

### DEPARTMENT OF THE ARMY

HEADQUARTERS, US ARMY MEDICAL DEPARTMENT ACTIVITY 1650 COCHRANE CIRCLE

FORT CARSON, CO 80913-4604



REPLY TO ATTENTION OF

MCXE-PMD-RSO

3 February 2014

MEMORANDUM FOR U. S. Nuclear Regulatory Commission, Region IV, 1600 East Lamar BLVD, Suite 400, Arlington, Texas 76011-4125

SUBJECT: Amendment Request for US Nuclear Regulatory Commission (NRC) Byproduct Material License Number 05-26854-01

1. Request NRC License No. 05-26854-01 be amended with the following changes:

Add Reed K. Smith, M.D., as an authorized user to prescribe, prepare and administer radiopharmaceuticals for medical diagnosis and therapy in accordance with 10 CFR 35.100, 35.200, and 35.300. Enclosure 1 contains Dr. Smith's supporting documents for addition as an authorized user. Enclosure 2 contains a copy of amendment no. 23 of license 05-26854-01 where Dr. Smith was previously listed as an authorized user.

- 2. The Radiation Safety Committee has reviewed and approved these actions.
- 3. The point of contact for this memorandum is CPT Sherry Kwasnik, RSO at (719) 526-7047 or sherry.e.kwasnik.mil@mail.mil.

2 Enclosures

SHERRY KWASNI

CPT, MS

Radiation Safety Officer

CF:

WRMC Command Radiation Safety Officer (ATTN: Glenn McDermott) **EACH Radiation Safety Committee Members** 

PUBLIC

☐ Immediate Release

Normal Release

NON-PUBLIC

A.3 Sensitive-Security Relate

☐ A.7 Sensitive Internal

Other:

Date: 2-6-14

1. In accordance with U.S. Nuclear Regulatory Commission broad scope byproduct material license Number 42-01368-01, Brooke Army Medical Center (BAMC) Memo 40-72, and Army Radiation Authorization (ARA) 42-01-16, the BAMC Radiation Control Committee (RCC) issues the following RCC Permit:

a. Permit Number: NM-RS-1

b. Permit Expiration Date: Apr 2007

c. Permitted Individual: LTC Reed K. Smith

d. Permitted Activities: Authorized User (AU) IAW Title 10 CFR Part 35.

- 2. The permitted individual is responsible for complying with the requirements of Title 10, Code of Federal Regulations, USNRC License 42-01368-01, Army Radioisotope Authorization 42-01-16, BAMC Memo No. 40-72, established operating procedures, and the conditions of this permit.
- 3. The permitted individual is authorized to prescribe, prepare and administer radiopharmaceuticals for medical research, medical diagnosis, and therapy as specified below:

	Requirement Met	Authorized Use
a.	10 CFR 35.100	Medical Use of Unsealed Byproduct Material for Uptake, Dilution, and Excretion Studies for Which a Written Directive is Not Required
b.	10 CFR 35.200	Medical Use of Unsealed Byproduct Material for Imaging and Localization Studies for Which a Written Directive is Not Required
c.	10 CFR 35.300	Medical Use of Unsealed Byproduct Material for Which a Written Directive is Required
d.	10 CFR 35.500	Medical Use of Sealed Sources for Diagnosis

- 4. All preparation and administration of radiopharmaceuticals will be performed by the permitted individual, an individual supervised by the permitted individual IAW 35.27, or a student under the direct control of the permitted individual or a supervised individual. The permitted individual will ensure the addendum to the Nuclear Medicine Service ARSO permit lists all individuals supervising when the updated addendum is forwarded to the RSO.
- 5. Students administering radiopharmaceuticals shall be under the direct control of an individual authorized to administer radiopharmaceuticals. Direct control requires that the authorized individual observe and control every aspect of the student's actions. The authorized individual is responsible for the action and omission of the individual under their direct control.
- 6. The permitted individual shall immediately report unsafe conditions, loss of accountability of radioactive materials, or violations of operating procedures, regulatory requirements, or the conditions of this permit to the Radiation Safety Officer.

7. The permitted individual shall comply with the HPS013 SOP. All I-131 therapies in excess of 33 mCi are admitted as inpatients, overnight unless prior RCC approval is obtained for immediately release.

