

DATE: 13 MAR 07

TO: Nuclear Regulatory Commission
Materials Licensing Branch (Region III)

REF: Materials License Number 24-15095-01

ATTN: Loren J. Hueter and/or Bill Reichhold

FROM: 1LT Kevin S. Mattern
126 Missouri Avenue
ATTN MCXP-PMD-RP (Room 70/Box 1232)
Fort Leonard Wood, MO 65473
(573)596-0449
kevin.mattern@amedd.army.mil

REMARKS: Attached is the NRC Form 313a for an individual that we wish to add to our license as the RSO, 1LT Kevin S. Mattern, along with documentation of their training (11 pages). Please let me know when you receive this fax and if there is any other documentation or forms that you need from us.

NRC FORM 313A (RSO) (10-2006)	U.S. NUCLEAR REGULATORY COMMISSION	APPROVED BY OMB: NO. 3150-0120 EXPIRES: 10/31/2008																																											
RADIATION SAFETY OFFICER TRAINING AND EXPERIENCE AND PRECEPTOR ATTESTATION [10 CFR 35.50]																																													
Name of Proposed Radiation Safety Officer KEVIN S. MATTERN, 1LT, USA																																													
Requested Authorization(s) <i>The license authorizes the following medical uses (check all that apply):</i>																																													
<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 checked="" type="checkbox"/> 35.1000 (_____)																																													
PART I - TRAINING AND EXPERIENCE <i>(Select one of the four methods below)</i>																																													
*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.																																													
<input type="checkbox"/> 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																																													
<input type="checkbox"/> 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																																													
<input checked="" type="checkbox"/> 3. Structured Educational Program for Proposed Radiation Safety Officer																																													
a. Classroom and Laboratory Training																																													
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 35%;">Description of Training</th> <th style="width: 35%;">Location of Training</th> <th style="width: 15%;">Clock Hours</th> <th style="width: 15%;">Dates of Training*</th> </tr> </thead> <tbody> <tr> <td rowspan="2">Radiation physics and instrumentation</td> <td>US ARMY Chemical School</td> <td>50</td> <td>JAN-FEB 06</td> </tr> <tr> <td>Fort Leonard Wood, MO (GLWACH)</td> <td>12</td> <td>DEC05-MAR07</td> </tr> <tr> <td rowspan="2">Radiation protection</td> <td>US ARMY Chemical School</td> <td>45</td> <td>JAN-FEB 06</td> </tr> <tr> <td>Fort Leonard Wood, MO (GLWACH)</td> <td>16</td> <td>DEC05-MAR07</td> </tr> <tr> <td rowspan="2">Mathematics pertaining to the use and measurement of radioactivity</td> <td>US ARMY Chemical School</td> <td>10</td> <td>JAN-FEB 06</td> </tr> <tr> <td>Fort Leonard Wood, MO (GLWACH)</td> <td>30</td> <td>DEC05-MAR07</td> </tr> <tr> <td rowspan="2">Chemistry of byproduct material for medical use</td> <td>US ARMY Chemical School</td> <td>15</td> <td>JAN-FEB 06</td> </tr> <tr> <td>Fort Leonard Wood, MO (GLWACH)</td> <td>25</td> <td>DEC05-MAR07</td> </tr> <tr> <td rowspan="2">Radiation biology</td> <td>US ARMY Chemical School</td> <td>25</td> <td>JAN-FEB 06</td> </tr> <tr> <td>Fort Leonard Wood, MO (GLWACH)</td> <td>15</td> <td>DEC05-MAR07</td> </tr> <tr> <td colspan="2" style="text-align: right;">Total Hours of Training:</td> <td style="text-align: center;">243</td> <td></td> </tr> </tbody> </table>	Description of Training	Location of Training	Clock Hours	Dates of Training*	Radiation physics and instrumentation	US ARMY Chemical School	50	JAN-FEB 06	Fort Leonard Wood, MO (GLWACH)	12	DEC05-MAR07	Radiation protection	US ARMY Chemical School	45	JAN-FEB 06	Fort Leonard Wood, MO (GLWACH)	16	DEC05-MAR07	Mathematics pertaining to the use and measurement of radioactivity	US ARMY Chemical School	10	JAN-FEB 06	Fort Leonard Wood, MO (GLWACH)	30	DEC05-MAR07	Chemistry of byproduct material for medical use	US ARMY Chemical School	15	JAN-FEB 06	Fort Leonard Wood, MO (GLWACH)	25	DEC05-MAR07	Radiation biology	US ARMY Chemical School	25	JAN-FEB 06	Fort Leonard Wood, MO (GLWACH)	15	DEC05-MAR07	Total Hours of Training:		243			
Description of Training	Location of Training	Clock Hours	Dates of Training*																																										
Radiation physics and instrumentation	US ARMY Chemical School	50	JAN-FEB 06																																										
	Fort Leonard Wood, MO (GLWACH)	12	DEC05-MAR07																																										
Radiation protection	US ARMY Chemical School	45	JAN-FEB 06																																										
	Fort Leonard Wood, MO (GLWACH)	16	DEC05-MAR07																																										
Mathematics pertaining to the use and measurement of radioactivity	US ARMY Chemical School	10	JAN-FEB 06																																										
	Fort Leonard Wood, MO (GLWACH)	30	DEC05-MAR07																																										
Chemistry of byproduct material for medical use	US ARMY Chemical School	15	JAN-FEB 06																																										
	Fort Leonard Wood, MO (GLWACH)	25	DEC05-MAR07																																										
Radiation biology	US ARMY Chemical School	25	JAN-FEB 06																																										
	Fort Leonard Wood, MO (GLWACH)	15	DEC05-MAR07																																										
Total Hours of Training:		243																																											

