

Boone Hospital Center

1600 East Broadway
Columbia, Missouri 65201
Phone: 573-815-8000

January 4, 2012

US Nuclear Regulatory Commission
Region III
Materials Licensing Section
2443 Warrenville Road, Suite 210
Lisle, IL 60532-4352

License Number: 24-01565-01

RE: Phone Conversation Yesterday with Reviewer
Reference Control # 576187

Dear NRC Reviewer,

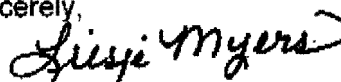
I am faxing the additional information you requested to approve Dr. Biedermann as an Authorized User of 35.300 materials on our License. I contacted Debby Steva, the assistant RSO at the University of Virginia. She stated that their institution has a broad scope license; therefore AU's are not approved by the State or named on the license. Instead, the Radiation Safety Committee approves applicants to become Authorized Users of radioactive materials.

She faxed me several documents regarding qualifications/authorizations for the individuals attesting to Dr. Biedermann's experience and training in administering 35.300 materials while at the University of Virginia. Instead of selecting the documents I believe to be pertinent, I have decided to fax all of them to you for review. I know you don't need any "extra" paperwork, but I didn't want to take a chance and omit any necessary information.

Should this information not suffice, please contact me at - and I will obtain additional documentation.

Thank you for your time in reviewing this amendment request.

Sincerely,



Liesje Myers
Radiation Safety Officer
Boone Hospital Center
(573) 815-3729

UNIVERSITY
of VIRGINIA

ENVIRONMENTAL HEALTH and SAFETY
Special Materials Handling Facility

July 16, 2008

Gregory B. Biedermann, M.D.
Radiation Oncology
Box 800136

Dear Dr. Biedermann:

As required by the Materials License issued to the University of Virginia by the Nuclear Regulatory Commission, the use of licensed material in or on humans shall be by a physician, dentist or podiatrist as defined in 10 CFR 35.2. Physicians designated to use licensed material in or on humans shall meet the training criteria established in 10 CFR Part 35, and shall be designated by the licensee's Radiation Safety Committee (RSC). The Radiation Safety Committee has approved your application to become an Authorized User of certain radioactive materials listed on the University's NRC licenses. Authorization No. MAU011 has been assigned to you for use of the following:

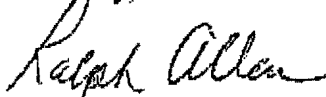
35.400 Manual brachytherapy sources and 35.600 Remote afterloader unit(s)

As a designated authorized user, the uses named above must be performed by you, or where permitted, under your supervision, in accordance with the University's specific licenses issued by the Nuclear Regulatory Commission and the State of Virginia. All use must be in accordance with the regulations of Title 10, Part 35 of the Federal Code of Regulations (10 CFR Part 35). Any individuals using this material under your supervision must be instructed in the licensee's written radiation protection procedures, written directive procedures, regulations of Part 35 and license conditions with respect to the use of the licensed material and you must require supervised individuals to follow these instructions.

As a reminder, the responsibility for security of these materials is shared by all designated users. All radioactive material must be secured against removal by unauthorized individuals when not in use or unattended. All purchases of radioactive material must be made through EHS in accordance with the license.

In order to maintain your designation as an authorized user, you are required each year to attend radiation safety retraining conducted by EHS. If you have any questions regarding this authorization, please contact the Office of Environmental Health & Safety at 2-4911.

Sincerely,



Ralph O. Allen

Chair, Radiation Safety Committee

UNIVERSITY
of VIRGINIA



ENVIRONMENTAL HEALTH and SAFETY
Special Materials Handling Facility

MEMO

Date:

To: Radiation Safety Committee

From: Ralph Allen, Chair, Radiation Safety Committee

In accordance with Item 11B. of our license, "Individuals designated to work as authorized users, authorized nuclear pharmacists or authorized medical physicists, as defined in 10 CFR 35.2, shall meet the training, experience, and recentness of training criteria established in 10 CFR Part 35, and shall be designated, in writing, by the licensee's Radiation Safety Committee.