APPROVED BY THE RCC electronically in: Apr 06 (Tracking Number RCC-0602-004)

Donald L. Crady, Jr.

CPT, MS

Recorder, Radiation Control Committee

Date: 1 MAY 06

MDC	FORM	242 A
INKO	LOUM	PIOM
110-20	(02)	

U.S. NUCLEAR REGULATORY COMMISSION

APPROVED BY OMB: NO. 3150-0120 EXPIRES: 10/31/2005

### TRAINING AND EXPERIENCE AND PRECEPTOR STATEMENT

### PART I -- TRAINING AND EXPERIENCE

Note: Descriptions of training and experience must contain sufficient detail to match the training and experience criteria in the applicable regulations.

 Name of Individual, Proposed Authorization (e.g., Radiation Safety Officer), and Applicable Training Requirements (e.g., 10 CFR 35,50)

Read Smith

Authorized User, 10 CFR 35.190, 35.290 and 35.390

 For Physicians, Podlatrists, Dentlets, Pharmaclets -- State or Territory Where Licensed Nebraska

3. CER	TIFICATION	
Specialty Board	Category	Month and Year Certified
American Board of Family Physicians American Board of Nuclear Medicine		July 1996 Pending

Stop here when using Board Certification to meet 10 CFR Part 35 training and experience requirements.

Description of Training	Location	Clock Hours	Dates of Training	
Radiation Physics and Instrumentation	Brooke Army Medical Center Wilford Hall Medical Center UTSA Medical Center	120	(1)	
Radiation Protection	и п	120	(1)	
Mathematics Pertaining to the Use and Measurement of Radioactivity	n u	120	(1)	
Radiation Biology	а п	120	(1)	
Chemistry of Byproduct Material for Medical Use	11 0	120	(1)	
THER		Total Hours: 600		
(1) Nuclear Medicine Fellowship Program 1 July 2001-30 June 2003			**	

		50 W/O	K EYDE	RIENCE WITH RADIA	TION		
De	scription of Experience	5a. 9401	TAPE	Name of Supervising Individual(s)	Location and Corresponding Materials License Number	Dates and Clock Hour of Experience	
Ordering, receiving, and unpacking radioactive materials safely and performing the related radiation surveys			(2)		(3)	(1) 250	
activity of dosa	truments used to determine ges, and performing checks on of survey meters	the for	(2)		(3)	(1) 250	
	easuring, and safely prepar an research subject dosage:		(2)		(3)	(1) 250	
Using administrevent involving material	rative controls to prevent a r the use of unsealed byprod	nedical uct	(2)		(3)	(1) 250	
Using procedur material safely a procedures	es to contain spilled byprod and using proper decontam	uct ination	(2)		(3)	(1) 250	
eluting generator systems, measuring and testing the eluate for radionuclidic purity, and processing the eluate with reagent kits to prepare labeled			sing		(3)	(1) 250	
(2) Dr Yong Bradley						TOTAL: 1500	
(3) Brooke Army 12-01368-01	/ Medical Center						
	5b.	SUPERV	ISED CL	NICAL CASE EXPER	IENCE		
Radionuclide Type of Use No. of Ca Involvin Person Participa		ring nai	Name of Supervising Individual	Location and Corresponding Materials License Number	Dates and Clock Hours of Experience		
-131	Oral administration	22 (7)		(2)	(3)	(1) 15	
Sm-153	Parenteral administration	4		(2)	(3)	(1) 3	
-90	Parenteral administration	3		(2)	(3)	(1) 2.5	
c-99m	Parenteral administration	5		(2)	(3)	(1) (4)	
18-FDG	Parenteral administration	20		(2)	(3)	(1) 15	
f) minimum of	40 hours of To-99m	experien	СӨ				
r) mln 3 >33	mCl						
			1				