NRC FORM 313A (RSO)
(10-2005)

U.S. NUCLEAR REGULATORY COMMISSION

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	General Leonard Wood Army Community Hospital, MO #24-15095-01	DEC05-JAN07
Using and performing checks for proper operation of instruments used to determine the activity of dosages, survey meters, and instruments used to measure radionuclides	General Leonard Wood Army Community Hospital, MO #24-15095-01	DEC05-JAN07
Securing and controlling byproduct material	General Leonard Wood Army Community Hospital, MO #24-15095-01	DEC05-JAN07
Using administrative controls to avoid mistakes in administration of byproduct material	General Leonard Wood Army Community Hospital, MO #24-15095-01	DEC05-JAN07
Using procedures to prevent or minimize radioactive contamination and using proper decontamination procedures	General Leonard Wood Army Community Hospital, MO #24-15095-01	DEC05-JAN07
Using emergency procedures to control byproduct material	General Leonard Wood Army Community Hospital, MO #24-15095-01	DEC05-JAN07
Disposing of byproduct material	General Leonard Wood Army Community Hospital, MO #24-15095-01	DEC05-JAN07
Licensed Material Used (e.g., 36.100, 35.200, etc.) _____ _____ _____	General Leonard Wood Army Community Hospital, MO #24-15095-01	DEC05-JAN07

* 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).

NRG FORM 313A (RSO)
(10-2006)

U.S. NUCLEAR REGULATORY COMMISSION

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 <i>Dr. Adam Benson, MAJ, USA</i>	License/Permit Number listing supervising individual as a Radiation Safety Officer <i># 24-15095-01</i>
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"/> 35.600 (remote afterloader)
<input type="checkbox"/> 35.600 (gamma stereotactic radiosurgery)	<input checked="" type="checkbox"/> 35.1000 (_____)
<input type="checkbox"/> 35.300	<input type="checkbox"/> 35.400
<input type="checkbox"/> 35.600 (teletherapy)	

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	General Leonard Wood Army Community Hospital, MO	DEC05-MAR07
Radiation safety, regulatory issues, and emergency procedures for 35.300 uses	General Leonard Wood Army Community Hospital, MO	DEC05-MAR07
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		
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):	General Leonard Wood Army Community Hospital, MO	DEC05-MAR07

NRC FORM 313A (RSO)
(10-2006)

U.S. NUCLEAR REGULATORY COMMISSION

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)

<p><i>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.)</p> <p><u>Dr. Adam Benson, MAJ, USA</u></p>	<p>License/Permit Number listing supervising individual</p> <p><u># 24-15095-01</u></p>
<p>License/Permit lists supervising individual as:</p> <p><input checked="" type="checkbox"/> Radiation Safety Officer <input checked="" type="checkbox"/> Authorized User <input type="checkbox"/> Authorized Nuclear Pharmacist</p> <p><input type="checkbox"/> Authorized Medical Physicist</p> <p>Authorized as RSO, AU, ANP, or AMP for the following medical uses:</p> <p><input checked="" type="checkbox"/> 35.100 <input checked="" type="checkbox"/> 35.200 <input checked="" type="checkbox"/> 35.300 <input type="checkbox"/> 35.400</p> <p><input type="checkbox"/> 35.500 <input type="checkbox"/> 35.600 (remote afterloader) <input type="checkbox"/> 35.600 (teletherapy)</p> <p><input type="checkbox"/> 35.600 (gamma stereotactic radiosurgery) <input checked="" type="checkbox"/> 35.1000 (_____)</p>	

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 KEVIN S. MATTERN 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

NRC FORM 313A (RSD)
(10-2006)

U.S. NUCLEAR REGULATORY COMMISSION

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 KEVIN S. MATERN 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

