy unit(s)  
☒ 35.600 Remote afterloader unit(s) ☐ 35.600 Gamma stereotactic radiosurgery unit(s)

AND

## Fourth Section

Complete the following for preceptor attestation and signature:

☒ I meet the requirements in 10 CFR 35.51, or equivalent Agreement State requirements for Authorized Medical Physicist for the following:

- ☐ 35.400 Ophthalmic use of strontium-90 ☒ 35.600 Teletherapy unit(s)  
☒ 35.600 Remote afterloader unit(s) ☐ 35.600 Gamma stereotactic radiosurgery unit(s)

Name of Preceptor <u>[Signature]</u>	Signature <u>Michael Friedman, M.D./RSO</u>	Telephone Number <u>703-504-3116</u>	Date <u>6-20-07</u>
License/Permit Number/Facility Name <u>45-09358-02</u>		<u>INOVA ALEXANDRIA HOSPITAL</u>	

## **Shuntong Guo, M.S., CHP**

Phone: (703) 504-7245 (O)

Fax: (703) 504-7979

Email: Shuntong.Guo@inova.org

### **EMPLOYMENT HISTORY**

**Physicist**, Inova Alexandria Cancer Center at Inova Alexandria Hospital, Alexandria, VA 22304,  
February 2005 – Present

Responsibilities: calibration and quality assurance for linear accelerators and the high dose rate remote afterloader (HDR); radiation dose measurement; patient chart checking; intensity modulated radiation therapy treatment planning and validation; high dose rate (HDR) and low dose rate (LDR) brachytherapy treatment planning, implementation, survey and quality control; prostate radioactive seed implant physics support; and administering IMPAC radiation oncology record and verify system etc.

**Physicist**, Radiation Oncology, Lenox Hill Hospital / Marsden Medical Physics Associates, LLC.,  
New York, NY 10021, July 2004 – January 2005

Responsibilities: High dose rate brachytherapy planning, quality control and implementations; low dose rate prostate radioactive seed implant; radiation producing modality calibration and quality assurance; treatment planning; and intensity modulated radiation therapy validation.

**Junior Physicist**, Radiation Safety Office, Columbia University Medical Center, New York,  
NY10032, April 2002 – June 2004

Responsibilities: Full-time position involved in radiation survey meter calibration, acceptance testing and QA for dental x-ray machines, radiation safety survey for medical linear accelerators and x-ray equipment, brachytherapy patient survey, radiation protection surveys, effluent and environmental monitoring and analysis, audits and inspection of non-radiology x-ray facilities and laboratories using radioactive materials, and radiation emergency response.

**Radiation Physicist**, the Fourth Hospital of Hebei Medical University, China (Aug. 1989 – Jul. 1994)

Responsibilities: Full-time position involved in calibration of linear accelerators, radiation dose measurement from high energy photon and electron beams, acceptance testing and quality assurance for radiation producing equipments, computerized treatment planning, patient dose calculation, radiation protection, personnel dosimetry, and radiation safety.

### **EDUCATION**

**Master of Science** in Health Physics, Purdue University, West Lafayette, IN (Aug. 1994 ~ May 2002)

Ph.D. Candidate, School of Health Sciences, Purdue University (Spring 1998, Fall 2001)

Research Topic: Neutron Activation of Radiotherapy Accessories of a Linear Accelerator

**Bachelor of Science** in Nuclear Physics, Beijing University, Beijing, China (Sept. 1985 ~ July, 1989)

### **TRAINING**

SmartSeed™ HDR BrachyTherapy System Including VariSource™ HDR Afterloader Training,  
Varian Medical Systems, Charlottesville, VA, May, 2007

IMPAC Oncology Management – Administering MOSAIQ and Image-Enabled Charting, King of  
Prussia, PA, November 2006

Respiratory Gating, Varian, Las Vegas, NV, October 2006

Clinac® Support High Energy 'C', Varian, Las Vegas, NV, September 2006

MammoSite® RTS Clinical Training Program, CYTYC, Marlborough, MA, January 2006

DOT & NRC Requirements for Shipping and Receiving Radioactive Materials, Gaithersburg, MD 2005

BrachyVision Treatment Planning System Training by Varian BrachyTherapy, Charlottesville, VA 2005

