



The Hospital of Central Connecticut

at New Britain General and Bradley Memorial

100 Grand Street
New Britain, CT 06050
860-224-5011

81 Meriden Avenue
Southington, CT 06489
860-271-5000

www.thccc.org

Laurence A. Tanner, President

January 9, 2009

K-8

Licensing Assistant Section
Nuclear Materials Safety Branch
U.S. Nuclear Regulatory Commission, Region 1
475 Allendale Road
King of Prussia, PA 19406-1415

Dear Sir or Madam:

03001250

Attached is an amendment request on our facilities NRC license (license number: 06-02388-01).

The Hospital of Central Connecticut is requesting the following changes to our NRC license.

- Remove Della Leahy from the list of authorized medical physicists. She is no longer employed at this facility.
- Add Anwar Khan, M.D. as an authorized user (Iridium-192 for uses in a High Dose Rate Remote Afterloader Unit). Attached is NRC Form 313A (AUS) in support of this change.

If you have any technical question regarding this amendment request, please do not hesitate to contact me at (860) 224-5520 or by e-mail at gp219@columbia.edu

Prepared by:

George Pavlounis, III M.S. DABR
American Board of Radiology Certified Medical Physicist

Reviewed and Approved by:

Clarence Silvia
Senior Vice President, The Hospital of Central Connecticut

RECEIVED
REGION 1
2009 JAN 20 PM 1:48

143115

**AUTHORIZED USER TRAINING AND EXPERIENCE
AND PRECEPTOR ATTESTATION**
(for uses defined under 35.400 and 35.600)
[10 CFR 35.490, 35.491, and 35.690]APPROVED BY OMB: NO. 3150-0120
EXPIRES: 10/31/2008

Name of Proposed Authorized User

Anwar M. Khan

State or Territory Where Licensed

+ Connecticut +

Requested**Authorization(s)**

(check all that apply)

- ☐ 35.400 Manual brachytherapy sources ☐ 35.600 Teletherapy unit(s)
☐ 35.400 Ophthalmic use of strontium-90 ☐ 35.600 Gamma stereotactic radiosurgery unit(s)
☒ 35.600 Remote afterloader 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. For 35.600, go to the table in 3.e. 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 35.600 Authorized User Requesting Additional Authorization for 35.600 Use(s) Checked Above**

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

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

- a. Classroom and Laboratory Training ☐ 35.490 ☐ 35.491 ☒ 35.690

Description of Training	Location of Training	Clock Hours	Dates of Training*
Radiation physics and instrumentation	Yale Medical School	100	1999-2000
Radiation protection	"	50	"
Mathematics pertaining to the use and measurement of radioactivity	"	50	"
Radiation biology	"	300	"

Total Hours of Training:

AUTHORIZED USER TRAINING AND EXPERIENCE AND PRECEPTOR ATTESTATION (continued)

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

b. Supervised Work and Clinical Experience for 10 CFR 35.490 (If more than one supervising individual is necessary to document supervised work experience, provide multiple copies of this page.)

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	n/a	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Checking survey meters for proper operation	n/a	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Preparing, implanting, and safely removing brachytherapy sources	n/a	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Maintaining running inventories of material on hand	n/a	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Using administrative controls to prevent a medical event involving the use of byproduct material	n/a	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Using emergency procedures to control byproduct material	n/a	<input type="checkbox"/> Yes <input type="checkbox"/> No	

Clinical experience in radiation oncology as part of an approved formal training program	Location of Experience/License or Permit Number of Facility	Dates of Experience*
Approved by: <input type="checkbox"/> Residency Review Committee for Radiation Oncology of the ACGME <input type="checkbox"/> Royal College of Physicians and Surgeons of Canada <input type="checkbox"/> Committee on Postdoctoral Training of the American Osteopathic Association	n/a	
Supervising Individual		License/Permit Number listing supervising individual as an Authorized User

AUTHORIZED USER TRAINING AND EXPERIENCE AND PRECEPTOR ATTESTATION (continued)

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

c. Supervised Clinical Experience for 10 CFR 35.491

Description of Experience	Location of Experience/License or Permit Number of Facility	Clock Hours	Dates of Experience*
Use of strontium-90 for ophthalmic treatment, including: examination of each individual to be treated; calculation of the dose to be administered; administration of the dose; and follow up and review of each individual's case history	n/a		
Supervising Individual		License/Permit Number listing supervising individual as an Authorized User	

d. Supervised Work and Clinical Experience for 10 CFR 35.690

☒ Remote afterloader unit(s)