35.800 teletherapy units

35.600 gamma stereotactic radiosurgery units

35.1000 emerging technologies, including:

NRC FORM 313A (RSO)
(10-2006)

U.S. NUCLEAR REGULATORY COMMISSION

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

AND

Third Section
Complete for ALL

I attest that KEVIN S. MATTERN 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 GENERAL LEONARD WOOD ARMY COMMUNITY HOSPITAL
Name of Facility

License/Permit Number: 24-15095-01

Name of Preceptor	Signature	Telephone Number	Date
Dr. Adam Benson, MAJ, USA		573-96-0029	5/13/07

REPLY TO
ATTENTION OF

DEPARTMENT OF THE ARMY
HEADQUARTERS, USA MEDICAL DEPARTMENT ACTIVITY
126 MISSOURI AVENUE
FORT LEONARD WOOD, MISSOURI 65473-8952

MCXP-PMD- RP

13 March 2007

MEMORANDUM FOR RECORD

SUBJECT: Acknowledgement of Appointment as Radiation Safety Officer

Acknowledgement

1. References
 - a. Title 10 Code of Federal Regulations
 - b. AR 11-9 The Army Radiation Safety Program
 - c. MEDCOM Regulation 40-42, US Army Medical Command Radiation Safety Program
 - d. USNRC License 24-15095-01

2. By signature hereon, I acknowledge my appointment as the Radiation Safety Staff Officer for General Leonard Wood Army Community Hospital (GLWACH). I understand my responsibilities and accountabilities inherent in the implementation of the radiation protection program. I shall discharge those duties in accordance with Title 10 Code of Federal Regulations and applicable Army and MEDCOM regulations. The duties and responsibilities include:
 - a. Ensuring the safe use of byproduct material. 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 for the use of byproduct material.
 - b. The Radiation Safety Officer is hereby delegated the authority necessary to meet these responsibilities. The Radiation Safety Officer has the authority to immediately stop any operations involving the use of byproduct material in compliance with NRC requirements.
 - c. Notifying the Chairman of the GLWACH Radiation Control Committee upon the discovery of unsafe conditions or non-compliance with regulatory requirements.
 - d. Making required notifications to the NRC.

3. I further understand that this appointment will remain in effect until revoked in writing by you or your successor.

KEVIN SCOTT MATTERN
1LT, MS
C, RADIATION PROTECTION

CURRICULUM VITAE
KEVIN S. MATTERN
1LT, MS
Nuclear Medicine Science Officer

EDUCATION

DATES	NAME/LOCATION	DEGREE
2006-Present	St. Louis University, MO.	Executive Master of International Business
2002-2005	Washington State University, WA.	Master of Science, Physics
2002-2004	Washington State University, WA.	Certification, Optoelectronics
1998-2002	Wake Forest University, NC.	Bachelor of Science, Mathematics and Physics

ASSIGNMENTS

DATES	POSITION/ORGANIZATION/LOCATION
12/05 - Present	Chief, Health Physics, General Leonard Wood Army Community Hospital, Fort Leonard Wood, MO; Radiation Protection Officer, Irwin Army Community Hospital, Fort Riley, KS and Mumson Army Community Hospital, Fort Leavenworth, KS
8/02 - 5/05	Research Assistant, Dynamic Shock Compression and Team Leader, Cyclic Loading of Single Crystals, Institute for Shock Physics, Pullman, WA.
1/00 - 5/02	Laboratory Instructor, Department of Physics and Tutorial Leader, Department of Mathematics, Wake Forest University, Winston-Salem, NC.

SHORT COURSES

- Principles of Military Preventive Medicine, 2005, AMEDD Center & School, Fort Sam Houston, TX.
- Basic Industrial Hygiene Course, 2005, AMEDD Center & School, Fort Sam Houston, TX.
- Radiological Safety Course, 2006, US Army Chemical School, Fort Leonard Wood, MO.
- X-ray Survey Techniques Course, 2006, AMEDD Center & School, Fort Sam Houston, TX.
- Basic Hazardous and Radioactive Materials Transportation Course, 2006, Brooke Army Medical Center, Fort Sam Houston, TX.