NRC FORM 313A (10-2002) TRAINING AND EXP	PERIENCE AND P	PRECEPTOR STA	u.s. Nuclear Regu TEMENT (continued)	LATORY COMMISSION
6. FORMAL TRAINING	G (applies to Med	ícal Physicists an	d Therapy Physicians)	
Degree, Area of Study Loca or Corres Residency Program Ma	Program end tion with sponding terials e Number	Dates	Name of Orga Approved the (e.g., Accredite for Graduate Me and the Applica (e.g., 10 CF	ation Council dical Education) able Regulation
7. RADIATION SAFETY	OFFICER - ONE	-YEAR FULL-TIM	E WORK EXPERIENCE	
YES Completed 1-year of full-tme rad	lation safety experi	lence (in areas Ider	ntified in Item 5a) under su	pervison
N/A of	the	RSO for License	No	,
8, MEDICAL PHYSICIST			**	
YES Completed 1-year of full-time training N/A  YES Completed 1-year of full-time wo	ining in therapeutic who	radiological physic meets requirement	s under the supervision of is for Authorized Medical I	•
N/A modality(les) under the supervision	on of		who	meets
requirements of Authorized Medi	cal Physicists for		mod	dallty(ies).
9. SUPERVISING IN	DIVIDUAL IDEN	TIFICATION AND	QUALIFICATIONS	
The training and experience indicated above we needed to meet requirements in 10 CFR 35, p	as obtained under rovide the following	the supervision of ( g information for ea	if more than one supervis	sing individual is
A. Name of Supervisor	B. Supervisor is:			
Dr Yong Bradley	Authoriz	Authorized User Authorized Medical Physicist		
	Radiatio	n Safety Officer	Authorized Nuclear	Pharmacist
C. Supervisor meets requirements of Part	t 35, Section(s)	35.190, 35.290, and	35.390	
for medical uses In Part 35, Section(s)	35.100, 35.200	), 35.300		
D. Address			E. Materials License N	
Brooke Army Medical Center 3851 Roger Brooke Dr. Ft Sam Houston, TX 78234			42-01368-01	umper
			*	

NRC FORM 313A (10-2002)	U.S. NUCLEAR REGULATORY COMMIS	SION			
No. of the second secon	TRAINING AND EXPERIENCE AND PRECEPTOR STATEMENT (continued)				
PA	RT II PRECEPTOR STATEMENT				
experience, obtain a separate preceptor requirements in 10 CFR 35.590.  Item 10 must be completed for Nuclear	dividual's preceptor. If more than one preceptor is necessary to document or statement from each. This part is not required to meet the training.  Pharmacists meeting the requirements of 10 CFR Part 35, Subpart J. as 11a, 11b, or the certifying statements for other individuals meeting the art J.				
	n 1has satisfactorially completed the training requirements in betent to independently operate a nuclear pharmacy.				
YES 11a. The individual named in Item  N/A and Paragraph(s) 35.190c	n 1 has satisfactorily completed the requirements in Part 35, Section(s)				
YES 11b. The individual named in Item  N/A user	for 35.100, 35.200, 35.300 uses (or units).				
12. PREGE	PTOR APPROVAL AND CERTIFICATION				
certify the approval of item 10 and certify	y I am an Authorized Nuclear Pharmacist;				
	or				
I certify the approval of items 11a and 11i	b, and certify I am an Authorized Nuclear Pharmacist;				
	or				
or equivalent Agreement State requireme					
for the following uses (or units) of byprodu	ICK material. 35.100, 35.200, and 35.300	1			
A. Address Brooke Army Medical Center 3851 Roger Brooke Dr. Ft Sam Houston, TX 78234	B. Materiale License Number 42-01368-01				
NAME OF PRECEPTOR (print clearly)  Dr Yong Bradley	D. SIGNATURE PRECEPTOR E. DATE 07/17/2003	_			



### The American Board of Nuclear Medicine

A Member Board of the American Board of Medical Specialties

Chairman Ene M. Robren, M.D., Ph.D. Houston, Texas

Vice- Chairman Laus P. O'Malley, M.D. Burnoghan, Alabam

Secretary Treasurer Louise E. Thomson, MBChB Los Angles, Chilorna

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Member-At-Large George M. Segall, M.D. Palo Alto, f. A

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Executive Director Heaty D. Royal, M.D. St. Louis, Mission

Associate Executive Director J. Anthony Parker, M.D., Ph D. Boston, Massichus IIS

Administrator Marc J. Wans, MBA St. Louis, Missouri November 15, 2013

Dear Credentials Committee:

Reed K. Smith, M.D. passed the ABNM Maintenance of Certification (MOC) examination given during the first week of October 2013. This comprehensive examination covers the following areas:

- General Nuclear Medicine
- · Cardiovascular Nuclear Medicine including Stress Testing
- Diagnostic CT in association with PET/CT or SPECT/CT
- PET/CT
- SPECT/CT
- · Molecular Imaging
- · Therapy with radioactive sources

Dr. Smith is also fully participating in the ABNM's MOC program.