As Chair of the Radiation Safety Committee and with the approval of its members, the following individual has been designated as an Authorized User in accordance with the University of Virginia's Broad Byproduct License No.45-00034-26.

Name: Gregory B. Biedermann, MD

Submitted completed NRC Form 313A (AUS)
Meets the requirements in 35.490 B(1), (2) and (3)
Meets the requirements in 35.690 B(1) & (2) and (c)
Meets recentness of training requirement in 35.59

Dr. Ralph O. Allen, Chairman, University of Virginia Radiation Safety Committee

7/17/8

Date

The training and certification of the above mentioned individual(s) has been documented and shown to meet the requirements specified in 10 CFR 35.

UNIVERSITY
of **VIRGINIA**
 **ENVIRONMENTAL HEALTH and SAFETY**
Special Materials Handling Facility

January 21, 2005

Tyvin A. Rich MD
Department of Radiation Oncology
Box 800383

Dear Dr. Rich:

As required by the Materials License issued to the University of Virginia by the Nuclear Regulatory Commission, the use of licensed material in or on humans shall be by a physician, dentist or podiatrist as defined in 10 CFR 35.2. Physicians designated to use licensed material in or on humans shall meet the training criteria established in 10 CFR Part 35, and shall be designated by the licensee's Radiation Safety Committee (RSC). The Radiation Safety Committee has approved your application to become an Authorized User of certain radioactive materials listed on the University's NRC licenses. Authorization No. MAU004 has been assigned to you for use of the following:

Manual Brachytherapy Sources, Photon Emitting Remote Afterloader Units, Teletherapy Units and Gamma Stereotaxic Radiosurgery Units specifically listed on the University of Virginia's Materials Licenses.

As a designated authorized user, the uses named above must be performed by you, or where permitted, under your supervision, in accordance with the University's specific licenses issued by the Nuclear Regulatory Commission and the State of Virginia. All use must be in accordance with the regulations of Title 10, Part 35 of the Federal Code of Regulations (10 CFR Part 35). Any individuals using this material under your supervision must be instructed in the licensee's written radiation protection procedures, written directive procedures, regulations of Part 35 and license conditions with respect to the use of the licensed material and you must require supervised individuals to follow these instructions.

As a reminder, the responsibility for security of these materials is shared by all designated users. All radioactive material must be secured against removal by unauthorized individuals when not in use or unattended. All purchases of radioactive material must be made through OEHS in accordance with the license.

In order to maintain your designation as an authorized user, you are required each year to attend radiation safety retraining conducted by OEHS. If you have any questions regarding this authorization, please contact the Office of Environmental Health & Safety at 2-4911.

Sincerely,


Ralph O. Allen

Chair, Radiation Safety Committee

The American Board of Radiology

Organized through the cooperation of the
American College of Radiology, the American Roentgen Ray Society,
the American Radium Society, the Radiological Society of North America,
the Section on Radiology of the American Medical Association
and the American Society of Therapeutic Radiologists
Thereby certifies that

Oyvin Andrew Rich, M.D.

Has pursued an accepted course of graduate study
and clinical work, has met certain standards and qualifications and
has passed the examinations conducted under the authority of

The American Board of Radiology

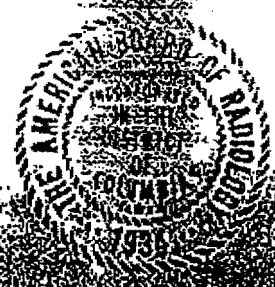
On this ninth day of June, 1978

Thereby demonstrating to the satisfaction of the Board
that he is qualified to practice the specialty of

Therapeutic Radiology

James D. Nelson

Allen Hood



M.D. And.


