

## Hammond, Michelle

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**From:** Hammond, Michelle  
**Sent:** Thursday, October 25, 2012 7:54 AM  
**To:** 'mark.bower@us.army.mil'  
**Subject:** Re: REQUEST FOR ADDITIONAL INFORMATION  
**Attachments:** image001.png

License No.: 42-01368-01  
Docket No.: 030-03258  
Control No.: 578020

Dear COL. Mark Bower:

This is in reference to your amendment request dated July 18, 2012 requesting to change the RSO for the Nuclear Regulatory Commission License No. 42-01368-01. In order to continue our review, we need the following additional information:

- 1) Please provide Page 6 of LTC Pitcher's NRC Form 313A (Signature of Preceptor Attestation- for 35.600 Remote Afterloader Units and 35.1000 Emerging Technologies Y-90 microspheres).
- 2) Please provide contact information for Proposed RSO: LTC Christopher Pitcher. Include e-mail address, office phone number, and cell phone number.

We will continue our review upon receipt of this information. Please reply to my attention and refer to Mail Control No. 578020. If you reply via email, please attach the requested documentation in PDF format or you may fax your response to (817) 200-1188.

**Please respond to my request no later than November 1, 2012 so that I may process this amendment as soon as possible.**

If you have any technical questions regarding this deficiency letter, please call me at (817) 200-1127.

*Best Regards,*

*Michelle M. Hammond, M.Sc.  
Health Physicist  
Region IV-Division of Nuclear Materials Safety, Branch B  
office) 817-200-1127  
fax) 817-200-1188*



## Hammond, Michelle

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**From:** Bower, Mark W COL MIL USA MEDCOM HQ [mark.bower@us.army.mil]  
**Sent:** Thursday, October 25, 2012 8:03 AM  
**To:** Hammond, Michelle  
**Cc:** Pitcher, Christopher LTC MIL USA MEDCOM AMEDDCS  
**Subject:** RE: REQUEST FOR ADDITIONAL INFORMATION (UNCLASSIFIED)  
**Attachments:** Pitcher NRC Forms 313a (original + HDR & Y-90).pdf

Classification: UNCLASSIFIED  
Caveats: NONE

Ms. Hammond,

My apologies I thought we sent everything for LTC Pitcher but if we missed the page 6 of his NRC Form 313A it is in the attached (second to the last page). The current computer I'm using doesn't have the capability of separating out the single page, hope that isn't a problem.

LTC Pitcher's contact information is as follows:  
Email: [Christopher.Pitcher@us.army.mil](mailto:Christopher.Pitcher@us.army.mil)  
Office phone: 210 295-2411  
Cell phone: 210 439-1317

COL Mark W. Bower, PhD, CHP  
Dir, Proponency Office for Preventive Medicine - San Antonio  
72A Consultant  
MEDCOM Radiological Safety Staff Officer  
2748 Worth Road, Suite 25  
Fort Sam Houston, TX 78234  
210-221-7952/6612  
DSN 471-7952/6612

-----Original Message-----

From: Hammond, Michelle [<mailto:Michelle.Hammond@nrc.gov>]  
Sent: Thursday, October 25, 2012 7:54 AM  
To: Bower, Mark W COL MIL USA MEDCOM HQ  
Subject: Re: REQUEST FOR ADDITIONAL INFORMATION

License No.: 42-01368-01

Docket No.: 030-03258

Control No.: 578020

Dear COL. Mark Bower:

This is in reference to your amendment request dated July 18, 2012 requesting to change the RSO for the Nuclear Regulatory Commission License No. 42-01368-01. In order to continue our review, we need the following additional information:

1) Please provide Page 6 of LTC Pitcher's NRC Form 313A (Signature of Preceptor Attestation- for 35.600 Remote Afterloader Units and 35.1000 Emerging Technologies Y-90 microspheres).

2) Please provide contact information for Proposed RSO: LTC Christopher Pitcher. Include e-mail address, office phone number, and cell phone number.

We will continue our review upon receipt of this information. Please reply to my attention and refer to Mail Control No. 578020. If you reply via email, please attach the requested documentation in PDF format or you may fax your response to (817) 200-1188.

