DEPARTMENT OF THE ARMY
WOMACK ARMY MEDICAL CENTER
FORT BRAGG, NORTH CAROLINA 28310

February 24, 2014

REPLY TO
ATTENTION OF:

Licensing Assistance Team
Division of Nuclear Materials Safety
U.S. Nuclear Regulatory Commission, Region 1
2100 Renaissance Boulevard, Suite 100.
King of Prussia, PA 19406-1415

Dear Sir or Madam:

Womack Army Medical Center wishes to amend its byproduct material license number 32-04054-04 by changing the current Radiation Safety Officer (RSO) from Captain Gary L. Hall to First Lieutenant Kacey D. McGee.

The Radiation Safety Committee has reviewed and approved First Lieutenant McGee's credentials as meeting the requisite experience and training for a RSO on a limited scope license.

Captain Hall is retiring from the Army and his last work day is 16 March 2014; therefore, I would appreciate this request be expedited and effective as soon as practical, but no later than 10 May 2014. During the interim period, I, in a separate letter to the Nuclear Regulatory Commission, have assigned Dr. Vimal K. Sodhi as Womack's Radiation Safety Officer.

Enclosed with this request are First Lieutenant McGee's credentials to include his curriculum vitae, and his NRC Form 313A, preceptorship. Additionally, enclosed is Womack's NRC Form 313 request to amend the license.

Your acknowledgement of this request would be appreciated. Should you have any questions concerning this request, please contact Captain Gary L. Hall at (910) 907-8364 or email at gary.l.hall6.mil@mail.mil.

Sincerely,

Steven J. Brewster
Colonel, US Army
Commanding

Enclosures

NRC FORM 313 **U.S. NUCLEAR REGULATORY COMMISSION**
(05-2012)
10 CFR 30, 32, 33,
34, 35, 36, 39, and 40

APPLICATION FOR MATERIALS LICENSE

APPROVED BY OMB: NO. 3150-0120 **EXPIRES: (05/31/2015)**

Estimated burden per response to comply with this mandatory collection request: 4.3 hours. Submittal of the application is necessary to determine that the applicant is qualified and that adequate procedures exist to protect the public health and safety. Send comments regarding burden estimate to the Information Services Branch (T-5 F53), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by internet e-mail to Infocollects.Resource@nrc.gov, and to the Desk Officer, Office of Information and Regulatory Affairs, NEOB-10202, (3150-0120), Office of Management and Budget, Washington, DC 20503. If a means used to impose an information collection does not display a currently valid OMB control number, the NRC may not conduct or sponsor, and a person is not required to respond to, the information collection.

INSTRUCTIONS: SEE THE APPROPRIATE LICENSE APPLICATION GUIDE FOR DETAILED INSTRUCTIONS FOR COMPLETING APPLICATION. SEND TWO COPIES OF THE ENTIRE COMPLETED APPLICATION TO THE NRC OFFICE SPECIFIED BELOW.

APPLICATION FOR DISTRIBUTION OF EXEMPT PRODUCTS FILE APPLICATIONS WITH:

OFFICE OF FEDERAL & STATE MATERIALS AND
ENVIRONMENTAL MANAGEMENT PROGRAMS
DIVISION OF MATERIALS SAFETY AND STATE AGREEMENTS
U.S. NUCLEAR REGULATORY COMMISSION
WASHINGTON, DC 20555-0001

ALL OTHER PERSONS FILE APPLICATIONS AS FOLLOWS:

IF YOU ARE LOCATED IN:

ALABAMA, CONNECTICUT, DELAWARE, DISTRICT OF COLUMBIA, FLORIDA, GEORGIA, KENTUCKY, MAINE, MARYLAND, MASSACHUSETTS, NEW HAMPSHIRE, NEW JERSEY, NEW YORK, NORTH CAROLINA, PENNSYLVANIA, PUERTO RICO, RHODE ISLAND, SOUTH CAROLINA, TENNESSEE, VERMONT, VIRGINIA, VIRGIN ISLANDS, OR WEST VIRGINIA,

SEND APPLICATIONS TO:

