

UNIFORMED SERVICES UNIVERSITY OF THE HEALTH SCIENCES

4301 JONES BRIDGE ROAD BETHESDA, MARYLAND 20814-4712 www.usuhs.mil



4 March 2008

Licensing Assistance Team
Division of Nuclear Materials Safety
U.S. Nuclear Regulatory Commission, Region I
475 Allendale Road
King of Prussia, PA 19406-1415

Re: USNRC Licenses 19-23344-01 and 19-23344-02, Change in Radiation Safety Officer

Dear Sir or Madam,

03020175 03032810

The purpose of this letter is to notify the Nuclear Regulatory Commission (NRC) of a change in the Radiation Safety Officer (RSO) at the Uniformed Services University of the Health Sciences (USUHS).

As of 24 March 2008, LTC John P. Cuellar, MS, USA will assume the position of Radiation Safety Officer for the Type A Broad scope (19-23344-01) and Self-shielded Irradiator (19-23344-02) NRC licenses at the USUHS. LTC Cuellar has previously served as the RSO on an NRC Byproduct Materials License. LTC Cuellar has also served as an RSO in the Army under the NRC issued Army Master Materials License. A copy of his NRC Form 313a and CV are provided for your review.

Charles L. Rice, M.D.

President

REGION 1



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04 March 2008

MEMORANDUM FOR ALL USUHS PERSONNEL

SUBJECT: Authority of the Radiation Safety Officer

LTC John P. Cuellar, MS, USA, Deputy Director Environmental Health and Safety has been appointed as Radiation Safety Officer. He is responsible for ensuring the safe use of radioactive materials at this institution. The Radiation Safety Officer is responsible for managing the Radiation Safety Program; identifying radiation safety problems; initiating, recommending, or providing corrective actions; verifying implementation of corrective actions; and ensuring compliance with regulations. The Radiation Safety Officer is hereby delegated the authority to meet these responsibilities.

When an unsafe use or condition involving radioactive materials is brought to the attention of the Radiation Safety Officer, he shall have the authority to immediately stop usage of the radioactive materials. Final disposition of the problem will be the responsibility of the Radiation Safety Committee.

The Radiation Safety Officer is also responsible for assisting the Radiation Safety Committee in the performance of its duties and serving as its Executive Secretary.

Charles L. Rice, M.D.

President

NRC FORM 313A (RSO) (2-2007)	U.S. NUCLEAR REGULATORY COMMISSI	ON	
RADIATION SAFETY O	BY OMB: NO. 3150-012 0/31/2008		
Name of Proposed Radiation Safety Of	fficer		
John P. Cuellar		The second of th	
Requested Authorization(s) The lice	ense authorizes the following medical uses (check		
35.100 35.200	35.300 35.400 35.500	35.600 (remo	ote afterloader)
35.600 (teletherapy)	35.600 (gamma stereotactic radiosurgery)	35.1000 ()
	PART I TRAINING AND EXPERIENCE (Select one of the four methods below)	3,,,,,,	
application or the individual must ha	poard certification, must have been obtained within ave obtained related continuing education and experovide dates, duration, and description of continuing	erience since th	ne required training
1. Board Certification			
 a. Provide a copy of the board 	d certification.		
 b. Use Table 3.c. to describe all types of medical use on 	training in radiation safety, regulatory issues, and ϵ the license.	mergency prod	cedures for
c. Skip to and complete Part I	II Preceptor Attestation.		
Officer for the Additional M	OR Officer Seeking Authorization to Be Recognized Medical Uses Checked Above I.c. to describe training in radiation safety, regulator		
procedures for the addition	nal types of medical use for which recognition as F	RSO is sought.	emergency
 b. Skip to and complete Par 	t II Preceptor Attestation.		
	OR		
	ogram for Proposed Radiation Safety Officer		
a. Classroom and Laborator Description of Training	Location of Training	Clock Hours	Dates of Training*
Radiation physics and instrumentation	University of Texas, San Antonio US Military Academy - Assistant Professor/RSO DTRA/DOD/Army	30	1996-1998 1998 - 2001 2001-present
Radiation protection	University of Texas, San Antonio US Mili	30	1996-1998 1998 - 2001 2001-present
Mathematics pertaining to th use and measurement of radioactivity	e University of Texas, San Antonio US Military Academy - Assistant Professor/RSO DTRA/DOD/Army	30	1996-1998 1998 - 2001 2001-present
Radiation biology	University of Texas, San Antonio US Military Academy - Assistant Professor/RSO DTRA/DOD/Army	30	1996-1998 1998 - 2001 2001-present
Radiation dosimetry	University of Texas, San Antonio US Military Academy - Assistant Professor/RSO DTRA/DOD/Army	30	1996-1998 1998 - 2001 2001-present
	Total Hours of Training:	gaggangganggangganggangganggangganggang	The second secon