EXHIBIT 3
SUPPLEMENT B

SUPPLEMENT		U. S. NUCLEAR REGULATORY COMMISSION	
PRECEPTOR STATEMENT			
Supplement B must be completed by the applicant physician's preceptor. If more than one preceptor is necessary to document experience, obtain a separate statement from each.			
1. PROPOSED PHYSICIAN USER'S NAME AND ADDRESS FULL NAME Tyvin Andrew Rich, M.D. <hr/> STREET ADDRESS UVA Health Sciences Ctr. - Box 375 Therapeutic Radiation & Oncology CITY STATE ZIP CODE Charlottesville, VA 22908		KEY TO COLUMN C PERSONAL PARTICIPATION SHOULD CONSIST OF: 1-Supervised examination of patients to determine the suitability for radiotope diagnosis and/or treatment and recommendation for prescribed dosage. 2-Collaboration in dose calibration and actual administration of dose to the patient including calculation of the radiation dose, related measurements and plotting of data. 3-Adequate period of training to enable physician to manage radioactive patients and follow patients through diagnosis and/or course of treatment.	
2. CLINICAL TRAINING AND EXPERIENCE OF ABOVE NAMED PHYSICIAN			
ISOTOPE A	CONDITIONS DIAGNOSED OR TREATED B	NUMBER OF CASES INVOLVING PERSONAL PARTICIPATION C	COMMENTS (Additional information or comments may be submitted in duplicate on separate sheets.) D
	Thyroid scan		
	Thyroid uptake		
	Lung perfusion scan		
	Xenon ventilation study		
	Aerosol ventilation scan		
	Renal flow scan		
	Brain scan		
	Liver/spleen scan		
	Bone scan		
	Gastroesophageal study		
	LeVeen shunt study		
	Cystogram		
	Dacryocystogram		
	Cardiac perfusion scan.		
	Cardiac stress ventriculogram		
Cardiac rest ventriculogram			
Gallium scan			

EXHIBIT 3 (Continued)

PROPOSED PHYSICIAN USER			
PRECEPTOR STATEMENT (Continued)			
2. CLINICAL TRAINING AND EXPERIENCE OF ABOVE NAMED PHYSICIAN (Continued)			
ISOTOPE	CONDITIONS DIAGNOSED OR TREATED	NUMBER OF CASES INVOLVING PERSONAL PARTICIPATION	COMMENTS <i>(Additional information or comments may be submitted in duplicate on separate sheets.)</i>
A	B	C	D
P-32 <i>(Soluble)</i>	TREATMENT OF POLYCYTHEMIA VERA, LEUKEMIA, AND BONE METASTASES	10	
P-32 <i>(Colloid)</i>	INTRACAVITARY TREATMENT	10	
I-131	TREATMENT OF THYROID CARCINOMA	20	
	TREATMENT OF HYPERTHYROIDISM		
Au-198	INTRACAVITARY TREATMENT	25	
Co-60 or Cs-137	INTERSTITIAL TREATMENT		
	INTRACAVITARY TREATMENT	40	
I-125 or Ir-192 or Co-60 or Cs-137	INTERSTITIAL TREATMENT	75	
	TELE THERAPY TREATMENT	750	
Sr-90	TREATMENT OF EYE DISEASE	20	
	RADIOPHARMACEUTICAL PREPARATION		
Mn-59/ Tc-99m	GENERATOR	0	
Er-113/ In-113m	GENERATOR	0	
Tc-99m	REAGENT KITS	0	
Other			

3. DATES AND TOTAL NUMBER OF HOURS RECEIVED IN CLINICAL RADIOISOTOPE TRAINING		
LOCATION	DATES	CLOCK HOURS OF EXPERIENCE
Massachusetts Gen. Hospital, Boston, MA. (residency)	1975-1979	More than 200 hrs.