AAPM Summer School: Specifications, Performance Evaluation and Quality Assurance of

Radiographic and Fluoroscopic Systems in the Digital Era, Pittsburgh, PA 2004

Radiation Oncology Practicum, Department of Radiation Oncology, Columbia University, spring 2004

Health Physics Society Summer School (the 20<sup>th</sup>) on Non-Ionizing Radiation, San Antonio, 1997

Certificate in Radiation Physics, Cancer Institute, Chinese Academy of Medical Sciences, Beijing,  
China (Feb. 1991 - Jan. 1992)

**PERSONAL INFORMATION WAS REMOVED  
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## **CERTIFICATION**

Board Certification Eligible in the American Board of Radiology

Passed American Board of Radiology Therapeutic Physics part II exam in 2006

Passed American Board of Radiology Therapeutic Physics part I exam (Clinical and General Physics) in 2005

Board Certified in the American Board of Health Physics (in comprehensive practice) (2003)

## **MEMBERSHIP, LICENSE & AWARDS**

- Full Member of the American Association of Physicists in Medicine
- Plenary Member of the Health Physics Society
- Member of the Baltimore-Washington Chapter of the Health Physics Society
- Full Member of the American Academy of Health Physics
- AAPM Summer School Scholarship & Capintec Grant (2004)
- Summer Research Fellowship from Purdue Research Foundation (Summer 2001)
- Health Physics Society Summer School Fellowship (1997)
- Purdue University Fellowship (Andrew's Fellow) for Two Years (Aug. 1994 – Jul. 1996)

## **COMPUTER SKILLS**

C, C++, Fortran, Java, HTML, Microsoft Office, Unix, Windows, Monte Carlo simulation techniques

## **PUBLICATION**

S. Guo, P. Ziemer, "Health Physics Aspects of Neutron Activated Components in a Linear Accelerator", *Operational Radiation Safety*, 86: S94 – S102, No. 5, 2004

B. Kiser, S. Guo, "A Self-teaching Manual on Gamma-Ray Spectrometry using a High Purity Germanium Detector", School of Health Sciences, Purdue University (Internal), Fall 2000.

S. Guo, P. Ziemer, R. Landolt, and D. Hung, "Neutron Activation of Radiotherapy Accessories of the Linear Accelerator", *Health Physics*, 72: S45 – S46, 1997



## ***Product Education Certificate***

Presented To:

*Shuntong Guo, MS*

***For Attending the Training Course on the  
SmartSeed™ HDR BrachyTherapy System  
Including  
VariSource™ HDR Afterloader***

May 14-15, 2007

Instructor

*Wayne LaJoie*  
Wayne LaJoie BS, GMD

**Varian BrachyTherapy – The Better Solution.**

**PARTNERS  
FOR**



DIAGNOSTIC RADIOLOGY • RADIATION ONCOLOGY • RADIOLOGIC PHYSICS

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September 14, 2006

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La Jolla, California  
Janet L. Strife, M.D.  
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New Brunswick, New Jersey  
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Stanford, California  
Larry E. Kun, M.D.  
Memphis, Tennessee  
Christopher G. Willett, M.D.  
Durham, North Carolina

#### Radiologic Physics

G. Donald Frey, Ph.D.  
Charleston, South Carolina  
Richard L. Morin, Ph.D.  
Jacksonville, Florida  
Bhuddatt R. Paliwal, Ph.D.  
Madison, Wisconsin

Shuntong Guo, MS

P3890 / PT

Dear Mr. Guo:

Congratulations, the results of your Therapeutic Physics examination held August 23 - 25, 2006 are as follows:

Part 2: Physics, Therapeutic

Passed

I am pleased to inform you that you may take the 2007 oral examination. Notification for that examination will be sent to you five months prior to the exam. The oral examination fee will be due upon notification.

Please notify us in writing immediately of any change of address.

