

RMS OF NEPA, P.C.

**RMS
RADIATION MEDICINE SPECIALISTS
OF NORTHEAST PENNSYLVANIA, P.C.**

NORMAN SCHULMAN, M.D., F.A.C.R.O.
Medical Director

190 Welles Street
Forty Fort, Pennsylvania 18704
(570) 714-8686
FAX (570) 714-8666
E-mail: NSCHULMD@aol.com

Nov. 07, 2005

N7581

Penny Lanzisera
Nuclear Regulatory Commission
475 Allendale Road
King of Prussia, PA 19406-1415

RE: Amendment Request
License # 37-30549-01

03035297

Dear Penny Lanzisera:

I would like to amend our license #37-30⁵49-01 to add Yibing Hu, MS as an Authorized Medical Physicist for Ir-192 in a High Dose Rate Remote Afterloader Unit. Mr. Hu has two years of full-time training in medical physics and work experience with Ir-192 HDR remoter afterloader under the supervision of Tianyou Xue, PhD who is an Authorized Medical Physicist. Mr. Yibing Hu holds a master degree in Electrical Engineering and has passed Part I of the American Board of Radiology (ABR) therapeutic physics examination.

Would you be so kind as to add this as soon as possible to facilitate the treatment of patients.

Thank you for your cooperation.

Very truly yours,

Norman Schulman, M.D.

205 NOV 11 11:06

RECEIVED

137953

NMCC/RCN MATERIALS-002

**MEDICAL USE TRAINING AND EXPERIENCE
AND PRECEPTOR ATTESTATION**

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

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 regulation (10 CFR Part 35)

1. Name of Individual, Proposed Authorization (e.g., Radiation Safety Officer), and Applicable Training Requirements (e.g., 10 CFR 35.50)

Yibing Hu, Authorized Medical Physicist, 10 CFR 35.51 (a) (1) (2) (b) (c)

2. For Physicians, Podiatrists, Dentists, Pharmacists -- State or Territory Where Licensed

3. CERTIFICATION

- a. Provide a copy of the board certification. *(Stop here if applying under 10 CFR Part 35, Subpart J or 35.590(a); continue if applying under other subparts.)*
 - b. Provide documentation in appropriate items 4 through 10 of training or clinical case work required by 35.50(e); 35.51(c); 35.290(c)(1)(ii)(G) for AU seeking 35.200 authorization; 35.390(b)(1)(ii)(G); 35.396(d)(1) and 35.396(d)(2); 35.590(c); or 35.690(c).
 - c. Provide completed Part II Preceptor Attestation, Items 11a through 11d.
- Stop here after completing items 3a, 3b, and 3c when using board certification to meet 10 CFR Part 35 training and experience requirements.

4. INDIVIDUALS IDENTIFIED ON A LICENSE OR PERMIT AS RADIATION SAFETY OFFICERS (RSO), AUTHORIZED USERS (AU), AUTHORIZED MEDICAL PHYSICISTS (AMP), OR AUTHORIZED NUCLEAR PHARMACISTS (ANP) SEEKING ADDITIONAL AUTHORIZATIONS

- a. Provide a copy of the license or broadscope permit listing the current authorization **and** (b) or (c)
- b. Complete items 6c (and 10 when training is provided by an RSO, AMP, ANP, or AU) and preceptor items 11b through 11d to meet requirements for: RSO in 35.50(c)(2) or 35.50(e); or AU in 35.290(c)(1)(ii)(G) or 35.390(b)(1)(ii)(G) or 35.590(c) or 35.690(c); or AMP under 35.51(c).
- c. Complete items 5, 6a, 6b, 10, and Preceptor items 11a through 11d to meet AU requirements in 35.396(a).