LICENSING ASSISTANCE TEAM
DIVISION OF NUCLEAR MATERIALS SAFETY
U.S. NUCLEAR REGULATORY COMMISSION, REGION I
2100 RENAISSANCE BOULEVARD, SUITE 100
KING OF PRUSSIA, PA 19406-2713

IF YOU ARE LOCATED IN:

ILLINOIS, INDIANA, IOWA, MICHIGAN, MINNESOTA, MISSOURI, OHIO, OR WISCONSIN, SEND APPLICATIONS TO:

MATERIALS LICENSING BRANCH
U.S. NUCLEAR REGULATORY COMMISSION, REGION III
2443 WARRENVILLE ROAD, SUITE 210
LISLE, IL 60532-4352

ALASKA, ARIZONA, ARKANSAS, CALIFORNIA, COLORADO, HAWAII, IDAHO, KANSAS, LOUISIANA, MISSISSIPPI, MONTANA, NEBRASKA, NEVADA, NEW MEXICO, NORTH DAKOTA, OKLAHOMA, OREGON, PACIFIC TRUST TERRITORIES, SOUTH DAKOTA, TEXAS, UTAH, WASHINGTON, OR WYOMING,

SEND APPLICATIONS TO:

NUCLEAR MATERIALS LICENSING BRANCH
U.S. NUCLEAR REGULATORY COMMISSION, REGION IV
1600 E. LAMAR BOULEVARD
ARLINGTON, TX 76011-4511

PERSONS LOCATED IN AGREEMENT STATES SEND APPLICATIONS TO THE U.S. NUCLEAR REGULATORY COMMISSION ONLY IF THEY WISH TO POSSESS AND USE LICENSED MATERIAL IN STATES SUBJECT TO U.S.NUCLEAR REGULATORY COMMISSION JURISDICTIONS.

1. THIS IS AN APPLICATION FOR *(Check appropriate item)*

- ☐ A. NEW LICENSE
- ☑ B. AMENDMENT TO LICENSE NUMBER 32-04054-04
- ☐ C. RENEWAL OF LICENSE NUMBER

2. NAME AND MAILING ADDRESS OF APPLICANT *(Include ZIP code)*

Commander, Department of the Army
Womack Army Medical Center (MCXC-DPM-RP)
2817 Reilly Road
Fort Bragg, NC 28310-7301

3. ADDRESS WHERE LICENSED MATERIAL WILL BE USED OR POSSESSED

Womack Army Medical Center
Building 4, Nuclear Medicine Service
2817 Reilly Road, Fort Bragg, NC 28310-7301

4. NAME OF PERSON TO BE CONTACTED ABOUT THIS APPLICATION

Captain Gary L. Hall

BUSINESS TELEPHONE NUMBER	BUSINESS CELLULAR TELEPHONE NUMBER
(910) 907-8364	

BUSINESS EMAIL ADDRESS
gary.l.hall6.mil@mail.mil

SUBMIT ITEMS 5 THROUGH 11 ON 8-1/2 X 11" PAPER. THE TYPE AND SCOPE OF INFORMATION TO BE PROVIDED IS DESCRIBED IN THE LICENSE APPLICATION GUIDE.

5. RADIOACTIVE MATERIAL
a. Element and mass number; b. chemical and/or physical form; and c. maiximum amount which will be possessed at any one time.

6. PURPOSE(S) FOR WHICH LICENSED MATERIAL WILL BE USED.

7. INDIVIDUAL(S) RESPONSIBLE FOR RADIATION SAFETY PROGRAM AND THEIR TRAINING EXPERIENCE.

8. TRAINING FOR INDIVIDUALS WORKING IN OR FREQUENTING RESTRICTED AREAS.

9. FACILITIES AND EQUIPMENT.

10. RADIATION SAFETY PROGRAM.

11. WASTE MANAGEMENT.

12. LICENSE FEES *(See 10 CFR 170 and Section 170.31)*

FEE CATEGORY — AMOUNT ENCLOSED $

13. CERTIFICATION. *(Must be completed by applicant) THE APPLICANT UNDERSTANDS THAT ALL STATEMENTS AND REPRESENTATIONS MADE IN THIS APPLICATION ARE BINDING UPON THE APPLICANT.*