4. THE TRAINING AND EXPERIENCE INDICATED ABOVE WAS OBTAINED UNDER THE SUPERVISION OF:	6. NAME OF SUPERVISOR Herman Suit, M.D.	6. PRECEPTOR'S SIGNATURE 
	7. NAME OF INSTITUTION Mass. General Hospital	
	8. MAILING ADDRESS	8. DATE
	9. CITY Boston, MA 02114	
	10. MATERIAL LICENSE NUMBER(S)	

The American Board of Radiology

Organized through the cooperation of the
American College of Radiology, the American Roentgen-Ray Society,
the American Radium Society, the Radiological Society of North America,
the Section on Radiology of the American Medical Association
and the American Society of Therapeutic Radiologists
Hereby certifies that

Tywin Andrew Rich, M.D.

Has pursued an accepted course of graduate study
and clinical work, has met certain standards and qualifications and
has passed the examinations conducted under the authority of
The American Board of Radiology

On this ninth day of June, 1978

Thereby demonstrating to the satisfaction of the Board
that he is qualified to practice the specialty of

Therapeutic Radiology



William W. Nelson

Allen Hood





UNIVERSITY OF VIRGINIA
ENVIRONMENTAL HEALTH AND SAFETY

SPECIAL MATERIALS HANDLING FACILITY
EDGEMONT ROAD

P.O. BOX 9425
CHARLOTTESVILLE, VA 22903
TELEPHONE (804) 982-4911

October 6, 1995

Tyvin A. Rich, M.D.
Chairman, Department of Radiation Oncology
Box 383, HSC

QW under Kelly

Dear Dr. Rich:

The Radiation Safety Committee has approved your application to become an Authorized User of radioactive material. Authorization No. 31-90 has been assigned to you for the following materials:

Au-198 ≤ 600 mCi; Co-60 ≤ 300 mCi; Cs-137_{ss} ≤ 2200 mCi; I-125 ≤ 300 mCi; I-131 ≤ 100 mCi;
Ir-192 seeds ≤ 300 mCi; P-32 ≤ 50 mCi; Ra-226_{ss} ≤ 1 gm; Rn-222 ≤ 200 mCi; Sr/Y-90_{ss} ≤ 155 mCi;
Ta-182 ≤ 200 mCi; Y-90 ≤ 100 mCi; Sr-89 ≤ 20 mCi; H-3 ≤ 20 mCi; and Ba-133_{ss} ≤ .01 mCi.

You are requested to order and keep on hand the smallest quantity of each isotope which is consistent with reasonable purchasing policy and, in any event, not to exceed the maximum possession limit for your authorization. Please use your authorization number when corresponding with the Radiation Safety Office. All purchases of radioisotopes must be made through the Office of Environmental Health and Safety. Purchase requisitions or other requests for the procurement of radioactive materials, from either commercial or non-commercial sources, should be sent directly to OEHS for processing.

The Nuclear Regulatory Commission requires the University of Virginia to maintain strict inventory control of all radioisotopes in its possession. Each Authorized User is required to maintain an up-to-date inventory of his/her lab holdings and to provide that information to OEHS upon request.

This authorization also designates you as the responsible party, which means that the radioisotope(s) must be used by you or under your direction, and that you accept the responsibility for their use. Your application and the rules and regulations for use and possession of radioactive material promulgated by the Nuclear Regulatory Commission, the Commonwealth of Virginia, and the University of Virginia *Radiation Safety Guide* become part of your authorization.

Sincerely,

Ralph O. Allen
Ralph O. Allen

Chair, Radiation Safety Committee

P.S. Welcome - If the EHS Office or Committee can be of help, let me know!



UNIVERSITY of VIRGINIA

OFFICE OF THE VICE PRESIDENT FOR RESEARCH
ENVIRONMENTAL HEALTH & SAFETY

January 4, 2012

Liesje Myers
Radiation Safety Officer
Boone Hospital Center
Columbia, Missouri

Dear Ms. Myers:

The University of Virginia's Broad Byproduct License, number 540-248-1, requires that Authorized Users for this license meet the training and experience criteria specified in the Commonwealth of Virginia's Radiation Protection Regulations (incorporating 10 CFR Part 35). Because UVA possesses a Broad Scope License, Authorized Users are not approved by the State or named on the license but are approved by the University's Radiation Safety Committee.