Please respond to my request no later than November 1, 2012 so that I may process this amendment as soon as possible.

If you have any technical questions regarding this deficiency letter, please call me at (817) 200-1127.

Best Regards,

Michelle M. Hammond, M.Sc.

Health Physicist

Region IV-Division of Nuclear Materials Safety, Branch B

office) 817-200-1127

fax) 817-200-1188

NRC

Classification: UNCLASSIFIED  
Caveats: NONE

**RADIATION SAFETY OFFICER TRAINING AND EXPERIENCE  
AND PRECEPTOR ATTESTATION**  
[10 CFR 35.50]

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

Name of Proposed Radiation Safety Officer

Christopher David Pitcher

Requested Authorization(s) *The license authorizes the following medical uses (check all that apply):*

- 35.100   
  35.200   
  35.300   
  35.400   
  35.500   
  35.600 (remote afterloader)  
 35.600 (teletherapy)   
  35.600 (gamma stereotactic radiosurgery)   
  35.1000 ( \_\_\_\_\_ )

**PART I -- TRAINING AND EXPERIENCE**  
(Select one of the four 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. Use Table 3.c. to describe training in radiation safety, regulatory issues, and emergency procedures for all types of medical use on the license.
- c. Skip to and complete Part II Preceptor Attestation.

OR

**2. Current Radiation Safety Officer Seeking Authorization to Be Recognized as a Radiation Safety Officer for the Additional Medical Uses Checked Above**

- a. Use the table in section 3.c. to describe training in radiation safety, regulatory issues, and emergency procedures for the additional types of medical use for which recognition as RSO is sought.
- b. Skip to and complete Part II Preceptor Attestation.

OR

**3. Structured Educational Program for Proposed Radiation Safety Officer**

a. Classroom and Laboratory Training

Description of Training	Location of Training	Clock Hours	Dates of Training*
Radiation physics and instrumentation	University of Florida, Gainesville, FL	285	Aug '89 - Dec '95
Radiation protection	University of Florida, Gainesville, FL	210	Aug '89 - Dec '95
Mathematics pertaining to the use and measurement of radioactivity	University of Florida, Gainesville, FL	330	Aug '89 - Dec '95
Chemistry of byproduct material for medical use	University of Florida, Gainesville, FL	165	Aug '89 - Dec '95
Radiation biology	University of Florida, Gainesville, FL	45	Aug '89 - Dec '95

**Total Hours of Training:** 1035

**RADIATION SAFETY OFFICER TRAINING AND EXPERIENCE AND PRECEPTOR ATTESTATION (continued)**

**3. Structured Educational Program for Proposed Radiation Safety Officer (continued)**

**b. Supervised Radiation Safety 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 Training/ License or Permit Number of Facility	Dates of Training*
Shipping, receiving, and performing related radiation surveys	Martin Army Community Hospital, Fort Benning, GA Walter Reed Army Medical Center, Washington, D.C.	Jan '99 - Aug '01 Aug '04 - Aug '06
Using and performing checks for proper operation of instruments used to determine the activity of dosages, survey meters, and instruments used to measure radionuclides	Martin Army Community Hospital, Fort Benning, GA Walter Reed Army Medical Center, Washington, D.C.	Jan '99 - Aug '01 Aug '04 - Aug '06
Securing and controlling byproduct material	Martin Army Community Hospital, Fort Benning, GA Walter Reed Army Medical Center, Washington, D.C.	Jan '99 - Aug '01 Aug '04 - Aug '06
Using administrative controls to avoid mistakes in administration of byproduct material	Martin Army Community Hospital, Fort Benning, GA Walter Reed Army Medical Center, Washington, D.C.	Jan '99 - Aug '01 Aug '04 - Aug '06
Using procedures to prevent or minimize radioactive contamination and using proper decontamination procedures	Martin Army Community Hospital, Fort Benning, GA Walter Reed Army Medical Center, Washington, D.C.	Jan '99 - Aug '01 Aug '04 - Aug '06
Using emergency procedures to control byproduct material	Martin Army Community Hospital, Fort Benning, GA Walter Reed Army Medical Center, Washington, D.C.	Jan '99 - Aug '01 Aug '04 - Aug '06
Disposing of byproduct material	Martin Army Community Hospital, Fort Benning, GA Walter Reed Army Medical Center, Washington, D.C.	Jan '99 - Aug '01 Aug '04 - Aug '06
Licensed Material Used (e.g., 35.100, 35.200, etc.)+ <u>35.100, 35.200, 35.300, 35.400, 35.500 (Teletherapy)</u> _____ _____	Martin Army Community Hospital, Fort Benning, GA Walter Reed Army Medical Center, Washington, D.C.	Jan '99 - Aug '01 Aug '04 - Aug '06

