#### Hammond, Michelle

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.: Docket No.: 42-01368-01 030-03258

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:

- 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).
- 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 <u>November 1, 2012</u> 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

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 RE: REQUEST FOR ADDITIONAL INFORMATION (UNCLASSIFIED)

Subject: 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

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

030-03258 Docket No.:

578020 Control No.:

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:

200000	Please provide Page 6 of LTC Pitcher's NRC Form 313A (Signature of Preceptor Attestation- for 35.600
1)	Please provide Page 6 of LTC Pitcher's NACT of the State of LTC Pitcher's NACT of LTC Pitcher's N
Rer	note 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

NRC FORM	313A	(RSO)
(40.200E)		

### U.S. NUCLEAR REGULATORY COMMISSION

# RADIATION SAFETY OFFICER TRAINING AND EXPERIENCE

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

AND PRECEPT	OR ATTESTATION FR 35.50]		Marie Control
Name of Proposed Radiation Safety Officer			
Christopher David Pitcher			
Requested Authorization(s) The license at	uthorizes the following medical uses (check al	I that apply):	
X 35.100 X 35.200 X 35.3	35.400 35.500	35.600 (remote	afterloader)
X 35.600 (teletherapy) 35.6	600 (gamma stereotactic radiosurgery)	35.1000 (	)
/6	ART I TRAINING AND EXPERIENCE Select one of the four methods below)		
*Training and Experience, including board	I certification, must have been obtained within tained related continuing education and experdates, duration, and description of continuing	the 7 years predience since the education and e	ceding the date of required training xperience related
1. Board Certification			
a. Provide a copy of the board certif	ication.	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	
<ul> <li>b. Use Table 3.c. to describe training all types of medical use on the lice</li> </ul>	g in radiation safety, regulatory issues, and er	nergency proced	dures for
c. Skip to and complete Part II Prec	eptor Attestation.		
**	OR		1 a f a h a
2. Current Radiation Safety Officer	Seeking Authorization to Be Recognized	as a Radiation 8	SATETY
Officer for the Additional Medica	USES CHECKEU ADOVE	issues, and em	
procedures for the additional ty	describe training in radiation safety, regulatory pes of medical use for which recognition as R	SO is sought.	•
b. Skip to and complete Part II Pro	eceptor Attestation.		
	OR COSTANT		
	n for Proposed Radiation Safety Officer		
a. Classroom and Laboratory Train		Clock	Dates of
Description of Training	Location of Training	Hours	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

**Total Hours of Training:** 

University of Florida, Gainesville, FL

Aug '89 - Dec '95

45

1035

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

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

 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 adiation 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 he 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
Jsing 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 '0
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 '00
Licensed Material Used (e.g., 35.100, 35.200, etc.)+ 35.100, 35.200, 35.300, 35.400, 35.500 (Teletherapy)	Martin Army Community Hospital, Fort Benning, GA Walter Reed Army Medical Center, Washington, D.C.	Jan '99 - Aug '01 Aug '04 - Aug '0

Choose all applicable sections of 10 CFR Part 35 to describe radioisotopes and quantities used: 35.100, 35.200, 35.300, 35.400, 35.600, 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		
Mark A. Melanson	NRC License # 08-01738-02		
This license authorizes the following medical uses:			
X  35.100   X  35.200   X  35.300	X 35.400		
35.500 35.600 (remote afterloader)	X 35.600 (teletherapy)		
35.600 (gamma stereotactic radiosurgery)	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. Mclanson, 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	