Sincerely,

A. Anthony Parker, M.D., Ph.D. Associate Executive Director

JAP/mjw/mrw

Incorporated 1971

### Certifies that

# Reed K. Smith, M.D.

has fully participated in the ABNM's Maintenance of Certification program lis qualified during the period of 10/11/2013 through 12/31/2023 to practice as Specialist in all aspects of Clinical and Laboratory

## Nuclear Medicine

Maintenance of this certificate requires full participation in the ABNM's Maintenance of Certification program.

Eric M. Rohren, M.D., Ph.D.

Chairman

07347

Louise E. Thomson, MB.ChB., FRACP Secretary-Treasurer



PAGE \_\_1\_ OF \_\_4\_ PAGES Amendment No. 23

#### 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.

Licensee In accordance with letter dated March 16, 2009 1. Department of the Army 3. License number 05-26854-01 is amended in Evans Army Community Hospital its entirety to read as follows: 2. 1650 Cochrane Circle Expiration date August 31, 2013 Docket No. 030-29534 Fort Carson, Colorado 80913-4604 Reference Byproduct, source, and/or mical and/or physical form Maximum amount that licensee special nuclear material may possess at any one time under this license A. Any byproduct As needed material permitted by 10 CFR 35.100 B. Any byproduct As needed material permitted by 10 CFR 35.200 C. Any byproduct C. 500 millicuries material permitted by 10 CFR 35.300

### 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 use permitted by 10 CFR 35.300.

### CONDITIONS

10. Licensed material may be used or stored only at the licensee's facilities located at 1650 Cochrane Circle, Fort Carson, Colorado.

		PAGES

- 11. The Radiation Safety Officer for this license is 1LT Jaime A. Purcell.
- 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 the material and medical uses indicated:

**Authorized Users** 

Cyrus W. Partington, M.D.

Frederick A. Steckel, M.B.

Reed K. Smith, M.D.

Material and Use

35.100.35.200: 35.300

35.100: 35.200

35.100; 35.200; 35.360

13. For sealed sources not associated with 10 CFR Part 35 use, the following conditions apply:

EAR

- A. Sealed sources shall be tested for leakage and/or contamination at intervals not to exceed the intervals specified in the certificate of registration issued by the U.S. Nuclear Regulatory Commission under 10 CFR \$2.219 or under equivalent regulations of an Agreement State.
- B. Notwithstanding Paragraph A of this pholition, sealed sources designed to primarily emit alpha particles shall be tested to leakage and/or contamination at intervals no to exceed 3 months.
- C. In the absence of a certification attransferor indicating at a leakingst has been made within the intervals specified in the case, are specified by the U.S. Nuclear Regulatory Commission under 19 CFR 2.240 or under squivalent regulations of an Agreement State, prior to the transfer, a sealed source received from abother person shall not be put into use until tested and the test results received.
- D. Sealed sources need not be tested if they contain only hydrogen-3; or they contain only a radioactive gas; or the half-life of the isotope is 30 days or less; or they contain not more than 100 microcuries of beta- and/or gamma-emitting material or not more than 10 microcuries of alpha-emitting material.
- E. Sealed sources need not be tested if they are in storage and are not being used; however, when they are removed from storage for use or transferred to another person and have not been tested within the required leak test interval, they shall be tested before use or transfer. No sealed source shall be stored for a period of more than 10 years without being tested for leakage and/or contamination.

- F. The leak test shall be capable of detecting the presence of 0.005 microcurie (185 becquerels) of radioactive material on the test sample. If the test reveals the presence of 0.005 microcurie (185 becquerels) or more of removable contamination, a report shall be filed with the U.S. Nuclear Regulatory Commission in accordance with 10 CFR 30.50(c)(2), and the source shall be removed immediately from service and decontaminated, repaired, or disposed of in accordance with Commission regulations. The report shall be filed within 5 days of the date the leak test result is known with the U.S. Nuclear Regulatory Commission, Region IV, 612 East Lamar Boulevard, Suite 400, Arlington, Texas 76011-4125, ATTN: Director, Division of Nuclear Materials Safety. The report shall specify the source involved the least results, and corrective action taken.
- G. Tests for leakage and/or contamination, including leak test sample collection and analysis, shall be performed by the licensee or by other persons specifically licensed by the U.S. Nuclear Regulatory Commission or an Accelerate to perform such services.
- H. Records of leak to results shall be kept in units of microcuries and shall be maintained for 3 years.
- 14. The licensee shall conduct a physical inventory every 6 months, of at other intervals approved by the U.S. Nuclear Regulatory Commission to account for all sources and/or devices received and possessed under the license.
- 15. Sealed sources or detector cells containing licensed material shall not be opened or sources removed from source holders by the licensee
- 16. The licensee is authorized to transport licensed material in accordance with the provisions of 10 CFR Part 71, "Packaging and Transport and adjoactive Vaterial."