+ Choose all applicable sections of 10 CFR Part 35 to describe radioisotopes and quantities used: 35.100, 35.200, 35.300, 35.400, 35.500, 35.600 remote afterloader units, 35.600 teletherapy units, 35.600 gamma stereotactic radiosurgery units, emerging technologies (provide list of devices).

**RADIATION SAFETY OFFICER TRAINING AND EXPERIENCE AND PRECEPTOR ATTESTATION (continued)**

**3. Structured Educational Program for Proposed Radiation Safety Officer (continued)**

**b. Supervised Radiation Safety Experience. (continued)**

*(If more than one supervising individual is necessary to document supervised work experience, provide multiple copies of this section.)*

Supervising Individual  Mark A. Melanson	License/Permit Number listing supervising individual as a Radiation Safety Officer  NRC License # 08-01738-02
This license authorizes the following medical uses:	
<input checked="" type="checkbox"/> 35.100 <input checked="" type="checkbox"/> 35.200 <input checked="" type="checkbox"/> 35.300	<input checked="" type="checkbox"/> 35.400
<input type="checkbox"/> 35.500 <input type="checkbox"/> 35.600 (remote afterloader)	<input checked="" type="checkbox"/> 35.600 (teletherapy)
<input type="checkbox"/> 35.600 (gamma stereotactic radiosurgery)	<input type="checkbox"/> 35.1000 ( _____ )

**c. Describe training in radiation safety, regulatory issues, and emergency procedures for all types of medical use on the license.**

Description of Training	Training Provided By	Dates of Training*
Radiation safety, regulatory issues, and emergency procedures for 35.100, 35.200, and 35.500 uses	COL Mark A. Melanson, CHP, PhD, Radiation Safety Officer	Apr '05 – Aug '06
Radiation safety, regulatory issues, and emergency procedures for 35.300 uses	COL Mark A. Melanson, CHP, PhD, Radiation Safety Officer	Apr '05 – Aug '06
Radiation safety, regulatory issues, and emergency procedures for 35.400 uses	COL Mark A. Melanson, CHP, PhD, Radiation Safety Officer	Apr '05 – Aug '06
Radiation safety, regulatory issues, and emergency procedures for 35.600 - teletherapy uses	COL Mark A. Melanson, CHP, PhD, Radiation Safety Officer	Apr '05 – Aug '06
Radiation safety, regulatory issues, and emergency procedures for 35.600 - remote afterloader uses	N/A	
Radiation safety, regulatory issues, and emergency procedures for 35.600 - gamma stereotactic radiosurgery uses	N/A	
Radiation safety, regulatory issues, and emergency procedures for 35.1000, specify use(s):	N/A	

**RADIATION SAFETY OFFICER TRAINING AND EXPERIENCE AND PRECEPTOR ATTESTATION (continued)**

**3. Structured Educational Program for Proposed Radiation Safety Officer (continued)**

c. Training in radiation safety, regulatory issues, and emergency procedures for all types of medical use on the license (continued)