5. DIDACTIC OR CLASSROOM AND LABORATORY TRAINING (optional for Medical Physicists)

Description of Training	Location	Clock Hours	Dates of Training
Radiation Physics and Instrumentation			
Radiation Protection			
Mathematics Pertaining to the Use and Measurement of Radioactivity			
Radiation Biology			
Chemistry of Byproduct Material for Medical Use			
OTHER			

MEDICAL USE TRAINING AND EXPERIENCE AND PRECEPTOR ATTESTATION (continued)**6a. WORK OR PRACTICAL EXPERIENCE WITH RADIATION**

Description of Experience	Name of Supervising Individual(s)	Location and Corresponding Materials License Number	Dates and/or Clock Hours of Experience
HDR remote afterloader (Nucletron Microselectron unit) spot checks. Includes source position check, safety equipment, decayed activity and etc.	Tianyou Xue, PhD	Radiation Medicine Specialists, 37-30549-01	10/2003 - Now 8:00AM-5:00PM
HDR remote afterloader full calibration. Includes all items in spot checks and source activity calibration and timer linearity check.	Tianyou Xue, PhD	Radiation Medicine Specialists, 37-30549-01	10/2003 - Now 8:00AM-5:00PM
HDR remote afterloader radiation survey and emergency procedure.	Tianyou Xue, PhD	Radiation Medicine Specialists, 37-30549-01	10/2003 - Now 8:00AM-5:00PM
Brachy therapy source calibration and decay correction calculation.	Tianyou Xue, PhD	Radiation Medicine Specialists, 37-30549-01	10/2003 - Now 8:00AM-5:00PM
Brachy therapy planning with Nucletron BPS system	Tianyou Xue, PhD	Radiation Medicine Specialists, 37-30549-01	10/2003 - Now 8:00AM-5:00PM
Megavoltage LINAC (1. Siemens Primus - photon 6MV&10MV, electron 6/9/12/15/18/21Mev. 2. Siemens KD - photon 6MV&15MV, electron 6/9/12/15/18/21Mev) mechanical and output calibration and radiation survey	Tianyou Xue, PhD	Radiation Medicine Specialists, 37-30549-01	10/2003 - Now 8:00AM-5:00PM
IMRT and 3D CRT radiation therapy treatment planning with Phillips Pinnacle and NOMOS CORVUS system	Tianyou Xue, PhD	Radiation Medicine Specialists, 37-30549-01	10/2003 - Now 8:00AM-5:00PM
IMRT treatment plan quality assurance using 1) film and chamber hybrid plan. 2) Sunnuclear 2D diode array system Mapcheck	Tianyou Xue, PhD	Radiation Medicine Specialists, 37-30549-01	10/2003 - Now 8:00AM-5:00PM

6b. SUPERVISED CLINICAL CASE EXPERIENCE (describe experience elements in 6a)

Radionuclide	Type of Use	No. of Cases Involving Personal Participation	Name of Supervising Individual	Location and Corresponding Materials License Number	Dates and/or Clock Hours of Experience
Ir - 192	HDR brachy therapy	54	Tianyou Xue, PhD	Radiation Medicine Specialists	10/2003 - Now
				37-30549-01	8:00AM - 5:00PM

MEDICAL USE TRAINING AND EXPERIENCE AND PRECEPTOR ATTESTATION (continued)

6c. TRAINING FOR SECTIONS 35.50(e), 35.51(c), 35.590(c), or 35.690(c)

Training Element	Type of Training *	Location and Dates
Ir-192 HDR remote afterloader operation procedure	Supervised	Radiation Medicine Specialists 10/2003 - Now
Ir-192 HDR remote afterloader emergency procedure	Supervised	Radiation Medicine Specialists 10/2003 - Now
Clinical use of Ir-192 HDR remote afterloader	Supervised	Radiation Medicine Specialists 10/2003 - Now
Operation of brachy therapy planning system	Supervised	Radiation Medicine Specialists 10/2003 - Now

* Types of training may include supervised (complete item 10 for 35.50(e), 35.51(c), and 35.690(c)), didactic, or vendor training.

7. FORMAL TRAINING Physicians (for uses under 35.400 and 35.600) and Medical Physicists

Degree, Area of Study or Residency Program	Name of Program and Location with Corresponding Materials License Number	Dates	Name of Organization that Approved the Program (e.g., Accreditation Council for Graduate Medical Education) and the Applicable Regulation (e.g., 10 CFR 35.490)
MS, Electrical Engineer	Department of Electrical and Computer Engineering, Illinois Institute of Technology, Chicago, IL	08/1999 - 07/2001	(NCACHE) North Central Association of Colleges and Schools, Commission on Institutions of Higher Education

8. RADIATION SAFETY OFFICER (RSO) -- ONE-YEAR FULL-TIME EXPERIENCE

- ☐ YES Completed 1 year of full-time radiation safety experience (in areas identified in item 6a) under supervision.
- ☒ N/A of _____ the RSO for License No. _____.