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.)

Location of Training/	Dates of Training*
US Military Academy - Assistant Professor/RSO DTRA/DOD/Army	1998 - 2001 2001-present
US Military Academy - Assistant Professor/RSO	1998 - 2001
DTRA/DOD/Army	2001-present
US Military Academy - Assistant Professor/RSO	1998 - 2001
DTRA/DOD/Army	2001-present
US Military Academy - Assistant Professor/RSO	1998 - 2001
DTRA/DOD/Army	2001-present
US Military Academy - Assistant Professor/RSO	1998 - 2001
DTRA/DOD/Army	2001-present
US Military Academy - Assistant Professor/RSO	1998 - 2001
DTRA/DOD/Army	2001-present
US Military Academy - Assistant Professor/RSO	1998 - 2001
DTRA/DOD/Army	2001-present
	License or Permit Number of Facility US Military Academy - Assistant Professor/RSO DTRA/DOD/Army US Military Academy - Assistant Professor/RSO DTRA/DOD/Army

Choose all applicable sections of 10 CFR Part 35 to describe radioisotopes and quantities used: 35.100, 35.200, 35.300, 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).

RC FORM 313A (RSO) 2907)	U.S. NUCLEAR RE	EGULATORY COMMISSION
RADIATION SAFETY OFFICER TRAINING AND	EXPERIENCE AND PRECEPTOR ATTEST	ATION (continued)
3. Structured Educational Program for Proposed	d Radiation Safety Officer (continued)	
b. Supervised Radiation Safety Experience (cor	ntinued)	
(If more than one supervising individual is ned copies of this section.)	cessary to document supervised work experie	ence, provide multiple
Supervising Individual	License/Permit Number listing supervisi Radiation Safety Officer	ng individual as a
This license authorizes the following medical use		
35.100 35.200 35.300	35.400	
35.500 35.600 (remote afterloader)	35.600 (teletherapy)	
35.600 (gamma stereotactic radiosurgery)	35.1000 (
c. Describe training in radiation safety, regulator use on the license.	y issues, and emergency procedures for all t	ypes of medical
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		7
Radiation safety, regulatory issues, and emergency procedures for 35.600 - remote afterloader uses		
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):		