THE APPLICANT AND ANY OFFICIAL EXECUTING THIS CERTIFICATION ON BEHALF OF THE APPLICANT, NAMED IN ITEM 2, CERTIFY THAT THIS APPLICATION IS PREPARED IN CONFORMITY WITH TITLE 10, CODE OF FEDERAL REGULATIONS, PARTS 30, 32, 33, 34, 35 , 36, 39, AND 40, AND THAT ALL INFORMATION CONTANED HEREIN IS TRUE AND CORRECT TO THE BEST OF THEIR KNOWLEDGE AND BELIEF.
WARNING: 18 U.S.C. SECTION 1001 ACT OF JUNE 25, 1948 62 STAT. 749 MAKES IT A C RIMINAL OFFENSE TO MAKE A WILLFULLY FALSE STATEMENT OR REPRESENTATION TO ANY DEPARTMENT OR AGENCY OF THE UNITED STATES AS TO ANY MATTER WITHIN ITS JURISDICTION.

CERTIFYING OFFICER -- TYPED/PRINTED NAME AND TITLE	SIGNATURE	DATE
Colonel Steven J. Brewster, U.S. Army, Commanding	Steven J. Brewster	20140221

FOR NRC USE ONLY

TYPE OF FEE	FEE LOG	FEE CATEGORY	AMOUNT RECEIVED $	CHECK NUMBER	COMMENTS
APPROVED BY				DATE	

NRC FORM 313A (RSO) (05-2012) | U.S. NUCLEAR REGULATORY COMMISSION

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

APPROVED BY OMB: NO. 3150-0120
EXPIRES: (05/31/2015)

Name of Proposed Radiation Safety Officer

Kacey D. McGee

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	Joint Base San Antonio, FT Sam Houston, TX Walter Reed NMMC, Bethesda, MD	76 27	10/07/2011 - 03/08/2013
Radiation protection	Joint Base San Antonio, FT Sam Houston, TX Walter Reed NMMC, Bethesda, MD	47 15	10/07/2011 - 03/08/2013
Mathematics pertaining to the use and measurement of radioactivity	Joint Base San Antonio, FT Sam Houston, TX Walter Reed NMMC, Bethesda, MD	6 6	10/07/2011 - 03/08/2013
Radiation biology	Joint Base San Antonio, FT Sam Houston, TX Walter Reed NMMC, Bethesda, MD	5 11	10/07/2011 - 03/08/2013
Radiation dosimetry	Joint Base San Antonio, FT Sam Houston, TX Walter Reed NMMC, Bethesda, MD	1 21	10/07/2011 - 03/08/2013
	Total Hours of Training:	215	

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	National Naval Medical Center NRMP # 19-0016-21NP WRNMMC NRMP # 19-00168-21JP Applied Science of Nuc Med Course Bethesda MD	12/2011 - 01/2014 (2 YRS) 2/2013-3/2013
Using and performing checks for proper operation of instruments used to determine the activity of dosages, survey meters, and instruments used to measure radionuclides	National Naval Medical Center NRMP # 19-0016-21NP WRNMMC NRMP # 19-00168-21JP Applied Science of Nuc Med Course Bethesda MD	12/2011 - 01/2014 2/2013-3/2013
Securing and controlling byproduct material	National Naval Medical Center NRMP # 19-0016-21NP WRNMMC NRMP # 19-00168-21JP Applied Science of Nuc Med Course Bethesda MD	12/2011 - 01/2014 2/2013-3/2013
Using administrative controls to avoid mistakes in administration of byproduct material	National Naval Medical Center NRMP # 19-0016-21NP WRNMMC NRMP # 19-00168-21JP Applied Science of Nuc Med Course Bethesda MD	12/2011 - 01/2014 2/2013-3/2013
Using procedures to prevent or minimize radioactive contamination and using proper decontamination procedures	National Naval Medical Center NRMP # 19-0016-21NP WRNMMC NRMP # 19-00168-21JP Applied Science of Nuc Med Course Bethesda MD	12/2011 - 01/2014 2/2013-3/2013
Using emergency procedures to control byproduct material	National Naval Medical Center NRMP # 19-0016-21NP WRNMMC NRMP # 19-00168-21JP Applied Science of Nuc Med Course Bethesda MD	12/2011 - 01/2014 2/2013-3/2013
Disposing of byproduct material	National Naval Medical Center NRMP # 19-0016-21NP WRNMMC NRMP # 19-00168-21JP Applied Science of Nuc Med Course Bethesda MD	12/2011 - 01/2014 2/2013-3/2013
Licensed Material Used (e.g., 35.100, 35.200, etc.)+ 35.100, 35.200, 35.300, 35.400, 35.600 as described in NRMP # 19-00168-21JP	National Naval Medical Center NRMP # 19-0016-21NP WRNMMC NRMP # 19-00168-21JP	12/2011 - 01/2014