Sincerely,

Robert R. Hattery, MD

**PERSONAL INFORMATION WAS REMOVED  
BY NRC. NO COPY OF THIS INFORMATION  
WAS RETAINED BY THE NRC.**

Robert R. Hattery, M.D., Executive Director  
Gary J. Becker, M.D., Associate Executive Director    Lawrence W. Davis, M.D., Associate Executive Director  
Stephen R. Thomas, Ph.D., Associate Executive Director

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Anthony V. Proto, M.D., Diagnostic Radiology  
Bruce G. Haffty, M.D., Radiation Oncology  
Bhuddatt R. Paliwal, Ph.D., Radiologic Physics

#### Assistant Executive Directors: Maintenance of Certification

James P. Borgstede, M.D., Diagnostic Radiology  
Larry E. Kun, M.D., Radiation Oncology  
Richard L. Morin, Ph.D., Radiologic Physics  
George S. Bisset, M.D., Subspecialty Certification

5441 E. WILLIAMS BOULEVARD, SUITE 200 • TUCSON, ARIZONA 85711-4493 • PHONE (520) 790-2900 • FAX (520) 790-3200

E-mail: [information@theabr.org](mailto:information@theabr.org) • website: [www.theabr.org](http://www.theabr.org)

A Member Board of the American Board of Medical Specialties

# Certificate of Attendance

This Certifies that

Shuntong Guo

Attended the

Applications Training Session for:  
**Multileaf Collimator (MLC)**

This Course is approved for 3.0 Category A Credits  
Reference Number CAZ0229009 by the ASRT Department of Education

Participant's Social Security Number:

\_\_\_\_\_

**VARIAN**  
medical systems  
Clinical Support Services

Pamela A. Melms MEd/RTT 7/18/02  
Authorized Representative Date

# *Certificate of Attendance*

*This Certifies that*

Shuntong Guo  
*Attended the*

*Applications Training Session for:*  
**Clinac Linear Accelerator**

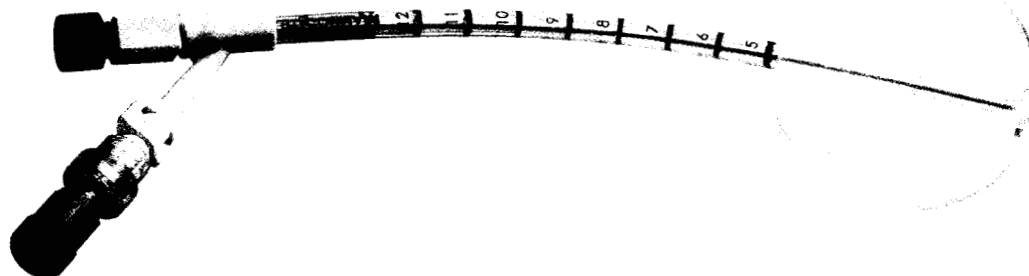
*This Course is approved for 3.0 Category A Credits*  
*Reference Number CAZ0220003 by the ASRT Department of Education*

*Participant's Social Security Number:*

\_\_\_\_\_

**VARIAN**  
medical systems  
**Clinical Support Services**

Pamela A. Melno MED, RTT 7/18/06  
*Authorized Representative* *Date*



## Certificate of Attendance

For the MammoSite® RTS Clinical Training Program

January 21, 2006 – Marlborough, MA  
**Shuntong Guo, MS** – Medical Physicist

---

Jim Linder, MD  
Chief Medical Officer  
Cytac Corporation

 **MAMMO SITE**®  
Radiation Therapy System

# Certificate of Training

This Certifies That

***Shuntong Guo***

has been trained, tested and successfully completed specialized instruction in

## **DOT & NRC Requirements for Shipping and Receiving Radioactive Materials**

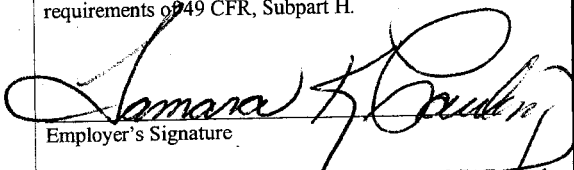
**November 8, 2005**

Presented By: **Sean M. Austin, Instructor**  
***Radiation Safety Academy***  
481 North Frederick Avenue, Suite 302, Gaithersburg, Maryland 20877  
www.RadiationSafetyAcademy.com -- 301-990-6006

Presented For: **Inova Alexandria Hospital**

Presented At: **Gaithersburg, MD**

This certifies that the employee named on this certificate has been trained and tested in accordance with the training requirements of 49 CFR, Subpart H.