NRC FORM 313A (RSO) (2-2007)	U.S. NUCLEAR REGULATORY COMMISSION
RADIATION SAFETY OFFICER TRAINING AND EXPER 3. Structured Educational Program for Proposed Radia	
c. Training in radiation safety, regulatory issues, and em	
license (continued)	<u> </u>
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
License/Permit lists supervising individual as:	
	Authorized Nuclear Pharmacist
Authorized Medical Physicist	
Authorized as RSO, AU, ANP, or AMP for the following	ng medical uses:
35.100 35.200 35.300	35.400
35.500 35.600 (remote afterloader)	35.600 (teletherapy)
35.600 (gamma stereotactic radiosurgery)	35.1000 (
d. Skip to and complete Part II Preceptor Attestation.	
OF	₹
4. Authorized User, Authorized Medical Physicist, o the licensee's license	r Authorized Nuclear Pharmacist identified on
a. Provide license number.	
 b. Use the table in section 3.c. to describe training in procedures for all types of medical use on the lice 	
c. Skip to and complete Part II Preceptor Attestation	
PART II – PRECEPT	OR ATTESTATION
Note: This part must be completed by the individual's precede individual as long as the preceptor provides, directs, one preceptor is necessary to document experience,	eptor. The preceptor does not have to be the supervising or verifies training and experience required. If more than obtain a separate preceptor statement from each.
First Section Check one of the following:	
1. Board Certification	
	nas 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)	
OF	
2. Structured Educational Program for Proposed Rad	
I attest that Name of Proposed Radiation Safety Officer	nas satisfactorily completed a structural educational
program consisting of both 200 hours of classroom a radiation safety experience as required by 10 CFR 3:	
OF	8

NRC FORM 313A (RSC (2-2007)	
RADIATION SAF	ETY OFFICER TRAINING AND EXPERIENCE AND PRECEPTOR ATTESTATION (continued)
Preceptor Attestati	on (continued)
First Section (conti Check one of the fo	
3. Additional	Authorization as Radiation Safety Officer
I attest that	is an
	Name of Proposed Radiation Safety Officer
Auth	orized User Authorized Nuclear Pharmacist
Auth	orized Medical Physicist
aspects	d on the Licensees license and has experience with the radiation safety of similar type of use of byproduct material for which the individual has a Safety Officer responsibilities
n and state tops used used and and and them the	AND
Second Section Complete for all <i>(c</i>	heck all that apply):
I attest that	has training in the radiation safety, regulatory issues, and
emergency pro	Name of ProposedRadiation Safety Officer according to the following types of use:
35.100	
35.200	
35.300	oral administration of less than or equal to 33 millicuries of sodium iodide l-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:

NRC FORM 313A (RSO) (2-2007)		U.S. NUCLEAR REGULATO	DRY COMMISSION
	AINING AND EXPERIENCE AND PREC	EPTOR ATTESTATION	(continued)
	AND		
Third Section Complete for ALL			
I attest that Name of Proposed Radia		radiation safety knowled	ge
sufficient to function independently	as a Radiation Safety Officer for a medic	al use licensee.	·
Fourth Section Complete the following for Preceptor			
I am the Radiation Safety Officer for	Name of Faci	ility	· · · · · · · · · · · · · · · · · · ·
License/Permit Number:			
			
Name of Preceptor	Signature	Telephone Number	Date
		:	

and with the action of the consequences of the

:

TRAINING AND RADIOISOTOPE EXPERIENCE

John P. Cuellar

Training.

Training and experience at USMA under the supervision of MAJ Mike Johns included calibration procedures and radiation safety procedures and requirements.

Training and experience at USAEHA under the supervision of COL William Johnson Ph.D., LTC Mike Mueller Ph. D. and CPT Gary Matcek included radioactivity measurement standardization, calibration procedures and radiation safety procedures and requirements.

Category A: Principles and Practice of Radiation Protection

Category B: Radioactivity Measurement Standardization and Monitoring

Category C: Mathematics and Calculations Basic to the Use and Measurement

of Radioactivity

Category D: Biological Effects of Radiation Category E: Radioactive Waste Disposal

CATEGORY	LOCATION OF TRAINING	DATE/DURATION	TYPE OF TRAINING
C,D	Pitzer College, CA	1985-1989	Classes
A,B,C,D,E	University of Texas, San Antonio	1996-1998	Classes/Laboratory
			Experience
A,B,C,D,E	Various (see curriculum vitae)	1989-1997	Classes
A,B,C,D,E	USAEHA, APG, MD	1989-1994	On the job
A,B,C,D,E	Department of Physics,	1998-2001	On the job
	United States Military Academy,		
	West Point, NY		
A,B,C,D	Kirtland AFB, NM	2001-present	On the job
	Fort Belvoir, VA		