+ 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
Charlie E. Brannon	NRMP # 19-00168-21JP

This license authorizes the following 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 (_____)

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 Officer, Mr. Charlie E. Brannon; WRNMMC NRMP # 19-00168-21JP/21NP	12/2011-01/2014
Radiation safety, regulatory issues, and emergency procedures for 35.300 uses	Radiation Safety Officer, Mr. Charlie E. Brannon; WRNMMC NRMP # 19-00168-21JP/21NP	12/2011-01/2014
Radiation safety, regulatory issues, and emergency procedures for 35.400 uses	Radiation Safety Officer, Mr. Charlie E. Brannon; WRNMMC NRMP # 19-00168-21JP/21NP	12/2011-01/2014
Radiation safety, regulatory issues, and emergency procedures for 35.600 - teletherapy uses	Radiation Safety Officer, Mr. Charlie E. Brannon; WRNMMC NRMP # 19-00168-21JP/21NP	12/2011-01/2014
Radiation safety, regulatory issues, and emergency procedures for 35.600 - remote afterloader uses	Radiation Safety Officer, Mr. Charlie E. Brannon; WRNMMC NRMP # 19-00168-21JP/21NP	12/2011-01/2014
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):		

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 *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
Charlie E. Brannon	NRMP # 19-00168-21NP/21JP

License/Permit lists supervising individual as:

☑ Radiation Safety Officer ☐ Authorized User ☐ Authorized Nuclear Pharmacist
☐ Authorized Medical Physicist

Authorized as RSO, AU, ANP, or AMP for the following 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.

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 Kacey D. McGee 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

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 Kacey D. McGee 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 Kacey D. McGee has achieved a level of radiation safety knowledge
Name of Proposed Radiation Safety Officer

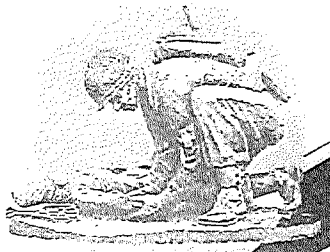
sufficient to function independently as a Radiation Safety Officer for a medical use licensee.

Fourth Section
Complete the following for Preceptor Attestation and signature

I am the Radiation Safety Officer for Walter Reed National Military Medical Center
Name of Facility

License/Permit Number: NRMP # 19-00168-21JP

Name of Preceptor	Signature	Telephone Number	Date
Charlie E. Brannon	Charlie E Brannon	(301) 295-4994	02/26/2014



UNITED STATES ARMY
MEDICAL DEPARTMENT CENTER & SCHOOL

TO CONSERVE FIGHTING STRENGTH

ACADEMY OF HEALTH SCIENCES
DIPLOMA

2LT KACEY D MCGEE

has successfully completed the

MS - NUCLEAR MED SCIENCE BASIC OFF LEADER COURSE
6-8-C20B(MS72A)

Fort Sam Houston, Texas
07 October 2011 to 16 December 2011

RANDALL G. ANDERSON
Colonel, MS
Dean, Academy of Health Sciences

Certificate of Training

is hereby granted to:

2LT Kacey McGee

to certify that he/she has completed to satisfaction

DOT & NRC Requirements for General Radiation Safety, RAM Receipt, Return of RAM, RADIAC Shipment and RAM Handling