This is to verify that Patrice K. Rehm, M.D. was approved by the University of Virginia's Radiation Safety Committee on July 24, 2000 as an Authorized User. She is authorized for radioactive material uses under 12VAC5-481-1900 (10 CFR 35.100), 12VAC5-481-1920 (10 CFR 35.200), and 12VAC5-481-1950 (10 CFR 35.300) and performs under the Materials License noted above.

Should you have any questions or need any additional information, please contact Deborah Steva in my office at (434) 982-4917.

Sincerely,

A handwritten signature in cursive script that reads "Ralph O. Allen".

Ralph O. Allen, Radiation Safety Officer
Director, Environmental Health & Safety Office



UNIVERSITY OF VIRGINIA
ENVIRONMENTAL HEALTH AND SAFETY

SPECIAL MATERIALS HANDLING FACILITY
EDGEMONT ROAD
<http://keats.admin.virginia.edu>

P.O. BOX 400922
CHARLOTTESVILLE, VA 22904-4322
TELEPHONE (804) 982-4911

July 24, 2000

Patrice K. Rehm
Department of Radiology
Box 800170

Dear Dr. Rehm:

The Radiation Safety Committee has approved your application to become an Authorized User of radioactive material. Authorization No. 0068 has been assigned to you for the following materials:

Transfer authorized user ship from Jayashree Parokh to you as per the attached.

You are requested to order and keep on hand the smallest quantity of each isotope which is consistent with reasonable purchasing policy and, in any event, not to exceed the maximum possession limit for your authorization. Please use your authorization number when corresponding with the Radiation Safety Office. All purchases of radioisotopes must be made through the Office of Environmental Health and Safety. Purchase requisitions or other requests for the procurement of radioactive materials, from either commercial or non-commercial sources, should be sent directly to OEHS for processing.

The Nuclear Regulatory Commission requires the University of Virginia to maintain strict inventory control of all radioisotopes in its possession. Each Authorized User is required to maintain a current inventory of his/her lab holdings and to provide that information to OEHS upon request.

This authorization also designates you as the responsible party, which means that the radioisotope(s) must be used by you or under your direction, and that you accept the responsibility for their use. In order to maintain approval to use radioactive materials, you are required each year to attend radiation safety retraining conducted by OEHS. Your application and the rules and regulations for use and possession of radioactive material promulgated by the Nuclear Regulatory Commission, the Commonwealth of Virginia, and the University of Virginia *Radiation Safety Guide* become part of your authorization.

Sincerely,

Ralph O. Allen

Chair, Radiation Safety Committee

Attachment

UNIVERSITY OF VIRGINIA PERMIT
FOR USE OF IONIZING RADIATION

P E R M I T # 0068

Expiration Date: January 1, 2050

Patrica K. Rehm, MD is authorized to receive, possess, or use
the following licensed or registered source of radiation:

