

 **SAINT BARNABAS**  
**HEALTH CARE SYSTEM**  
*Saint Barnabas Medical Center*

---

RONALD J. DEL MAURO  
Chairman  
Board of Trustees

September 24, 2007

*NMSSB*

United States Nuclear Regulatory Commission  
Medical Licensing Section  
475 Allendale Road  
King of Prussia, PA 19406

*03002438*

RE: License number 29-01608-03

Gentlemen:

Please amend the above noted radioactive materials license to include Richard Shaw, Ph.D., and DaGuang Xu, Ph.D., as authorized medical physicists. Please authorize them for calibrations, spot checks, and training for remote afterloading units. Enclosed are preceptor forms for both individuals.

Should you have any questions concerning this amendment request, please contact our Radiation Safety Officer, Ira Garelick, at (973) 322-5256. Thank you for your cooperation in this matter.

Sincerely,



Patricia Carroll  
Senior Vice President of Operations

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REGION 1  
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**NMSS/RGN1 MATERIALS-002**

OLD SHORT HILLS ROAD ■ LIVINGSTON, NEW JERSEY 07039 ■ (973) 322-5000

Saint Barnabas Medical Center is a major teaching affiliate of Mount Sinai School of Medicine, New York



**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

Richard Shaw

**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**

- a. Provide a copy of the board certification.
- b. 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.
- c. Skip to and complete Part II Preceptor Attestation.

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

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

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

- a. 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	Major Field
Ph.D.	Medical Physics
College or University	
University of Wisconsin, Madison	

- b. 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 Thomas Mackie 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 Mark Kao 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	University of Wisconsin-Madison Dept. Radiation Oncology 25-1323-01	5/02 - 5/06	
Performing sealed source leak tests and inventories	University of Wisconsin-Madison Dept. Radiation Oncology 25-1323-01	5/02 - 5/06	
Performing decay corrections	University of Wisconsin-Madison Dept. Radiation Oncology 25-1323-01	5/02 - 5/06	
Performing full calibration and periodic spot checks of external beam treatment unit(s)	University of Wisconsin-Madison Dept. Radiation Oncology 25-1323-01	5/02 - 5/06	
Performing full calibration and periodic spot checks of stereotactic radiosurgery unit(s)	n/a		
Performing full calibration and periodic spot checks of remote afterloading unit(s)			
Conducting radiation surveys around external beam treatment unit(s), stereotactic radiosurgery unit(s), remote after loading unit(s)	University of Wisconsin- Madison Dept. Radiation Oncology 25-1323-01	5/02 - 5/06	

Supervising Individual\*\*

Thomas R Mackie

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

25-1323-01

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)**

**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 Richard Shaw 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 \_\_\_\_\_ 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 \_\_\_\_\_ 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 Thomas Mackie	Signature <i>Tom Mackie</i>	Telephone Number 973 262-7358	Date Aug 8/07
License/Permit Number/Facility Name University of Wisconsin, Madison			

**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	St. Barnabas Medical Center, 29-01608-03 <i>Dept. Radiation oncology</i>		7/06 to present
Performing sealed source leak tests and inventories	St. Barnabas Medical Center, 29-01608-03 <i>Dept. Radiation oncology</i>		7/06 to present
Performing decay corrections	St. Barnabas Medical Center, 29-01608-03		7/06 to present
Performing full calibration and periodic spot checks of external beam treatment unit(s)	St. Barnabas Medical Center, 29-01608-03		7/06 to present
Performing full calibration and periodic spot checks of stereotactic radiosurgery unit(s)	n/a		
Performing full calibration and periodic spot checks of remote afterloading unit(s)	St. Barnabas Medical Center, 29-01608-03		7/06 to present
Conducting radiation surveys around external beam treatment unit(s), stereotactic radiosurgery unit(s), remote after loading unit(s)	St. Barnabas Medical Center, 29-01608-03		7/06 to present

Supervising Individual\*\*

Mark Kao

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

29-01608-03

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	St. Barnabas Medical Center 7/06 to present <i>Dept. Radiation Oncology</i>	n/a	n/a
Safety procedures for the device use	St. Barnabas Medical Center 7/06 to present <i>Dept. Radiation Oncology</i>	n/a	n/a
Clinical use of the device	St. Barnabas Medical Center 7/06 to present <i>Dept. Radiation Oncology</i>	n/a	n/a
Treatment planning system operation	St. Barnabas Medical Center 7/06 to present <i>Dept. Radiation oncology</i>		

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.)*

Mark Kao  
License/Permit Number listing supervising individual as an authorized Medical Physicist  
29-01608-03

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 Physician  
10 CFR 35.51(a)(1) and (a)(2).