☐ Teletherapy unit(s)



☐ Gamma stereotactic radiosurgery unit(s)

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*
Reviewing full calibration measurements and periodic spot-checks	The Hospital of Central Connecticut, New Britain, CT : 06-02388-01	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	1/1/08 → 11/10/08
Preparing treatment plans and calculating treatment doses and times	The Hospital of Central Connecticut, New Britain, CT : 06-02388-01	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	1/1
Using administrative controls to prevent a medical event involving the use of byproduct material	The Hospital of Central Connecticut, New Britain, CT : 06-02388-01	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	1/1
Implementing emergency procedures to be followed in the event of the abnormal operation of the medical unit or console	The Hospital of Central Connecticut, New Britain, CT : 06-02388-01	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	1/1
Checking and using survey meters	The Hospital of Central Connecticut, New Britain, CT : 06-02388-01	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	1/1
Selecting the proper dose and how it is to be administered	The Hospital of Central Connecticut, New Britain, CT : 06-02388-01	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	1/1

AUTHORIZED USER TRAINING AND EXPERIENCE AND PRECEPTOR ATTESTATION (continued)

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

d. Supervised Work and Clinical Experience for 10 CFR 35.690 (continued)

Clinical experience in radiation oncology as part of an approved formal training program	Location of Experience/License or Permit Number of Facility	Dates of Experience*
Approved by: <input checked="" type="checkbox"/> Residency Review Committee for Radiation Oncology of the ACGME <input type="checkbox"/> Royal College of Physicians and Surgeons of Canada <input type="checkbox"/> Committee on Postdoctoral Training of the American Osteopathic Association	New Britain General Hospital	11/1/08 - 11/12/08
Supervising Individual  		License/Permit Number listing supervising individual as an Authorized User

e. For 35.600, 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
Device operation	Neal Goldberg, AU 10/29/08 & 11/12/08 Gamma Med 3/24	n/a	n/a
Safety procedures for the device use	Neal Goldberg, AU 10/29/08 & 11/12/08 Gamma Med 3/24	n/a	n/a
Clinical use of the device	Neal Goldberg, AU 10/29/08 & 11/12/08 Gamma Med 3/24	n/a	n/a
Supervising Individual. If training provided by Supervising Individual (If more than one supervising individual is necessary to document supervised work experience, provide multiple copies of this page.) George Pavlounis, AMP		License/Permit Number listing supervising individual as an Authorized User 06-02388-01	
Authorized for the following types of use: <input checked="" type="checkbox"/> Remote afterloader unit(s) <input type="checkbox"/> Teletherapy unit(s) <input type="checkbox"/> Gamma stereotactic radiosurgery unit(s)			

f. Provide completed Part II Preceptor Attestation.

AUTHORIZED USER TRAINING AND EXPERIENCE AND PRECEPTOR ATTESTATION (continued)

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

d. Supervised Work and Clinical Experience for 10 CFR 35.690 (continued)

Clinical experience in radiation oncology as part of an approved formal training program	Location of Experience/License or Permit Number of Facility	Dates of Experience
Approved by: <input type="checkbox"/> Residency Review Committee for Radiation Oncology of the ACGME <input type="checkbox"/> Royal College of Physicians and Surgeons of Canada <input type="checkbox"/> Committee on Postdoctoral Training of the American Osteopathic Association		
Supervising Individual	License/Permit Number listing supervising individual as an Authorized User	

e. For 35.600, 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
Device operation	George Pavlonnis, AMP 10/29/08 & 11/12/08	n/a	n/a
Safety procedures for the device use	George Pavlonnis, AMP 10/29/08 & 11/12/08	n/a	n/a
Clinical use of the device	George Pavlonnis, AMP 10/29/08 & 11/12/08	n/a	n/a
Supervising Individual. <i>If training provided by Supervising Individual (if more than one supervising individual is necessary to document supervised work experience, provide multiple copies of this page.)</i> George Pavlonnis, AMP		License/Permit Number listing supervising individual as an Authorized User 06-02388-01	
Authorized for the following types of use: <input checked="" type="checkbox"/> Remote afterloader unit(s) <input type="checkbox"/> Teletherapy unit(s) <input type="checkbox"/> Gamma stereotactic radiosurgery unit(s)			

f. Provide completed 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.