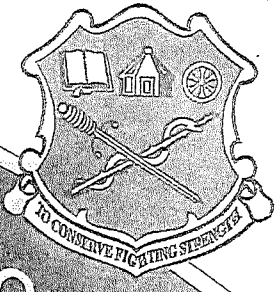
16 Feb 2012

Presented By: Kevin T. Allen, Instructor
Presented For: National Naval Medical Center
Presented At: Bethesda, MD

This certifies that the employee named on this certificate has been trained and tested in accordance with the training requirement in 49 CFR 172, Subpart H.

Radiation Safety Officer Signature

UNITED STATES ARMY
MEDICAL DEPARTMENT CENTER & SCHOOL



ACADEMY OF HEALTH SCIENCES
CERTIFICATE

2LT KACEY D MCGEE

has successfully completed the

MEDICAL X-RAY SURVEY TECHNIQUES COURSE
6H-F18/322-F18

Fort Sam Houston, Texas
16 April 2012 to 27 April 2012

RANDALL G. ANDERSON
Colonel, MS
Dean, Academy of Health Sciences

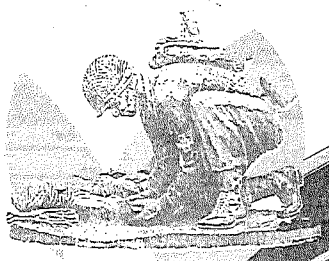
Medical X-ray Survey Techniques Course
16-27 April (80 hours) 10 day Course

Mimeo #	Title	Page Number
PNFX7101	Radiation Safety Briefing	Rad Prot./Bio. 1
PNFX7102	Overview of Diagnostic Radiology	Inst./Phys. 23
PNFX7103	Production of X-rays HV Eqns.	Inst./Phys. 40
PNFX7104	Interactions Between X-rays and Matter	Math 68
PNFX7105	X-ray Generators	Inst./Phys. 82
PNFX7106	Attenuation of X-rays	Math 110
PNFX7107	Measurement of X-rays	Inst./Phys. 124
PNFX7108	Filters, Collimators, and Grids	Inst./Phys. 144
PNFX7109	The Image Receptor - Film	Inst./Phys. 159
PNFX7110	Introduction to Computed Radiography	↓ 174
PNFX7111	Digital Image Receptors	↓ 185
PNFX7112	Operation and Limitation of Non-invasive X-ray Survey Equipment	Inst./Phys. 210
PNFX7113	Quality Assurance	229
PNFX7114	CT Survey Methods	Inst./Phys 242
PNFX7115	X-ray Computed Tomography	↓ 267
PNFX7117	Specialized X-ray Equipment	Inst./Phys 285
PNFX7118	Federal Performance Standards	308
PNFX7119	Introduction to MQSA	328
PNFX7120	Lab 1: X-ray measurement Considerations	Inst/Phys. 344
PNFX7121	Lab II: Half-Value Layer	↓ 348
PNFX7122	Lab III: X-ray Beam Geometry	↓ 354
PNFX7123	Lab IV: Radiation Output	↓ 360
PNFX7124	Practical Exercise: x-ray Survey Data Analysis Technique and Survey Procedures	Inst./Phys. 366
PNFX7125	Review of Labs I - IV	394
PNFX7126	Practical Exercise: X-ray Survey Data Analysis Practical Exercise	Math 398
PNFX7127	Lab VII: Survey of Mobile X-ray Units	Inst./Phys. 414
PNFX7128	Lab VIII: Survey of Fluoroscopic Units	↓ 425
PNFX7129	Lab IX: Survey of General Purpose Radiographic Units	↓ 451
PNFX7130	Lab VI: Survey of Dental Radiographic Units	Inst./Phys. 476
21CFR Part 900 through 1020 (i.e., 21 CFR Part 900 - Mammography.docx)		488
21CFR Part 1000 through 1020 (i.e., 21 CFR PART 1000 – 1020.docx)		511

Classroom Training (7 days)

Lab Exercises (3 days)