R	RADIATION SAFETY OFFICER TRAINING AND EXPERIENCE AND PRECEPTOR ATTESTATION (continued)					
SAN I- COLOR	THE PART OF STREET	The second secon		tion Safety Officer (		
		liation safety, reg		nergency procedures f		edical use on the
	PSO ALL AMP OF AL	NP (If more than one	s provided by supervising a supervising individual is g, provide multiple copies o	License/Permit Numbe	r listing supervising	g individual
	Mark A. Melanson	n		NRC License # 08-0	1738-02	
	License/Permit li	sts supervising in	idividual as:			
	X Radiation	Safety Officer	Authorized Us	er Authorized No	uclear Pharmacis	st
		d Medical Physici				
	Authorized as	RSO, AU, ANP,	or AMP for the follow	ng medical uses:		
	X 35.100	X 35.200	X 35.300	X 35.400		
	35.500	35.600 (re	mote afterloader)	X 35.600 (teleth	ierapy)	
	35.600 (ga	amma stereotacti	c radiosurgery)	<u> </u>		)
	d. Skip to and co	omplete Part II Pr	eceptor Attestation.			
	par 16000 - 367 6760 00 1 <b>4</b> ° 7 1 7 60 00 ± 600 00 ± 600 00 00 00 00 00 00 00 00 00 00 00 00	0000000	O	R		
	. Authorized L	Jser, Authorized	Medical Physicist,	or Authorized Nuclea	r Pharmacist ide	entified on
LJ	the licensee'	s license				
	a. Provide lic	ense number.				
	b. Use the ta	ble in section 3.c	to describe training in	n radiation safety, regu ense.	ulatory issues, an	d emergency
			Preceptor Attestation			
			PART II - PRECEP	TOR ATTESTATION		
Note	المم اميرامان المما	and ac the proce	ntor provides directs	eptor. The preceptor or or verifies training and obtain a separate pre	a expenence requ	ulled. Il more man
	t Section ck one of the fol	lowing:				
	1. Board Certific	cation				
	attest that			has satisfactorily com	pleted the require	ements in
		Name of Propose	Radiation Safety Officer			
	10 CFR 35.50	0(a)(1)(i) and (a)(	1)(ii); or 35.50 (a)(2)(i	) and (a)(2)(ii); or 35.5	0(c)(1).	
			0	R		
$\mathbf{x}$	2. Structured Ed	lucational Progr	am for Proposed Ra	diation Safety Officer	<u>rs</u>	
	X I attest that	Christopher D.		has satisfactorily com	pleted a structure	al educational
	program cons	sisting of both 20	0 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					
	- W.W			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		PACE A

NRC FORM 313A (RS (10-2008) RADIATION SAI	•	ND EXPERIENCE AND PRECEPTOR ATTESTATION (continued)
Preceptor Attestat		
First Section (cont Check one of the fo	inued)	
3. Additiona	Authorization as Radiation	Safety Officer
I attest that		is an
eemint)	Name of Proposed Radiation Sat	fety Officer
Auth	orized User	Authorized Nuclear Pharmacist
Auth	orized Medical Physicist	
aspects	d on the Licensees license ar of similar type of use of bypron on Safety Officer responsibiliti	nd has experience with the radiation safety oduct material for which the individual has les
		AND
Second Section Complete for all (6	check all that apply):	
X I attest that	Christopher D. Pitcher	has training in the radiation safety, regulatory issues, and
emergency nro	Name of Proposed Radiation Safety Cocedures for the following type	
x 35.100	V.	
X 35.200		La 00 milliousing of godium indida I 124 for
X 35.300	which a written directive is a	M
X 35.300	oral administration of greate	er than 33 millicuries of sodium iodide I-131
X 35.300	parenteral administration of a photon energy less than	any beta-emitter, or a photon-emitting radionuclide with 150 keV for which a written directive is required
X 35.300	parenteral administration of required	any other radionuclide for which a written directive is
X 35.400		
35.500		
35.600	remote afterloader units	
X 35.600	teletherapy units	
35.600	gamma stereotactic radiosu	urgery units
35.1000	emerging technologies, inc	luding:

RC FORM 313A (RSC -2008) RADIATION SA		EXPERIENCE AND PRECEPTOR ATTESTATION (continued)
		AND
hird Section omplete for ALL		
X I attest that	Christopher D. Pitcher	has achieved a level of radiation safety knowledge
	Name of Proposed Radiation Safety Officer	
cufficient to fi	inction independently as a Radiatio	on Safety Officer for a medical use licensee.