By checking the boxes below, the preceptor is attesting that the individual has knowledge to fulfill the duties of the position sought and not attesting to the individual's "general clinical competency."

First Section

Check one of the following for each requested authorization:

For 35.490:

Board Certification

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

35.490(a)(1) and has achieved a level of competency sufficient to function independently as an authorized user of manual brachytherapy sources for the medical uses authorized under 10 CFR 35.400.

OR

Training and Experience

☐ I attest that _____ has satisfactorily completed the 200 hours of
Name of Proposed Authorized User

classroom and laboratory training, 500 hours of supervised work experience, and 3 years of supervised clinical experience in radiation oncology, as required by 10 CFR 35.490(b)(1) and (b)(2), and has achieved a level of competency sufficient to function independently as an authorized user of manual brachytherapy sources for the medical uses authorized under 10 CFR 35.400.

For 35.491:

☐ I attest that _____ has satisfactorily completed the 24 hours of
Name of Proposed Authorized User

classroom and laboratory training applicable to the medical use of strontium-90 for ophthalmic radiotherapy, has used strontium-90 for ophthalmic treatment of 5 individuals, as required by 10 CFR 35.491(b), and has achieved a level of competency sufficient to function independently as an authorized user of strontium-90 for ophthalmic use.

Second Section

For 35.690:

Board Certification

☐ I attest that _____ has satisfactorily completed the requirements in
Name of Proposed Authorized User
35.690(a)(1).

OR

Training and Experience

☒ I attest that **Anwar M. Khan** has satisfactorily completed 200 hours of classroom
Name of Proposed Authorized User

and laboratory training, 500 hours of supervised work experience, and 3 years of supervised clinical experience in radiation therapy, as required by 10 CFR 35.690(b)(1) and (b)(2).

AND

AUTHORIZED USER TRAINING AND EXPERIENCE AND PRECEPTOR ATTESTATION (continued)

Preceptor Attestation (continued)

Third Section

For 35.690: (continued)

☒ I attest that Anwar M. Khan has received training required in 35.690(c) for device
Name of Proposed Authorized User
operation, safety procedures, and clinical use for the type(s) of use for which authorization is sought, as
checked below.

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

AND

Fourth Section

☒ I attest that Anwar M. Khan has achieved a level of competency sufficient to
Name of Proposed Authorized User
achieve a level of competency sufficient to function independently as an authorized user for:

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

Fifth Section

Complete the following for preceptor attestation and signature:

☒ I meet the requirements in 10 CFR 35.490, 35.491, 35.690, or equivalent Agreement State requirements, as
an authorized user for:

☐ 35.400 Manual brachytherapy sources ☐ 35.600 Teletherapy unit(s)

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

☒ 35.600 Remote afterloader unit(s)

Name of Preceptor

Neal Goldberg, MD (AU)

Signature

Neal Goldberg

Telephone Number

(860) 224-5520

Date

11/13/08

License/Permit Number/Facility Name

06-02388-01: The Hospital of Central Connecticut

The American Board of Radiology

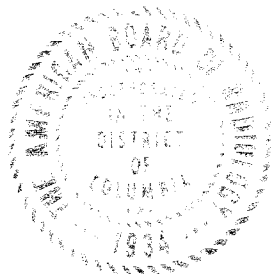
*Organized through the cooperation of the
American College of Radiology, the American Roentgen Ray Society,
the American Radium Society, the Radiological Society of North America,
the Section on Radiology of the American Medical Association,
the American Society for Therapeutic Radiology and Oncology, the Association of
University Radiologists, and American Association of Physicists in Medicine*
Hereby certifies that

Anwar M. Khan, MD

*Has pursued an accepted course of graduate study
and clinical work, has met certain standards and qualifications and
has passed the examinations conducted under the authority of
The American Board of Radiology*

*On this seventh day of June, 2005
Thereby demonstrating to the satisfaction of the Board
that he is qualified to practice the specialty of*

Radiation Oncology



Certificate No. 51819

Steven A. Licht, M.D.
President

Michael T. Hoppe MD
Secretary-Treasurer

P.R. Hatten
Executive Director



Valid through 2015