		Class room	Lab
Radiation Physics and Instrumentation:	69	47	22
Radiation Protection:	1	1	0
Math Pertaining to Radiation:	4	3	1
Radiation Biology:	1	1	0
Radiation Dosimetry:	0	0	0



UNITED STATES ARMY
MEDICAL DEPARTMENT CENTER & SCHOOL

TO CONSERVE FIGHTING STRENGTH

ACADEMY OF HEALTH SCIENCES
CERTIFICATE

2LT KACEY D MCGEE

has successfully completed the

RADIOLOGICAL HAZARDS OPERATOR COURSE
6H-F45/322-F36

Fort Sam Houston, Texas
07 September 2012 to 15 September 2012

RANDALL G. ANDERSON
Colonel, MS
Dean, Academy of Health Sciences

IDAHO NATIONAL LABORATORY

NUCLEAR/RADIOLOGICAL SEARCH & RESPONSE TRAINING PROGRAM

AMEDD RDD Materials Training Course

6-14 September 2012

Thursday, September 6

1800	Student Brief – Hampton Inn Eagle Rock West Conf. Room	USAPHC/AMEDDC&S

Friday, September 7 (Students in RWII Training @ EITC)

1 Rad Phys. & Inst.
1 Rad Prot.
1 Rad Bio

0700	RWII Training Module 8 - EITC	INL RadCon Training
	RWII Written Exam - EITC	INL RadCon Training
	RWII Practical - EITC	INL RadCon Training
1800	Adjourn	

Friday, September 7 (Lane OCs and INL OCs)

0900	Target sites walkdown (Lane OCs)	Turnage/Giles/Thalgott/Hungate/Oertel
1130	Lunch	
1300	Target sites walkdown continued	

Saturday, September 8 (*EROB – Conf Rm 159*)

1 Math
1 Rad Prot
1 Rad Phys. & Inst.
1 Rad Prot.

0800	Welcome, INL Briefing,	Turnage
	INL Safety and Access Logistics	Giles
0900	Health Physics Basics and Calculations	Overturf
	Review of Rad Ranger Handbook	
1030	Operational Risk Management for Radiological Hazards (RES/OEG)	Goodison
1130	Lunch	
1230	Radiological Survey Operations	Goodison
	Radiological Site Assessments	
1330	Radiological Operations Emergency Response	LTC Scott
1430	OPORD/Troop Leading Procedures	LTC Chavez/CPT Carranza
1700	Equipment Issue (Hampton Inn)	AMEDDC&S/USAPHC

Sunday, September 9 (*EROB – Conf Rm 159*)

1 Math
1 Dosimetry
2 Rad Phys. & Inst.

0700	Troop Leading Procedures Back Brief	LTC Chavez/CPT Carranza
0815	Risk Communication	LTC Scott
09:15	Air Sampling (Calculations and Equipment)	LTC Reyes
1045	Managing Event Radiation Dosimetry And Radiation Doses	LTC Reyes
1145	Lunch	
1245	Equipment Overview	Williams
	AN/PDR-77, UDR 13/14	
	IdentiFinder	
1500	RWII Practical - EITC	INL RadCon Training
1800	Adjourn	

Monday, September 10 (*Materials & Fuels Complex – TREAT Reactor Building*)

0800	Welcome	Turnage
0830	RWP Brief, dosimetry distribution	MFC RadCon
0900	Rotating Workshops (3 Groups of 8)	
	Workshop 1: *Survey & Source ID*	Giles/Oertel
	Workshop 2: *Area Survey Techniques & Alpha/Beta Wipe Counting*	Thalgott
	Workshop 3: *Source Packaging Lecture*	Engelstad
1200	Workshop Discussion (*working lunch*)	
1300	Rotating Workshops continued	All
1500	Large Source Walk-up	All
1600	Open Discussion – Adjourn	

5 Rad Prot.

1 Inst. 3 Phys.

Tuesday, September 11 (*Critical Infrastructure Test Range, CITRC*)