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

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

License/Permit Number: 08-01738-02

NRC FORM 313A (RSO) (3-2009)  RADIATION SAFETY OFFICER AND PRECEPTOR	U.S. NUCLEAR REGULATORY COMMIS TRAINING AND EXPERIENCE		APPROVED BY	Y OMB: NO. 3150-0120 1/2012
[10 CFR				1
Name of Proposed Radiation Safety Officer				
Christopher Pitcher				
Requested Authorization(s) The license authorization				
35.100 35.200 35.300	35.400 35.500	<b>√</b> 35.0	600 (remote	afterloader)
35.600 (teletherapy) 35.600	(gamma stereotactic radiosurgery)	<b>√</b> 35.	1000 ( <u>Y</u>	90 microsphere )
(Sele	I TRAINING AND EXPERIENCE ct one of the four methods below)			
*Training and Experience, including board cel application or the individual must have obtain and experience was completed. Provide date to the uses checked above.	ed related continuing education and ex	periend	ce since the	required training
1. Board Certification				
<ol> <li>Provide a copy of the board certificati</li> </ol>				
<ul> <li>b. Use Table 3.c. to describe training in all types of medical use on the license</li> </ul>	radiation safety, regulatory issues, and e.	d emerg	ency proce	dures for
c. Skip to and complete Part II Precepto	r Attestation.			
	OR		D - 41 - 41 1	0-5-4
2. Current Radiation Safety Officer See Officer for the Additional Medical Ut	ses Checked Above			
<ul> <li>Use the table in section 3.c. to desc procedures for the additional types</li> </ul>	ribe training in radiation safety, regulat of medical use for which recognition as	pry issi RSO i	ues, and em is sought.	ergency
<ul> <li>b. Skip to and complete Part II Precep</li> </ul>	tor Attestation.			
	OR			
3. Structured Educational Program for				
a. Classroom and Laboratory Training			Clock	Dates of
Description of Training	Location of Training		Hours	Training*
Radiation physics and instrumentation				
Radiation protection				
Mathematics pertaining to the use and measurement of radioactivity				
Radiation biology				
Radiation dosimetry				
	Total Hours of Training:		***************************************	

Y-90 microsphere brachytherapy

Brooke Army Medical Center

stereotactic radiosurgery uses

use(s):

Radiation safety, regulatory issues, and

emergency procedures for 35.1000, specify

May - Jun 2012

NRC FORM 313A (R: (3-2009)	(1) 140 · Til	U.Ş. NUCLEAR REGULATORY COMMISSION
RADIATION SA	AFETY OFFICER TRAININ	IG AND EXPERIENCE AND PRECEPTOR ATTESTATION (continued)
Preceptor Attesta	tion (continued)	
First Section (cor Check one of the	ntinued) following:	
3. Addition	al Authorization as Radia	tion Safety Officer
l attest tha		is an
	Name of Proposed Radiation	
Au	thorized User	Authorized Nuclear Pharmacist
Au	thorized Medical Physicist	
aspec	ied on the Licensees licens ts of similar type of use of t tion Safety Officer responsi	e and has experience with the radiation safety byproduct material for which the individual has bilities
		AND
Second Section Complete for all	(check all that apply):	
manifestary san and	Service of the Control of the Contro	
✓ I attest that	Christopher Pitcher	has training in the radiation safety, regulatory issues, and
emergency D	Name of ProposedRadiation Sa rocedures for the following	
35.100		
35.200		a a
35.300	oral administration of le which a written directive	ss than or equal to 33 millicuries of sodium iodide I-131, for e is required
35.300	oral administration of g	reater than 33 millicuries of sodium iodide I-131
35.300	parenteral administration a photon energy less the	on of any beta-emitter, or a photon-emitting radionuclide with land 150 keV for which a written directive is required
35.300	parenteral administration	on of any other radionuclide for which a written directive is
35.400		
35.500		
<b>√</b> 35.600	remote afterloader units	s
35.600	teletherapy units	
35.600	gamma stereotactic rad	diosurgery units
<b>3</b> 5.1000	emerging technologies Y-90 microspheres	, including:
	8 12	