Experience with Isotopes

ISOTOPE	MAXIMUM ACTIVITY/ QUANTITY	DURATION OF EXPERIENCE	TYPE OF EXPERIENCE
Uranium	2500 kg	1998-2001	Light Water Moderated Subcritical Assembly
Pu-239	80 g	1998-2001	Sealed neutron source
Cs-137	50 mCi	1998-2001	Compton Source & Check Sources
Co-57	15 mCi	1998-2001	Mossbauer Source & Check Sources
Atomic Nos 1-83	10 mCi	1995-present	Sealed sources
Tc-99m	5 mCi	1995-1996	Diagnostic doses
Co-57	5 Ci	1994-1995	Calibration
Am-241	5 Ci	1994-1995	Calibration
Cs-137	5 Ci	1994-1995	Calibration

July 1998 – July 2001

RSO, USMA Dept Physics NRC Licenses

31-02102-02 and SUD-311

April 1996 - July 1996

Brook Army Medical Center

Broad scope license (NRC LIC # 19-09880-01)

December 1995 - August 1996

NBC Sciences, AMEDD C & S

NRC license # 42-01368-04

July 1993 - June 1995

Radiation Safety Officer

DA Radionuclides Authorization No. 91-01-90

December 1989 - July 1993 October 1992 - July 1993 Army Radiation Protection Consultant/ Alternate RSO NRC LIC # 19-09880-01

CURRICULUM VITAE

John P. Cuellar

Lieutenant Colonel, Medical Service Corps, United States Army (2007)

Office Address

USANCA

Attn: LTC John Cuellar

7150 Heller Loop

Springfield VA 22150-3198

Home of Record

Current Address

Current Telephone Number

Date and Place of Birth

Education

Instructional Psychology

Masters

University of Oklahoma, OK

1995

Physics Bachelors

Pitzer College, CA

1989

Other Education and Training

1996-1998

Graduate Courses

Medical Health Physics Program- 30+ Hrs University of Texas Health Science Center

San Antonio, TX

1994

HAZMAT Emergency Response Team Course

University of Kansas Fort Clayton, Panama

1992

Occupational & Environmental Radiation

Protection Course Harvard University

Boston, MA

1

General Publications

:

"Microwaves and Electromagnetic Fields," with D. H. Sliney, Chapter 13 of Environmental Toxicants: Human Exposures and Their Health Effects, by Morton Lippmann (Editor), New York: John Wiley & Sons, 1991.

Department of the Army Publications

"LucAl Phantom Evaluation," *Preventive Medicine Newsletter*, US Army Medical Department, San Antonio, 1992.

"Nonionizing Radiation Protection Survey Report," US Army Environmental Hygiene Agency, Aberdeen Proving Ground, 1990 - 1993.

Texas Army National Guard, with Roger O'Neal.

Kentucky Army National Guard, with Roger O'Neal.

Iowa Army National Guard.

Nebraska Army National Guard.

Southern Command, Panama.

California Army National Guard, with Roger O'Neal.

Fort Hood, Texas.

Military Activities, Somalia.

"Nonionizing Radiation Health Risk Assessment for the THAAD Radar," US Army Environmental Hygiene Agency, Aberdeen Proving Ground 1991.

"Ionizing Radiation Protection Survey Report" US Army Environmental Hygiene Agency, Aberdeen Proving Ground, 1992 – 1993.

US Army Medical Activities, Alaska.

US Army Medical Activities, Fort Cambell.

US Army Medical Activities, Redstone Arsenal.

US Army Medical Activities, Panama.

Tripler Army Medical Center, with COL W. Johnson.

Department of Defense Publications

"Biota Sampling Report for Plutonium at Johnston Atoll" with Phillip Lobel and David Rynders, Defense Threat Reduction Agency, 2001.

"Sediment Sampling of the Johnston Atoll Lagoon" with Douglas Winquist, Defense Threat Reduction Agency, 2001.