  
Employer's Signature

This certificate is valid for 24 months for ICAO/IATA and for three years for U.S. Department of Transportation and U.S. Nuclear Regulatory Commission or Agreement State Agencies.



Sean Austin, CHP  
Senior Health Physicist

# Certificate of Training

Awarded To

*Shuntong Guo*

Recognizing completion of 2 days of specialized instruction in

## **DOT & NRC Requirements for Shipping and Receiving RAM**

**November 8, 2005**

Presented By

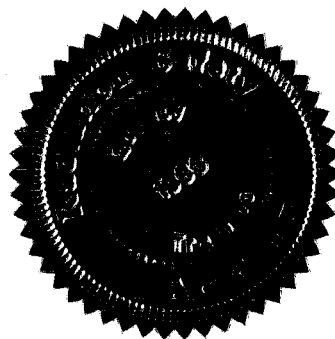
***Radiation Safety Academy***

481 North Frederick Avenue, Suite 302  
Gaithersburg, Maryland 20877

ABIH has awarded this course 2.0 CM Points, CM Approval #05-406  
AAHP has awarded this course 32 Continuing Education Credits, 2000-00-015



Raymond Johnson, MS, PE, RSO, FHPS, CHP  
Academy Director



## Certificate of Attendance

Presented To:

Shuntong Guo

For Attending the Training Course on the  
BrachyVision™ Treatment Planning System

Training Course Dates: July 13-15, 2005

Instructor: Luke Chan

**Varian BrachyTherapy – The Better Solution.**





THE UNIVERSITY OF THE STATE OF NEW YORK  
EDUCATION DEPARTMENT



BE IT KNOWN THAT

SHUNTONG GUO

HAVING GIVEN SATISFACTORY EVIDENCE OF THE COMPLETION OF PROFESSIONAL  
AND OTHER REQUIREMENTS PRESCRIBED BY LAW IS QUALIFIED TO PRACTICE AS A

MEDICAL PHYSICIST-MEDICAL HEALTH

IN THE STATE OF NEW YORK

IN WITNESS WHEREOF THE EDUCATION DEPARTMENT GRANTS THIS LICENSE  
UNDER ITS SEAL AT ALBANY, NEW YORK  
THIS THIRD DAY OF JUNE, 2004.

PRESIDENT OF THE UNIVERSITY  
AND COMMISSIONER OF EDUCATION

LICENSE NUMBER  
000103



DEPUTY COMMISSIONER  
OFFICE OF THE PROFESSIONS

EXECUTIVE SECRETARY  
STATE BOARD FOR  
MEDICINE

THE UNIVERSITY OF THE STATE OF NEW YORK  
EDUCATION DEPARTMENT



BE IT KNOWN THAT

SHUNTONG GUO

HAVING GIVEN SATISFACTORY EVIDENCE OF THE COMPLETION OF PROFESSIONAL  
AND OTHER REQUIREMENTS PRESCRIBED BY LAW IS QUALIFIED TO PRACTICE AS A

MEDICAL PHYSICIST-DIAGNOSTIC RADIOLOGICAL

IN THE STATE OF NEW YORK

IN WITNESS WHEREOF THE EDUCATION DEPARTMENT GRANTS THIS LICENSE  
UNDER ITS SEAL AT ALBANY, NEW YORK  
THIS THIRD DAY OF JUNE, 2004.

PRESIDENT OF THE UNIVERSITY  
AND COMMISSIONER OF EDUCATION

LICENSE NUMBER  
000143



DEPUTY COMMISSIONER  
OFFICE OF THE PROFESSIONS

EXECUTIVE SECRETARY  
STATE BOARD FOR  
MEDICINE

# American Board of Health Physics

*Be it known that*

**Shuntong Guo, M.S.**

*has satisfactorily met the professional standards established by the*

**American Board of Health Physics**

*and is hereby certified in  
the comprehensive practice of*

**HEALTH PHYSICS**

*and is entitled to be identified as a Diplomate  
of the American Board of Health Physics*