#### **Nucletron Corporation**

8671 Robert Fulton Drive Columbia MD 21046

				Toll Free: 800-234-2249.
	Nucletron Tra	lining Seminar		100124130 100124130
Institution: Brooke Army	Medical Center			
City, State/Province, Zip: Fort Sam Ho	uston, TX, United S	tates		Tarih i jidan 📜 🗓
1 Teaching Aids Used User's Manual Applicators and Accessories Source Container and Dummy Sources Other	E			
2 Topics Covered  Explanation of Remote Afterloading  Explanation of Radiation Protection	A			
3 Applications  Bronchus	4 Applicators/Ac Bronchus GYN Esophagus Interstital Other	cessories _ _ _ _ _ _ _ _ _ _ _	5 Equipment Ope Treatment Unit Handling Power Requirements Console Treatment Start Interrupt	<u> </u>
Radioactive Source:  6 Receiving Unpacking Acceptance Galibration Installation	7 Shipping Release Packing Documents Measurements		Emergency Stop Alarm and Error Cod  Emergency Procedu	
areas marked were covered during training	Instructor	oe/ok/2012 Department He	03:36:00 pm	Depart ment Head
ructor vice Engineer e st of all attendees accompanies this form		Physicist Title	M. SERIEL	

Inst

## NRC FORM 313A (RSO) (3-2009)

#### U.S. NUCLEAR REGULATORY COMMISSION

# RADIATION SAFFTY OFFICER TRAINING AND EXPERIENCE

APPROVED BY OMB: NO. 3150-0120

AND PRE	CEPTOR A	ATTESTATIO	ON .		EXPIRES: 3/31	72012
Name of Proposed Radiation Safety O						
Christopher Pitcher						
Requested Authorization(s) The lic	ense authoriz	es the following	g medical uses (ch	eck all th	at apply):	
35.100 35.200	35.300	35.400	35.500		.600 (remote	afterloader)
35.600 (teletherapy)	35.600 (g	amma stereota	ctic radiosurgery)	<b>√</b> 35	.1000 ( <u>Y</u> 9	0 microsphere )
	PART I	TRAINING A	ND EXPERIENCE r methods below)	1		
*Training and Experience, includin application or the individual must hand experience was completed. P to the uses checked above.	g board certif	ication, must ha	ave been obtained	within the		
1. Board Certification						
a. Provide a copy of the boar	d certification	١.				
<ul> <li>b. Use Table 3.c. to describe all types of medical use or</li> </ul>	training in ra the license.	diation safety, i	egulatory issues, a	and emer	gency proced	dures for
c. Skip to and complete Part	II Preceptor	Attestation.				
		OR				
2. Current Radiation Safety Officer for the Additional	Officer Seek Medical Use	ing Authorizat s Checked Ab	ion to Be Recogn ove	ized as	a Radiation S	<u>Safety</u>
Use the table in section procedures for the addition	onal types of	medical use to	diation safety, regu r which recognition	ulatory is: as RSC	sues, and em is sought.	ergency
<ul> <li>b. Skip to and complete Pa</li> </ul>	п п Ргесеріо					
3. Structured Educational P	roarom for D	OR Proposed Radia	ation Safety Office	er		
a. Classroom and Laborate		Toposeu Raun	ation outery office	<u>v.</u>		
Description of Training		Location	of Training		Clock Hours	Dates of Training*
Radiation physics and instrumentation						
Radiation protection						
Mathematics pertaining to t use and measurement of radioactivity	he					
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)

 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 adiation surveys		
Using and performing checks for proper peration 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		
Jsing procedures to prevent or minimize adioactive contamination and using proper decontamination procedures		
Jsing 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).