Department of Defense Publications (cont.)

"Corrective Measures Study/Feasibility Study for the Disposition of Metal/Concrete Debris and Radioactive Coral Located in the Radiological Control Area on Johnston Island, Johnston Atoll" with John Esterl, Jeffrey Fraher, David Rynders, Harry Stumpf, and Douglas Winquist, Defense Threat Reduction Agency, 2002.

Academic Experience

January 2002 – September 2004 Instructor/Advisor

Defense Nuclear Weapons School
Defense Threat Reduction Agency

Kirtland AFB, NM and Fort Belvoir, VA

July 1998 – June 2001 Assistant Professor

Department of Physics

United States Military Academy

West Point, NY

December 1995 - August 1996 Instructor

NBC Sciences, Army Medical Department Center

and School

Fort Sam Houston, TX

Courses Taught:

Professional 2002-2004 Affects of Nuclear Weapons

Medical Aspects of Nuclear War

Radiation Effects

Response to Radiological Incidents Consequence Management Topics

Undergraduate 1998-2000: Introductory Physics I and II

Medical Radiation Physics Experimental Physics

Modern Physics

Professional 1995-1996: Army Medical Department OBC

Army Medical Department OAC X-ray Survey Techniques Course X-ray Technologist Basic Course Preventive Medicine Course

Medical Management of BC Casualties Course

USMA Committee Assignments Faculty Development Committee (1999-2001)

Military Education and Training 2006	Joint Nuclear Operation Course Defense Nuclear Weapons School Kirtland AFB, NM
2005	WMD Planners Course Defense Nuclear Weapons School Washington, DC
2004	WMD response course Defense Threat Reduction Agency
1998	Combined Arms and Services Staff School US Army Command and General Staff College Fort Leavenworth, KS
1996	Medical Management of Chem/Bio Casualties Fort Detrick & Aberdeen Proving Ground, MD
1996	Faculty Development Course USAMEDD Center and School Fort Sam Houston, TX
1995	US Army Medical Department Officer Advance Course USAMEDD Center and School Fort Sam Houston, TX
1991	Nuclear Emergency Team Operations Course Interservice Nuclear Weapons School Kirtland AFB, NM
	Nuclear Hazards Training Course Interservice Nuclear Weapons School Kirtland AFB, NM
	REAC/TS Radiation Accidents WRAMC, MD
	Medical Effects of Nuclear Weapons Armed Forces Radiobiology Research Institute Xerox Training Center, VA

1989

AMEDD Officers Basic Course

AMEDD C & S

Fort Sam Houston, TX

Professional Experience

July 2005 – Present

Nuclear Operations Staff Officer

USANCA

Fort Belvoir, VA

July 2001- July 2005

CMAT Leader

Division Health Physicist/Pu Project Officer

Defense Threat Reduction Agency

April 1996 - July 1996

Assistant Radiation Safety Officer

Brooke Army Medical Center

Fort Sam Houston, TX

July 1993 - June 1995

Hospital and Radiation Safety Officer

Gorgas Army Community Hospital, Panama

December 1989 - July 1993

October 1992 - July 1993

Army Radiation Protection Consultant/

Alternate Radiation Safety Officer

USAEHA APG, MD

Selected Military Awards

MSM (3), JSCOM, ARCOM, AAM

Professional Affiliations

Society of Physics Students

This is to acknowledge the receipt	of your letter/application dated		
includes an administrative review h	and to inform you that the initial processing which as been performed.		
	nissions. Your application was assigned to a that the technical review may identify additional information.		
Please provide to this office within 30 days of your receipt of this card			
	warded to our License Fee & Accounts Receivable ately if there is a fee issue involved.		
Your action has been assigned Ma When calling to inquire about this a You may call us on (610) 337-5398	il Control Number 142138/142189 action, please refer to this control number. 3, or 337-5260.		
NRC FORM 532 (RI) (6-96)	Sincerely, Licensing Assistance Team Leader		