0730	RWP Briefing	Detrick
0800	Rotating Practical Exercises - "Walk" Phase (3 Groups of 8)	
	Team A: *Base Camp Assessment*	Oertel/LTC Reyes/Williams
	Team B: *Vehicle Accident/RDD Site*	Hungate/LTC Scott/Miller
	Team C: *Source Survey/Contamination/Packaging*	Giles/Thalgott/LTC Pitcher/Overturf
1030	Rotating Practical Exercises - "Walk" Phase (3 Groups of 8)	
	Team B: *Base Camp Assessment*	Oertel/LTC Reyes/Williams
	Team C: *Vehicle Accident/RDD Site*	Hungate/LTC Scott/Miller
	Team A: *Source Survey/Contamination/Packaging*	Giles/Thalgott/LTC Pitcher/Overturf
1300	Rotating Practical Exercises - "Walk" Phase (3 Groups of 8)	
	Team C: *Base Camp Assessment*	Oertel/USAPHC/US Army
	Team A: *Vehicle Accident/RDD Site*	Hungate/LTC Scott/Miller
	Team B: *Source Survey/Contamination/Packaging*	Giles/Thalgott/LTC Pitcher/Overturf
1600	Open Discussion – Adjourn	

8 Rad Prot.

Wednesday, September 12 (*CITRC*)

0800	Team A: *Base Camp Assessment*	Oertel/LTC Reyes/Williams
	1. Site Survey	
	2. Structure Survey	
	3. Brief to Commander	
	Team B: *Vehicle Accident/RDD Site*	Hungate/LTC Scott/Miller
	1. Vehicle Accident Characterization/Survey	
	2. Casualties	
	3. Risk Communications	
	4. Secondary Device	
	5. Brief to Commander	
	Team C: *Source Survey/Contamination/Packaging*	Giles/Thalgott/LTC Pitcher/Overturf
	1. Building Search	
	2. Contamination Survey	
	3. Source Packaging	
	4. Brief to Commander	
1700	Adjourn	

1 Rad Prot. X 3 days

Thursday, September 13 (*CITRC*)

0800 Team B: *Base Camp Assessment* — Oertel/LTC Reyes/Williams
1. Site Survey
2. Structure Survey
3. Brief to Commander

Team C: *Vehicle Accident/RDD Site* — Hungate/LTC Scott/Miller
1. Vehicle Accident Characterization/Survey
2. Casualties
3. Risk Communications
4. Secondary Device
5. Brief to Commander

Team A: *Source Survey/Contamination/Packaging* — Giles/Thalgott/LTC Pitcher/Overturf
1. Building Search
2. Contamination Survey
3. Source Packaging
4. Brief to Commander

1700 Adjourn

Friday, September 14 (*CITRC*)

0800 Team C: *Base Camp Assessment* — Oertel/LTC Reyes/Williams
1. Site Survey
2. Structure Survey
3. Brief to Commander

Team A: *Vehicle Accident/RDD Site* — Hungate/LTC Scott/Miller
1. Vehicle Accident Characterization/Survey
2. Casualties
3. Risk Communications
4. Secondary Device
5. Brief to Commander

Team B: *Source Survey/Contamination/Packaging* — Giles/Thalgott/LTC Pitcher/Overturf
1. Building Search
2. Contamination Survey
3. Source Packaging
4. Brief to Commander

1700 Course AAR

1900 Dinner/Slide Show ***(Sandpiper Restaurant, Idaho Falls)***

INL Training Coordinator: Jennifer Turnage (208.521.5961); Instructors: John Giles (208.241.7341), Chris Oertel (208.521.7403), James Thalgott (208.680.8670), Gary Engelstad (208.569.9162), Kevin Hungate (208.520.5977)

Rad Phys. & Inst.: 7
Rad Prot. 46
Math Pertaining to Radioactivity: 2
Rad Biology: 4
Rad Dosimetry: 1

Walter Reed National Military Medical Center

Basic and Applied Science of Nuclear Medicine Course

February 25—March 8, 2013

Certification of Completion of 80 Hours of Classroom Instruction

2LT Kacey D. McGee

Saira Aslam

8 March 2013

Saira Aslam, MD, CDR MC USN, Course Director — Date