NRC FORM 313A (RSO)	U.S. NUCLEAR REGULATORY COMMISSION			
3-2009)	RIENCE AND PRECEPTOR ATTESTATION (continued)			
3. Structured Educational Program for Proposed Radia	ation Safety Officer (continued)			
Training in radiation safety, regulatory issues, and en license (continued)	nergency procedures for all types of medical use on the			
Supervising Individual 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.)	License/Permit Number listing supervising individual			
COL Mark W. Bower, CHP, PhD	NRC License #42-01368-01			
License/Permit lists supervising individual as:				
Radiation Safety Officer Authorized Us	ser Authorized Nuclear Pharmacist			
Authorized Medical Physicist				
Authorized as RSO, AU, ANP, or AMP for the following	The state of the s			
	<b>₹</b> 35.400			
√ 35.500  √ 35.600 (remote afterloader)	35.600 (teletherapy)			
35.600 (gamma stereotactic radiosurgery)	<b>√</b> 35.1000 (Y-90 Microspheres )			
d. Skip to and complete Part II Preceptor Attestation.				
	R			
4. Authorized User, Authorized Medical Physicist,	or Authorized Nuclear Pharmacist identified on			
the licensee's license				
a. Provide license number.				
	in radiation safety, regulatory issues, and emergency ense.			
c. Skip to and complete Part II Preceptor Attestation				
	PTOR ATTESTATION			
	ceptor. The preceptor does not have to be the supervising			
First Section Check one of the following:				
1. Board Certification	has satisfactorily completed the requirements in			
I attest that  Name of Proposed Radiation Safety Officer	nas sausiautoniy completed the requirements in -			
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 Ra				
✓ I attest that Christopher Pitcher	has satisfactorily completed a structural educational			
Name of Proposed Radiation Safety Officer	and laborator, training and one your of full time			
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).				
0	DR			

NRC FORM 313A (R	SO) U.S. NUCLEAR REGULATORY COMMISSION				
(3-2009) RADIATION SA	AFETY OFFICER TRAINING AND EXPERIENCE AND PRECEPTOR ATTESTATION (continued)				
Preceptor Attesta	ation (continued)				
First Section (cor Check one of the	ntinued) following:				
3. Addition	al Authorization as Radiation Safety Officer				
I attest the	Name of Proposed Radiation Safety Officer				
Au	thorized User Authorized Nuclear Pharmacist				
Au	athorized Medical Physicist				
aspec	fied on the Licensees license and has experience with the radiation safety ets of similar type of use of byproduct material for which the individual has tion Safety Officer responsibilities				
	AND				
Second Section	AND				
Complete for all	(check all that apply):				
✓ I attest that	Christopher Pitcher has training in the radiation safety, regulatory issues, and				
emergency r	Name of ProposedRadiation Safety Officer 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					
<b>√</b> 35.600	remote afterloader units				
35.600	teletherapy units				
35.600	gamma stereotactic radiosurgery units				
<b>√</b> 35.1000	emerging technologies, including: Y-90 microspheres				

NRC FORM 313A (RSO)		U.S. NUCLEAR REGULA	and the second second			
3-2009) RADIATION SAFETY OFFICER TR	AINING AND EXPERIENCE AND PRECE	PTOR ATTESTATION	(continued)			
	AND					
Third Section Complete for ALL						
✓ I attest that Christopher Pitcher  Name of Proposed Radi		has achieved a level of radiation safety knowledge				
sufficient to function independently	as a Radiation Safety Officer for a medical	al 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	ment UBova	(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 Ho	uston, TX, United Sta	ates		
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	ri Fi			
3 Applications Bronchus Interstitial Intracavitary Intraoperative	4 Applicators/Acc Bronchus GYN Esophagus Interstitial	essories	5 Equipment Operation Treatment Unit Handling Power Requirements Console	on V V
Radioactive Source:	Other  IR-192	1	Treatment Start Interrupt Emergency Stop Alarm and Error Codes	
6 Receiving Unpacking Acceptance Calibration Installation	7 Shipping Release Packing Documents Measurements		Emergency Procedures	<b>▽</b>
All areas marked were covered during training	Instructor	06/0	5/2012 03 36:09 pm	Department Head
Instructor		Departme	nt Head	
Service Engineer Title		Physicis Title	ST.	
* List of all attendees accompanies this form				