Supervising Individual <i>If training was provided by supervising RSO, AU, AMP, or ANP. (If more than one supervising individual is necessary to document supervised training, provide multiple copies of this page.)</i>  Mark A. Melanson	License/Permit Number listing supervising individual  NRC License # 08-01738-02
License/Permit lists supervising individual as: <input checked="" type="checkbox"/> Radiation Safety Officer <input type="checkbox"/> Authorized User <input type="checkbox"/> Authorized Nuclear Pharmacist <input type="checkbox"/> Authorized Medical Physicist	
Authorized as RSO, AU, ANP, or AMP for the following medical uses: <input checked="" type="checkbox"/> 35.100 <input checked="" type="checkbox"/> 35.200 <input checked="" type="checkbox"/> 35.300 <input checked="" type="checkbox"/> 35.400 <input type="checkbox"/> 35.500 <input type="checkbox"/> 35.600 (remote afterloader) <input checked="" type="checkbox"/> 35.600 (teletherapy) <input type="checkbox"/> 35.600 (gamma stereotactic radiosurgery) <input type="checkbox"/> 35.1000 ( _____ )	

d. Skip to and complete Part II Preceptor Attestation.

**OR**

**4. Authorized User, Authorized Medical Physicist, or Authorized Nuclear Pharmacist identified on the licensee's license**

- a. Provide license number.
- b. Use the table in section 3.c. to describe training in radiation safety, regulatory issues, and emergency procedures for all types of medical use on the license.
- c. Skip to and complete Part II Preceptor Attestation.

**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 Radiation Safety Officer

10 CFR 35.50(a)(1)(i) and (a)(1)(ii); or 35.50 (a)(2)(i) and (a)(2)(ii); or 35.50(c)(1).

**OR**

**2. Structured Educational Program for Proposed Radiation Safety Officers**

I attest that Christopher D. Pitcher has satisfactorily completed a structural educational  
Name of Proposed Radiation Safety Officer

program consisting of both 200 hours of classroom and laboratory training and one year of full-time radiation safety experience as required by 10 CFR 35.50(b)(1).

**OR**

**RADIATION SAFETY OFFICER TRAINING AND EXPERIENCE AND PRECEPTOR ATTESTATION (continued)**

**Preceptor Attestation (continued)**

**First Section (continued)**  
**Check one of the following:**

**3. Additional Authorization as Radiation Safety Officer**

I attest that \_\_\_\_\_ is an  
Name of Proposed Radiation Safety Officer

Authorized User

Authorized Nuclear Pharmacist

Authorized Medical Physicist

identified on the Licensees license and has experience with the radiation safety aspects of similar type of use of byproduct material for which the individual has Radiation Safety Officer responsibilities

-----  
**AND**

**Second Section**  
**Complete for all (check all that apply):**

I attest that Christopher D. Pitcher has training in the radiation safety, regulatory issues, and  
Name of Proposed Radiation Safety Officer

emergency procedures for the following types of use:

35.100

35.200

35.300 oral administration of less than or equal to 33 millicuries of sodium iodide I-131, for which a written directive is required

35.300 oral administration of greater than 33 millicuries of sodium iodide I-131

35.300 parenteral administration of any beta-emitter, or a photon-emitting radionuclide with a photon energy less than 150 keV for which a written directive is required

35.300 parenteral administration of any other radionuclide for which a written directive is required

35.400

35.500

35.600 remote afterloader units

35.600 teletherapy units

35.600 gamma stereotactic radiosurgery units

35.1000 emerging technologies, including:  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_



RADIATION SAFETY OFFICER TRAINING AND EXPERIENCE AND PRECEPTOR ATTESTATION (continued)

AND


Third Section  
Complete for ALL

I attest that Christopher D. Pitcher has achieved a level of radiation safety knowledge  
Name of Proposed Radiation Safety Officer  
sufficient to function independently as a Radiation Safety Officer for a medical use licensee.

Fourth Section  
Complete the following for Preceptor Attestation and signature

I am the Radiation Safety Officer for Walter Reed Army Medical Center, Washington, D.C.  
Name of Facility

License/Permit Number: 08-01738-02

Name of Preceptor Mark A. Melanson, CHP, PhD	Signature 	Telephone Number (202) 356-0060	Date 15 Aug 2006
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**RADIATION SAFETY OFFICER TRAINING AND EXPERIENCE  
AND PRECEPTOR ATTESTATION  
[10 CFR 35.50]**