<u>1. Radionuclide</u>	<u>2. Form of Material</u>	<u>3. Maximum Activity</u>	<u>Unit</u>
Am-241		12.50000	mCi
Au-195		1.00000	mCi
Au-198		20.00000	mCi
Ba-133		0.90000	mCi
Ba-133	SEALED IPI.	48.00000	mCi
C-14		10.00000	mCi
Ce-141		2.00000	mCi
Co-57		50.00000	mCi
Co-58		0.02000	mCi
Cr-51		3.00000	mCi
Cs-137		0.10000	mCi
Cs-137		1.00000	mCi
Er-171		100.00000	mCi
Eu-152	ANY	0.01000	mCi
F-18	ANY	175.00000	mCi
Fe-59		0.50000	mCi
Ga-67		50.00000	mCi
Gd-153		4,500.00000	mCi
Ge-68	SEALED SOU	3.00000	mCi
H-3		20.00000	mCi
Hg-197		10.00000	mCi
I-123		40.00000	mCi
I-125		10.00000	mCi
I-129		0.00100	mCi
I-131		550.00000	mCi
In-111		40.00000	mCi
K-42		2.00000	mCi
K-43		5.00000	mCi
Lu-177		10.00000	mCi
Mo-99		5,000.00000	mCi
Na-22		0.15000	mCi
Nb-95		2.00000	mCi
P-32		50.00000	mCi
Pt-195m		10.00000	mCi
Pt-197		10.00000	mCi
Ra-226		0.01600	mCi
Ru-103		10.00000	mCi
Sc-46		1.50000	mCi
Se-75		1.00000	mCi
Sm-153		100.00000	mCi
Sn-113		1.00000	mCi
Sr-85		1.50000	mCi
Sr-89		20.00000	mCi
Sr-90		300.00000	mCi
Tc-99m	SEALED generator	6,000.00000	mCi

UNIVERSITY OF VIRGINIA PERMIT
FOR USE OF IONIZING RADIATION

P E R M I T # 0068

Expiration Date: January 1, 2050

Tl-201		75.00000	mCi
Xe-127		100.00000	mCi
Xe-133		1,000.00000	mCi
Y-90	ANY	300.00000	mCi
Yb-167		10.00000	mCi
Yb-169		10.00000	mCi
Yb-175		10.00000	mCi

4. Location(s)

HOSPITAL EAST	8191-96
HOSPITAL EAST	8922
HOSPITAL EAST	8190
HOSPITAL EAST	8189
HOSPITAL EAST	2201
HOSPITAL EAST	2209
HOSPITAL EAST	2321
HOSPITAL EAST	2323
HOSPITAL EAST	2346
HOSPITAL EAST	2345B
HOSPITAL EAST	8905
HOSPITAL EAST	8909
HOSPITAL EAST	8911
HOSPITAL EAST	LAB #1
HOSPITAL EAST	LAB #2
HOSPITAL EAST	LAB #3
HOSPITAL EAST	2332
HOSPITAL EAST	2322
HOSPITAL EAST	2329
HOSPITAL EAST	2324
MULTISTORY/OLD MEDICAL SCHOOL	4207
HOSPITAL EAST	6144
HOSPITAL EAST	6145
HOSPITAL EAST	6146
HOSPITAL EAST	6147
HOSPITAL EAST	6196
HOSPITAL EAST	6197
HOSPITAL EAST	1516
HOSPITAL EAST	1032

UNIVERSITY OF VIRGINIA PERMIT
FOR USE OF IONIZING RADIATION

P E R M I T # 0068

Expiration Date: January 1, 2050

Chairman RCC _____

Date _____

Boone Hospital Center

BJC HealthCare[®]

1600 East Broadway
Columbia, Missouri 65201
(573) 815-8000

Attention: The information sent by this facsimile transmission is confidential information. If you are not the intended recipient and have received the information in error, please notify the sender immediately and arrange for the return of the documents. Thank you for your cooperation.

DATE and TIME: Jan 4, 2012

TO: NRC Reviewer

DEPT: _____

PHONE: _____

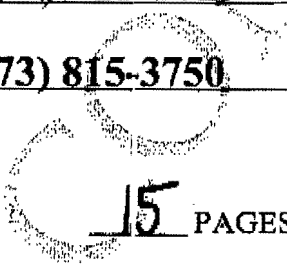
FAX: (630) 515-1078

FROM: Liesje Myers

DEPT: Boone Hospital Radiation Safety Officer

PHONE: (573) 815-3729

FAX: (573) 815-3750



15 PAGES TRANSMITTED INCLUDING THIS PAGE

COMMENTS:

Reference Control # 576187