November 2003

Date

Mary L. Birch  
Secretary

D. W. M. Smith  
Chairman, Panel of Examiners

**Official Use Only - Security-Related Information**

NRC FORM 374

U.S. NUCLEAR REGULATORY COMMISSION

PAGE 1 OF 5 PAGES  
Amendment No. 42**MATERIALS LICENSE**

Pursuant to the Atomic Energy Act of 1954, as amended, the Energy Reorganization Act of 1974 (Public Law 93-438), and Title 10, Code of Federal Regulations, Chapter I, Parts 30, 31, 32, 33, 34, 35, 36, 39, 40, and 70, and in reliance on statements and representations heretofore made by the licensee, a license is hereby issued authorizing the licensee to receive, acquire, possess, and transfer byproduct, source, and special nuclear material designated below; to use such material for the purpose(s) and at the place(s) designated below; to deliver or transfer such material to persons authorized to receive it in accordance with the regulations of the applicable Part(s). This license shall be deemed to contain the conditions specified in Section 183 of the Atomic Energy Act of 1954, as amended, and is subject to all applicable rules, regulations, and orders of the Nuclear Regulatory Commission now or hereafter in effect and to any conditions specified below.

Licensee	In accordance with the letter received June 26, 2006,
1. INOVA Alexandria Hospital	3. License number 45-09358-02 is amended in its entirety to read as follows:
2. 4320 Seminary Road Alexandria, Virginia 22304	4. Expiration date July 31, 2011
	5. Docket No. 030-03335 Reference No.

- |   |   |  |
|---|---|--|
| 6. Byproduct, source, and/or special nuclear material | 7. Chemical and/or physical form  | 8. Maximum amount that licensee may possess at any one time under this license |
| A. Any byproduct material permitted by 10 CFR 35.100  | A. Any  | A. As needed   |
| B. Any byproduct material permitted by 10 CFR 35.200  | B. Any  | B. As needed   |
| C. Any byproduct material permitted by 10 CFR 35.300  | C. Any  | C. 1000 millicuries  |
| D. Any byproduct material permitted by 10 CFR 35.400  | D. Sealed Source (3M Model Series 6500, 6520 [formerly 6D6C])                       | D. 500 millicuries   |
| E. Any byproduct material permitted by 10 CFR 35.500  | E. Sealed Source (IPL Model A3410; DuPont Merck Model NES-8412; NAS Model MED 3601) | E. 300 millicuries per source and 1200 millicuries total                       |
| F. Iridium-192 permitted by 10 CFR 35.600             | F. Sealed source (Varian Medical Systems Model VS2000)                              | F. 13 curies per source and 21 curies total                                    |

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**MATERIALS LICENSE  
SUPPLEMENTARY SHEET**License Number  
45-09358-02Docket or Reference Number  
030-03335

Amendment No. 42

- |   |                                    |  |
|---|------------------------------------|--|
| 6. Byproduct, source, and/or special nuclear material | 7. Chemical and/or physical form   | 8. Maximum amount that licensee may possess at any one time under this license |
| G. Any byproduct material permitted by 10 CFR 31.11   | G. Any                             | G. 5 millicuries   |
| H. Cesium 137   | H. Sealed Source (3M Model Micrad) | H. 200 millicuries   |

## 9. Authorized use:

- A. Any uptake, dilution and excretion study permitted by 10 CFR 35.100.
- B. Any imaging and localization study permitted by 10 CFR 35.200.
- C. Any diagnostic study or therapy procedure permitted by 10 CFR 35.300.
- D. Any manual brachytherapy procedure permitted by 10 CFR 35.400.
- E. Diagnostic medical use of sealed sources permitted by 10 CFR 35.500 in compatible devices registered pursuant to 10 CFR 30.32(g).
- F. One source for medical use permitted by 10 CFR 35.600, in a Varian-TEM Ltd. VariSource remote afterloader unit. The source activity may not exceed 10 curies at the time of installation. One source in its shipping container as necessary for replacement of the source in the remote afterloader unit.
- G. In vitro studies.
- H. For possession only.

**CONDITIONS**

- 10. Licensed material may be used or stored only at the licensee's facilities located at 4320 Seminary Road, Alexandria, Virginia.
- 11. The Radiation Safety Officer for this license is Michael Friedman, M.D.
- 12. Licensed material is only authorized for use by, or under the supervision of:
  - A. Individuals permitted to work as an authorized user and authorized medical physicist in accordance with 10 CFR 35.13 and 35.14.