APPROVED BY OMB: NO. 3150-0120  
EXPIRES: 3/31/2012

Name of Proposed Radiation Safety Officer

Christopher Pitcher

Requested Authorization(s) *The license authorizes the following medical uses (check all that apply):*

- 35.100     35.200     35.300     35.400     35.500     35.600 (remote afterloader)  
 35.600 (teletherapy)     35.600 (gamma stereotactic radiosurgery)     35.1000 ( Y90 microsphere )

**PART I -- TRAINING AND EXPERIENCE**  
*(Select one of the four 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. Use Table 3.c. to describe training in radiation safety, regulatory issues, and emergency procedures for all types of medical use on the license.
- c. Skip to and complete Part II Preceptor Attestation.

OR

**2. Current Radiation Safety Officer Seeking Authorization to Be Recognized as a Radiation Safety Officer for the Additional Medical Uses Checked Above**

- a. Use the table in section 3.c. to describe training in radiation safety, regulatory issues, and emergency procedures for the additional types of medical use for which recognition as RSO is sought.
- b. Skip to and complete Part II Preceptor Attestation.

OR

**3. Structured Educational Program for Proposed Radiation Safety Officer**

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			
Radiation biology			
Radiation dosimetry			
<b>Total Hours of Training:</b>			

**RADIATION SAFETY OFFICER TRAINING AND EXPERIENCE AND PRECEPTOR ATTESTATION (continued)**

**3. Structured Educational Program for Proposed Radiation Safety Officer (continued)**

**b. Supervised Radiation Safety Experience (continued)**

*(If more than one supervising individual is necessary to document supervised work experience, provide multiple copies of this section.)*

Supervising Individual	License/Permit Number listing supervising individual as a Radiation Safety Officer
This license authorizes the following medical uses: <input type="checkbox"/> 35.100 <input type="checkbox"/> 35.200 <input type="checkbox"/> 35.300 <input type="checkbox"/> 35.400 <input type="checkbox"/> 35.500 <input type="checkbox"/> 35.600 (remote afterloader) <input type="checkbox"/> 35.600 (teletherapy) <input type="checkbox"/> 35.600 (gamma stereotactic radiosurgery) <input type="checkbox"/> 35.1000 ( _____ )	

**c. Describe training in radiation safety, regulatory issues, and emergency procedures for all types of medical use on the license.**

Description of Training	Training Provided By	Dates of Training*
Radiation safety, regulatory issues, and emergency procedures for 35.100, 35.200, and 35.500 uses		
Radiation safety, regulatory issues, and emergency procedures for 35.300 uses		
Radiation safety, regulatory issues, and emergency procedures for 35.400 uses		
Radiation safety, regulatory issues, and emergency procedures for 35.600 - teletherapy uses		
Radiation safety, regulatory issues, and emergency procedures for 35.600 - remote afterloader uses	Brooke Army Medical Center and Nucletron Corporation	5-6 Jun 2012
Radiation safety, regulatory issues, and emergency procedures for 35.600 - gamma stereotactic radiosurgery uses		
Radiation safety, regulatory issues, and emergency procedures for 35.1000, specify use(s):	Y-90 microsphere brachytherapy Brooke Army Medical Center	May - Jun 2012

**RADIATION SAFETY OFFICER TRAINING AND EXPERIENCE AND PRECEPTOR ATTESTATION (continued)**

**Preceptor Attestation (continued)**

**First Section (continued)**

Check one of the following:

**3. Additional Authorization as Radiation Safety Officer**

I attest that \_\_\_\_\_ is an  
Name of Proposed Radiation Safety Officer

Authorized User

Authorized Nuclear Pharmacist

Authorized Medical Physicist

identified on the Licensees license and has experience with the radiation safety aspects of similar type of use of byproduct material for which the individual has Radiation Safety Officer responsibilities

**AND**

**Second Section**

Complete for all (check all that apply):

I attest that Christopher Pitcher has training in the radiation safety, regulatory issues, and  
Name of Proposed Radiation Safety Officer

emergency procedures for the following types of use:

35.100

35.200

35.300 oral administration of less than or equal to 33 millicuries of sodium iodide I-131, for which a written directive is required