NRC FORM 374

U.S. NUCLEAR REGULATORY COMMISSION

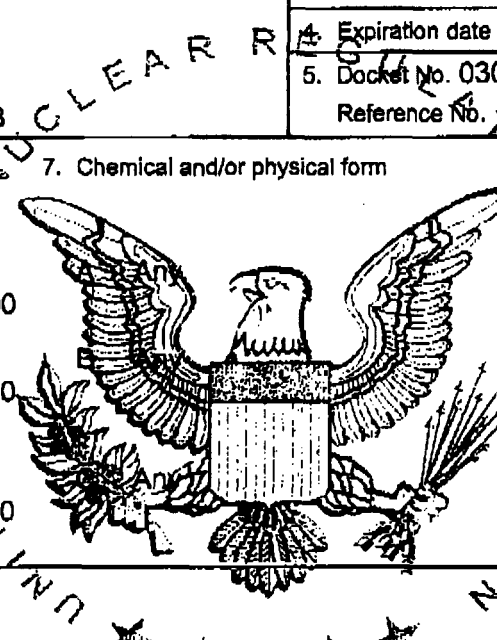
PAGE 1 OF 2 PAGES
Amendment No. 42

MATERIALS LICENSE

Pursuant to the Atomic Energy Act of 1954, as amended, the Energy Reorganization Act of 1974 (Public Law 93-438), and Title 10, Code of Federal Regulations, Chapter I, Parts 30, 31, 32, 33, 34, 35, 36, 39, 40, and 70, and in reliance on statements and representations heretofore made by the licensee, a license is hereby issued authorizing the licensee to receive, acquire, possess, and transfer byproduct, source, and special nuclear material designated below; to use such material for the purpose(s) and at the place(s) designated below; to deliver or transfer such material to persons authorized to receive it in accordance with the regulations of the applicable Part(s). This license shall be deemed to contain the conditions specified in Section 183 of the Atomic Energy Act of 1954, as amended, and is subject to all applicable rules, regulations, and orders of the Nuclear Regulatory Commission now or hereafter in effect and to any conditions specified below.

<p>Licensee</p> <p>1. Department of the Army Commander USA MEDDAC</p> <p>2. ATTN: MCXP PMD RP 126 Missouri Ave., Box 1232 Fort Leonard Wood, MO 65473</p>	<p>In accordance with the letter dated December 8, 2005,</p> <p>3. License number 24-15095-01 is amended in its entirety to read as follows:</p> <hr/> <p>4. Expiration date August 31, 2013</p> <hr/> <p>5. Docket No. 030-08561 Reference No.</p>
---	--

<p>6. Byproduct, source, and/or special nuclear material</p> <p>A. Any byproduct material permitted by 10 CFR 35.100</p> <p>B. Any byproduct material permitted by 10 CFR 35.200 except xenon-133</p> <p>C. Any byproduct material permitted by 10 CFR 35.300</p>	<p>7. Chemical and/or physical form</p>	<p>8. Maximum amount that licensee may possess at any one time under this license</p> <p>A. As needed</p> <p>B. As needed</p> <p>C. 1000 millicuries</p>
---	---	--



9. Authorized Use:
- A. Any uptake, dilution and excretion study permitted by 10 CFR 35.100.
 - B. Any imaging and localization study permitted by 10 CFR 35.200.
 - C. Any diagnostic or therapy procedure permitted by 10 CFR 35.300.

CONDITIONS

- 10. Licensed material may be used or stored only at the licensee's facilities located at General Leonard Wood Army Community Hospital, 126 Missouri Ave., Fort Leonard Wood, Missouri.
- 11. The Radiation Safety Officer for this license is Adam J. Benson, M.D.

NRC FORM 374A

U.S. NUCLEAR REGULATORY COMMISSION

PAGE 2 of 2 PAGES

**MATERIALS LICENSE
SUPPLEMENTARY SHEET**

License Number
24-15095-01

Docket or Reference Number
030-08561

Amendment No. 42

12. Licensed material is only authorized for use by, or under the supervision of:

A. Individuals permitted to work as an authorized user, authorized nuclear pharmacist, and/or authorized medical physicist in accordance with 10 CFR 35.13 and 35.14;

B. The following individuals are authorized users for medical use:

Authorized Users

Material and Use

Adam J. Benson, M.D.

35.100, 35.200 and 35.300.

13. Pursuant to 10 CFR Part 40, "Domestic Licensing of Source Material," the licensee is authorized to possess, use, transfer, and import up to 999 kilograms of depleted uranium contained as shielding material.

14. Except as specifically provided otherwise in this license, the licensee shall conduct its program in accordance with the statements, representations and procedures contained in the documents, including any enclosures, listed below. This license condition applies only to those procedures that are required to be submitted in accordance with the regulations. A condition of this license does not limit the licensee's ability to make changes to the program as provided for in 10 CFR 35.26. The U.S. Nuclear Regulatory Commission's regulations shall govern unless the statements, representations, and procedures in the licensee's application and correspondence are more restrictive than the regulations.

A. Application dated January 29, 2002.

FOR THE U.S. NUCLEAR REGULATORY COMMISSION

MAY 22 2006

Date _____

By _____

Loren J. Hueter
Materials Licensing Branch
Region III