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B. The following individuals are authorized users for medical use as indicated:

Authorized UsersMaterial and Use

Michael H. Friedman, M.D.	35.100; 35.200; 35.300; 35.500; 31.11
William Hindle, M.D.	35.100; 35.200; 35.300; 35.500; 31.11
Deborah N. Blair, M.D.	35.100; 35.200; 35.300; 35.500; 31.11
Rhonda Stewart, M.D.	35.100; 35.200; 35.300; 35.500; 31.11
Jane Grayson, M.D.	35.400; Iridium-192 for uses in a High Dose Rate Remote Afterloader Unit
Stephen J. M. Banks, M.D.	35.400; Iridium-192 for uses in a High Dose Rate Remote Afterloader Unit
Karan Lotfi, M.D.	35.100; 35.200; 35.300; 35.500
Monjari Gillian, M.D.	35.100; 35.200; 35.500
Richard R. Barbu, M.D.	35.100; 35.200; 35.500
Carlos Artiles, M.D.	35.100; 35.200; 35.500
John DeGrazia, M.D.	35.100; 35.200
William Dunwoody, M.D.	35.100; 35.200
Nitin Kumar, M.D.	35.100; 35.200
Scott LeBolt, M.D.	35.100; 35.200
Mark Lopiano, M.D.	35.100; 35.200
Michael Weiss, M.D.	35.100; 35.200; 35.300

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C. The following individuals are authorized medical physicists as indicated:

Authorized Medical Physicists

Material and Use

Arnold M. Able

Iridium-192 in a High Dose Rate Remote  
Afterloader Unit for calibrations, spot-checks, and  
training

Zhen Zheng, Ph.D.

Iridium-192 in a High Dose Rate Remote  
Afterloader Unit for calibrations, spot-checks, and  
training

D. The following individuals are authorized users for non-medical uses as indicated:

Users

Material and Use

Zhen Zheng, Ph.D.

Cesium 137 for possession only

13. In addition to the possession limits in Item 8, the licensee shall further restrict the possession of licensed material to quantities below the minimum limit specified in 10 CFR 30.35(d) for establishing decommissioning financial assurance.
14. The licensee is authorized to transport licensed material in accordance with the provisions of 10 CFR Part 71, "Packaging and Transportation of Radioactive Material."

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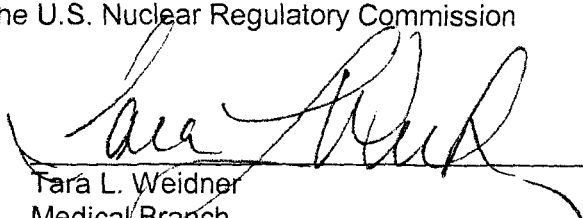
15. Except as specifically provided otherwise in this license, the licensee shall conduct its program in accordance with the statements, representations, and procedures contained in the documents, including any enclosures, listed below. This license condition applies only to those procedures that are required to be submitted in accordance with the regulations. Additionally, this license condition does not limit the licensee's ability to make changes to the radiation protection program as provided for in 10 CFR 35.26. The U.S. Nuclear Regulatory Commission's regulations shall govern unless the statements, representations, and procedures in the licensee's application and correspondence are more restrictive than the regulations.

- A. Application dated January 30, 2001 (ML010540291)
- B. Letter dated June 29, 2001 (ML011980419)
- C. Letter dated April 9, 2002 (ML021050566)
- D. Letter dated September 23, 2002 (ML022830454)

For the U.S. Nuclear Regulatory Commission

Date September 18, 2006

By

  
Tara L. Weidner

Medical Branch

Division of Nuclear Materials Safety

Region I

King of Prussia, Pennsylvania 19406

Monday, September 18, 2006 8:00:04 AM

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This is to acknowledge the receipt of your letter/application ~~dated~~ undated  
RECEIVED 7/23/2007, and to inform you that the initial processing which  
includes an administrative review has been performed.

☒ AMEND. 45-09358-02  
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** 140840.  
When calling to inquire about this action, please refer to this control number.  
You may call us on (610) 337-5398, or 337-5260.