35.300 oral administration of greater than 33 millicuries of sodium iodide I-131

35.300 parenteral administration of any beta-emitter, or a photon-emitting radionuclide with a photon energy less than 150 keV for which a written directive is required

35.300 parenteral administration of any other radionuclide for which a written directive is required

35.400

35.500

35.600 remote afterloader units

35.600 teletherapy units

35.600 gamma stereotactic radiosurgery units

35.1000 emerging technologies, including:  
Y-90 microspheres

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

## Nucletron Training Seminar

Institution: Brooke Army Medical Center

City, State/Province, Zip: Fort Sam Houston, TX, United States

### 1 Teaching Aids Used

- User's Manual
- Applicators and Accessories
- Source Container and Dummy Sources
- Other

### 2 Topics Covered

- Explanation of Remote Afterloading
- Explanation of Radiation Protection

### 3 Applications

- Bronchus
- Interstitial
- Intracavitary
- Intraoperative

### 4 Applicators/Accessories

- Bronchus
- GYN
- Esophagus
- Interstitial
- Other

### 5 Equipment Operation

- Treatment Unit
- Handling
- Power Requirements
- Console
- Treatment
- Start
- Interrupt
- Emergency Stop
- Alarm and Error Codes

Radioactive Source: IR-192

### 6 Receiving

- Unpacking
- Acceptance
- Calibration
- Installation

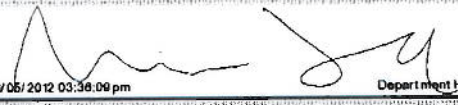
### 7 Shipping

- Release
- Packing
- Documents
- Measurements

Emergency Procedures

All areas marked were covered during training

  
08/05/2012 03:36:00 pm Instructor

  
08/05/2012 03:36:00 pm Department Head

Instructor

Department Head

Service Engineer

Physicist

Title

Title

\* List of all attendees accompanies this form

**RADIATION SAFETY OFFICER TRAINING AND EXPERIENCE  
AND PRECEPTOR ATTESTATION  
[10 CFR 35.50]**

Name of Proposed Radiation Safety Officer

Christopher Pitcher

Requested Authorization(s) *The license authorizes the following medical uses (check all that apply):*

- 35.100   
  35.200   
  35.300   
  35.400   
  35.500   
  35.600 (remote afterloader)  
 35.600 (teletherapy)   
  35.600 (gamma stereotactic radiosurgery)   
  35.1000 ( Y90 microsphere )

**PART I -- TRAINING AND EXPERIENCE  
(Select one of the four 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. Use Table 3.c. to describe training in radiation safety, regulatory issues, and emergency procedures for all types of medical use on the license.
- c. Skip to and complete Part II Preceptor Attestation.

OR

**2. Current Radiation Safety Officer Seeking Authorization to Be Recognized as a Radiation Safety Officer for the Additional Medical Uses Checked Above**

- a. Use the table in section 3.c. to describe training in radiation safety, regulatory issues, and emergency procedures for the additional types of medical use for which recognition as RSO is sought.
- b. Skip to and complete Part II Preceptor Attestation.

OR

**3. Structured Educational Program for Proposed Radiation Safety Officer**

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			
Radiation biology			
Radiation dosimetry			

**Total Hours of Training:**

**RADIATION SAFETY OFFICER TRAINING AND EXPERIENCE AND PRECEPTOR ATTESTATION (continued)**

**3. Structured Educational Program for Proposed Radiation Safety Officer (continued)**

b. Supervised Radiation Safety 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 Training/ License or Permit Number of Facility	Dates of Training*
Shipping, receiving, and performing related radiation surveys		
Using and performing checks for proper operation of instruments used to determine the activity of dosages, survey meters, and instruments used to measure radionuclides		
Securing and controlling byproduct material		
Using administrative controls to avoid mistakes in administration of byproduct material		
Using procedures to prevent or minimize radioactive contamination and using proper decontamination procedures		
Using emergency procedures to control byproduct material		
Disposing of byproduct material		
Licensed Material Used (e.g., 35.100, 35.200, etc.)+ _____ _____ _____		

+ Choose all applicable sections of 10 CFR Part 35 to describe radioisotopes and quantities used: 35.100, 35.200, 35.300, 35.400, 35.500, 35.600 remote afterloader units, 35.600 teletherapy units, 35.600 gamma stereotactic radiosurgery units, emerging technologies (provide list of devices).