**OR**

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

I attest that Richard Shaw has satisfactorily completed the 1-year of full-time  
Name of Proposed Authorized Medical Physician  
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 Richard Shaw has training for the types of use for which authorization  
Name of Proposed Authorized Medical Physician  
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 Richard Shaw has achieved a level of competency sufficient to  
Name of Proposed Authorized Medical Physician  
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 Mark Kao	Signature 	Telephone Number 973 322 5698	Date Aug 13, 07
License/Permit Number/Facility Name 29-01608-03 St. Barnabas Medical Center			

**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

DA GUANG XU

- 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**
- a. Provide a copy of the board certification.
- b. 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.
- c. Skip to and complete Part II Preceptor Attestation.
- 2. Current Authorized Medical Physicist Seeking Additional Authorization for use(s) checked above**
- a. Go to the table in section 3.c. to document training for new device.
- b. Skip to and complete Part II Preceptor Attestation
- 3. Education, Training, and Experience for Proposed Authorized Medical Physicist**
- a. 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	Major Field
Ph. D.	Physics
College or University	
University of Alabama at Birmingham	

b. 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. James M. Galvin 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 \_\_\_\_\_ 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	Thomas Jefferson Univ.	7/1/04 ~ 6/30/06	
Performing sealed source leak tests and inventories	Thomas Jefferson Univ.	7/15/05 ~ 6/30/06	
Performing decay corrections	Thomas Jefferson Univ.	7/15/05 ~ 6/30/06	
Performing full calibration and periodic spot checks of external beam treatment unit(s)	Thomas Jefferson Univ.	7/1/04 ~ 6/30/06	
Performing full calibration and periodic spot checks of stereotactic radiosurgery unit(s)			
Performing full calibration and periodic spot checks of remote afterloading unit(s)	Thomas Jefferson Univ.	07/15/04 ~ 6/30/06	
Conducting radiation surveys around external beam treatment unit(s), stereotactic radiosurgery unit(s), remote after loading unit(s)	Thomas Jefferson Univ.	07/15/04 ~ 6/30/06	

Supervising Individual\*\*

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

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	Nucletron Micro Selection HDR Mr. Chris Houser		
Safety procedures for the device use	Mr. Chris Houser Nucletron Micro selection HDR		
Clinical use of the device	Mr. Chris Houser Nucletron Micro selection HDR		
Treatment planning system operation	Mr. Chris Houser Plato (BPS) (Nucletron)		

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.)*

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

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 DA GUANG XU 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 DA GUANG XU 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 DA GUANG XU 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>James M. Galvin</u>	Signature <u>James M. Galvin</u>	Telephone Number <u>2159558855</u>	Date <u>9/13/07</u>
License/Permit Number/Facility Name <u>37-00148-06</u>			

**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

DA GUANG XU

- 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**

- a. Provide a copy of the board certification.
- b. 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.
- c. Skip to and complete Part II Preceptor Attestation.

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

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

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

- a. 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 <p style="text-align: center; font-size: 1.2em;">Ph. D</p>	Major Field <p style="text-align: center; font-size: 1.2em;">Physics</p>
College or University <p style="text-align: center; font-size: 1.2em;">University of Alabama at Birmingham</p>	

- b. 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 \_\_\_\_\_ 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. Mark KAO 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	Saint Barnabas Medical Center		7/10/06 ~ present
Performing sealed source leak tests and inventories	Saint Barnabas Medical Center		7/10/06 ~ present
Performing decay corrections	Saint Barnabas Medical Center		7/10/06 ~ present
Performing full calibration and periodic spot checks of external beam treatment unit(s)	Saint Barnabas Medical Center		7/10/06 ~ present
Performing full calibration and periodic spot checks of stereotactic radiosurgery unit(s)			
Performing full calibration and periodic spot checks of remote afterloading unit(s)	Saint Barnabas Medical Center		7/10/06 ~ present
Conducting radiation surveys around external beam treatment unit(s), stereotactic radiosurgery unit(s), remote after loading unit(s)	Saint Barnabas Medical Center		7/10/06 ~ present

Supervising Individual\*\*

Dr. Mark KAO

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

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	Dr. Mark KAO		
Safety procedures for the device use	Dr. Mark KAO		
Clinical use of the device	Dr. Mark KAO		
Treatment planning system operation	Dr. Mark KAO		

Supervising Individual License/Permit Number listing supervising individual as an authorized Medical Physicist  
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.)

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		Dr. Ira Garellick	7/11/07

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 Da-Guang Xu 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 Da-Guang Xu 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 Da-Guang Xu 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)

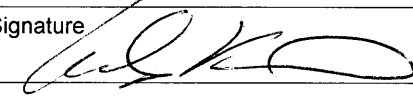
**AND**

**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>Mark Kao, PhD</u>	Signature 	Telephone Number <u>972-322-5698</u>	Date <u>9/21/07</u>
License/Permit Number/Facility Name <u>NRC #29-01608-03 St. Barnabas Medical Ctr</u>			

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

9/24/2007, and to inform you that the initial processing which includes an administrative review has been performed.

AMEND. 29-01602-03  
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

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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** 141140.  
When calling to inquire about this action, please refer to this control number.  
You may call us on (610) 337-5398, or 337-5260.