17. 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. Additionally, this license condition does not limit the licensee's ability to make changes to the radiation protection 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 22. B. Letter dated August 21, 2003

C. Application dated August 31, 2006 (ML062680336)



FOR THE U.S. NUCLEAR REGULATORY COMMISSION

Date June 17, 2009

By Jacqueline D. Cook, Senior Health Physicist

Nuclear Materials Safety Branch B

Region IV

Arlington, Texas 76011-4125

BETWEEN:  Accounts Receivable/Payable and Regional Licensing Branches	[FOR ARPB USE ] INFORMATION FROM WBL  Program Code: 02120 Status Code: Pending Amendment Fee Category: 7C Exp. Date: Fee Comments: ARMY 170.11(A)(5) Decom Fin Assur Reqd: N
License Fee Worksheet - License Fe	e Transmittal
A. REGION	
1. APPLICATION ATTACHED Applicant/Licensee: ARMY, DEPARTMENT OF THE Received Date: 02/04/2014 Docket Number: 3029534 Mail Control Number: 582966 License Number: 05-26854-01 Action Type: Amendment	
2. FEE ATTACHED  Amount:  Check No.:	
3. COMMENTS	
Assess Assess	n Murnalan
Signed: Colle	n // furnanun
Date:	-14
B. LICENSE FEE MANAGEMENT BRANCH (Check when r	nilestone 03 is entered / / )
1. Fee Category and Amount:	
Correct Fee Paid. Application may be processed for:     Amendment:	
Renewal:	
License:	
3. OTHER	

Signed:

Date:



A STATE OF THE STA	DATE					
Extra of the second sec	02/04/2014					
NAME AND ADDRESS OF APPLICANT AND/OR LICENSEE	LICENSE NUMBER					
	05-26854-01					
Department of the Army	MAIL CONTROL NUMBER					
Evans Army Community Hospital 1650 Cochrane Circle	582966					
Fort Carson, CO 80913-4604	LICENSING AND/OR TECHNICAL REVIEWER					
	cmurnahan Ouc					
This is to acknowledge the receipt of your:						
✓ LETTER and/or ✓ APPLIC	DATED: 02/03/2014					
The initial processing, which included an admir	nistrative review, has been performed.					
✓ AMENDMENT  TERMINATION	✓ AMENDMENT    TERMINATION    NEW LICENSE    RENEWAL					
✓ There were no administrative omissions iden	There were no administrative omissions identified during our initial review.					
	This is to acknowledge receipt of your application for renewal of the material(s) license identified above. Your application is deemed timely filed, and accordingly, the license will not expire until final action has been taken by this office.					
	Your application for a new NRC license did not include your taxpayer identification number. Please fill out NRC Form 531, located at the following link:					
http://www.nrc.gov/reading	-rm/doc-collections/forms/nrc531.pdf					
Send the completed NRC Form 531, by facsi	Send the completed NRC Form 531, by facsimile, to the following number: (301) 415-5387					
	A copy of your action has been emailed to our License Fee and Accounts Receivable Branch, in our Headquarters office in Rockville, MD. You will be contacted separately if there is a fee issue involved.					
been forwarded to a technical reviewer. Plea normally completed within 180 days for a rene	er to this control number. Your application has use note that the technical review, which is ewal application (90 days for all other requests), additional information. If you have any questions					

Region IV U. S. Nuclear Regulatory Commission DNMS/NMSB - B 1600 E. Lamar Blvd. Arlington, TX 76011-4511 (817) 200-1103 or (817) 200-1140

NRC FORM 532 (1-2012)

emailed to lie