**RADIATION SAFETY OFFICER TRAINING AND EXPERIENCE AND PRECEPTOR ATTESTATION (continued)**

**3. Structured Educational Program for Proposed Radiation Safety Officer (continued)**

b. Supervised Radiation Safety Experience (continued)

*(If more than one supervising individual is necessary to document supervised work experience, provide multiple copies of this section.)*

Supervising Individual	License/Permit Number listing supervising individual as a Radiation Safety Officer
This license authorizes the following medical uses:	
<input type="checkbox"/> 35.100	<input type="checkbox"/> 35.200
<input type="checkbox"/> 35.500	<input type="checkbox"/> 35.300
<input type="checkbox"/> 35.600 (gamma stereotactic radiosurgery)	<input type="checkbox"/> 35.400
	<input type="checkbox"/> 35.600 (teletherapy)
	<input type="checkbox"/> 35.1000 ( _____ )

c. Describe training in radiation safety, regulatory issues, and emergency procedures for all types of medical use on the license.

Description of Training	Training Provided By	Dates of Training*
Radiation safety, regulatory issues, and emergency procedures for 35.100, 35.200, and 35.500 uses		
Radiation safety, regulatory issues, and emergency procedures for 35.300 uses		
Radiation safety, regulatory issues, and emergency procedures for 35.400 uses		
Radiation safety, regulatory issues, and emergency procedures for 35.600 - teletherapy uses		
Radiation safety, regulatory issues, and emergency procedures for 35.600 - remote afterloader uses	Brooke Army Medical Center and Nucletron Corporation	5-6 Jun 2012
Radiation safety, regulatory issues, and emergency procedures for 35.600 - gamma stereotactic radiosurgery uses		
Radiation safety, regulatory issues, and emergency procedures for 35.1000, specify use(s):	Y-90 microsphere brachytherapy Brooke Army Medical Center	May - Jun 2012



**RADIATION SAFETY OFFICER TRAINING AND EXPERIENCE AND PRECEPTOR ATTESTATION (continued)**

**3. Structured Educational Program for Proposed Radiation Safety Officer (continued)**

c. Training in radiation safety, regulatory issues, and emergency procedures for all types of medical use on the license (continued)

Supervising Individual <i>If training was provided by supervising RSO, AU, AMP, or ANP. (If more than one supervising individual is necessary to document supervised training, provide multiple copies of this page.)</i>  <b>COL Mark W. Bower, CHP, PhD</b>	License/Permit Number listing supervising individual  <b>NRC License #42-01368-01</b>
License/Permit lists supervising individual as: <input checked="" type="checkbox"/> Radiation Safety Officer <input type="checkbox"/> Authorized User <input type="checkbox"/> Authorized Nuclear Pharmacist <input type="checkbox"/> Authorized Medical Physicist Authorized as RSO, AU, ANP, or AMP for the following medical uses: <input checked="" type="checkbox"/> 35.100 <input checked="" type="checkbox"/> 35.200 <input checked="" type="checkbox"/> 35.300 <input checked="" type="checkbox"/> 35.400 <input checked="" type="checkbox"/> 35.500 <input checked="" type="checkbox"/> 35.600 (remote afterloader) <input type="checkbox"/> 35.600 (teletherapy) <input type="checkbox"/> 35.600 (gamma stereotactic radiosurgery) <input checked="" type="checkbox"/> 35.1000 ( <u>Y-90 Microspheres</u> )	

d. Skip to and complete Part II Preceptor Attestation.

**OR**

**4. Authorized User, Authorized Medical Physicist, or Authorized Nuclear Pharmacist identified on the licensee's license**

- a. Provide license number.
- b. Use the table in section 3.c. to describe training in radiation safety, regulatory issues, and emergency procedures for all types of medical use on the license.
- c. Skip to and complete Part II Preceptor Attestation.

**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 Radiation Safety Officer  
 10 CFR 35.50(a)(1)(i) and (a)(1)(ii); or 35.50 (a)(2)(i) and (a)(2)(ii); or 35.50(c)(1).

**OR**

**2. Structured Educational Program for Proposed Radiation Safety Officers**

I attest that **Christopher Pitcher** has satisfactorily completed a structural educational  
Name of Proposed Radiation Safety Officer  
 program consisting of both 200 hours of classroom and laboratory training and one year of full-time radiation safety experience as required by 10 CFR 35.50(b)(1).

**OR**

**RADIATION SAFETY OFFICER TRAINING AND EXPERIENCE AND PRECEPTOR ATTESTATION (continued)**

**Preceptor Attestation (continued)**

**First Section (continued)**

Check one of the following:

**3. Additional Authorization as Radiation Safety Officer**

I attest that \_\_\_\_\_ is an  
Name of Proposed Radiation Safety Officer

Authorized User

Authorized Nuclear Pharmacist

Authorized Medical Physicist

identified on the Licensee's license and has experience with the radiation safety aspects of similar type of use of byproduct material for which the individual has Radiation Safety Officer responsibilities

**AND**

**Second Section**

Complete for all (check all that apply):

I attest that Christopher Pitcher has training in the radiation safety, regulatory issues, and  
Name of Proposed Radiation Safety Officer

emergency procedures for the following types of use:

35.100

35.200

35.300 oral administration of less than or equal to 33 millicuries of sodium iodide I-131, for which a written directive is required

35.300 oral administration of greater than 33 millicuries of sodium iodide I-131

35.300 parenteral administration of any beta-emitter, or a photon-emitting radionuclide with a photon energy less than 150 keV for which a written directive is required

35.300 parenteral administration of any other radionuclide for which a written directive is required

35.400

35.500

35.600 remote afterloader units

35.600 teletherapy units

35.600 gamma stereotactic radiosurgery units

35.1000 emerging technologies, including:  
Y-90 microspheres

**RADIATION SAFETY OFFICER TRAINING AND EXPERIENCE AND PRECEPTOR ATTESTATION (continued)**


**AND**

**Third Section  
Complete for ALL**

I attest that Christopher Pitcher has achieved a level of radiation safety knowledge  
Name of Proposed Radiation Safety Officer  
sufficient to function independently as a Radiation Safety Officer for a medical use licensee.

**Fourth Section  
Complete the following for Preceptor Attestation and signature**

I am the Radiation Safety Officer for Brooke Army Medical Center  
Name of Facility  
License/Permit Number: 42-01368-01

Name of Preceptor	Signature	Telephone Number	Date
Mark W. Bower, CHP, PhD		(210) 295-2411	06/07/2012



Nucletron Corporation

8671 Robert Fulton Drive  
Columbia, MD 21046

Toll Free: 800-234-2249

FAX: 410-312-4196

### Nucletron Training Seminar

Institution: Brooke Army Medical Center

City, State/Province, Zip: Fort Sam Houston, TX, United States

#### 1 Teaching Aids Used

- User's Manual
- Applicators and Accessories
- Source Container and Dummy Sources
- Other

#### 2 Topics Covered

- Explanation of Remote Afterloading
- Explanation of Radiation Protection

#### 3 Applications

- Bronchus
- Interstitial
- Intracavitary
- Intraoperative

#### 4 Applicators/Accessories

- Bronchus
- GYN
- Esophagus
- Interstitial
- Other

#### 5 Equipment Operation

- Treatment Unit
- Handling
- Power Requirements
- Console
- Treatment
- Start
- Interrupt
- Emergency Stop
- Alarm and Error Codes

Radioactive Source: IR-192

#### 6 Receiving

- Unpacking
- Acceptance
- Calibration
- Installation

#### 7 Shipping

- Release
- Packing
- Documents
- Measurements

Emergency Procedures

All areas marked were covered during training

  
06/05/2012 03:36:09 pm Instructor

  
06/05/2012 03:36:09 pm Department Head

Instructor

Department Head

Service Engineer

Physicist

Title

Title

\* List of all attendees accompanies this form