9. MEDICAL PHYSICIST -- ONE-YEAR FULL-TIME TRAINING/WORK EXPERIENCE

- ☒ YES Completed 1 year of full-time training (for areas identified in item 6a) in therapeutic radiological physics (35.961) or medical physics (35.51) under the supervision of Tianyou Xue, PhD
- ☐ N/A who is a medical physicist (35.961) or meets requirements for Authorized Medical Physicists (35.51);

and

- ☒ YES Completed 1 year of full-time work experience (at location providing radiation therapy services described and for topics identified in item 6a) for (specify use or device) Ir 192 in HDR remote afterloader
- ☐ N/A under the supervision of Tianyou Xue, PhD who is a medical physicist (35.961) or meets requirements for Authorized Medical Physicists (35.51) (specify use or device) Ir 192 in HDR remote afterloa.

MEDICAL USE TRAINING AND EXPERIENCE AND PRECEPTOR ATTESTATION (continued)

10. SUPERVISING INDIVIDUAL -- IDENTIFICATION AND QUALIFICATIONS

The training and experience indicated above was obtained under the supervision of (if more than one supervising individual is needed to meet requirements in 10 CFR Part 35, provide the following information for each) :

A. Name of Supervisor

Tianyou Xue, PhD

B. Supervisor is:

☐

Authorized User

☒

Authorized Medical Physicist

☐

Radiation Safety Officer

☐

Authorized Nuclear Pharmacist

C. Supervisor meets requirements of Part 35, Section(s) 51 (a) (1)(2)(3)

for medical uses in Part 35, Section(s) 600

D. Address

2623 Chardonnay Dr
Macungie, Pa18065

E. Materials License Number

37-30549-01

PART II -- PRECEPTOR ATTESTATION

Note: This part must be completed by the individual's preceptor. If more than one preceptor is necessary to document experience, obtain a separate preceptor statement from each. This part is not required to meet training requirements in 35.590 or Part 35, Subpart J (except 35.980).

I attest the individual named in Item 1:

11a.

☒

has satisfactorily completed the requirements in Part 35, Section(s) and Paragraph(s) 51(a) (1)(2),(b)(1),(c) ,
as documented in section(s) 6 to 9 of this form.

11b. Select one

☒

meets the requirements in ☐ 35.50(e) ☒ 35.51(c) ☐ 35.390(b)(1)(ii)(G) ☒ 35.690(c) for Ir-192 HDR
types of use, as documented in section(s) 6 to 9 of this form. remote afterloader

☐ N/A

11c.

☐

has achieved a level of competency sufficient to independently operate a nuclear pharmacy (for 35.980); **or**

☒

has achieved a level of competency sufficient to function independently as an authorized
Medical Physicist for HDR remote afterloader uses (or units); **or**

☐

has achieved a level of radiation safety knowledge sufficient to function independently as a Radiation Safety
Officer for a medical use licensee ; **or**

☐ N/A

11d.

☐

I am an Authorized Nuclear Pharmacist; **or** ☐ I am a Radiation Safety Officer; **or**

☒

I meet the requirements of 51 (a) (1) (2) (3) section(s) of 10 CFR Part 35

or equivalent Agreement State requirements to be a preceptor ☐ AU or ☒ AMP

for the following byproduct material uses (or units): Ir-192 HDR remote afterloader, IVBT, I-125 in seedSelectron

A. Address

2623 Chardonnay Dr
Macungie, PA 18062

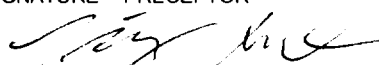
B. Materials License Number

37-30549-01 and 37-07939-01

C. NAME OF PRECEPTOR (print clearly)

Tianyou Xue, PhD

D. SIGNATURE -- PRECEPTOR



E. DATE

11/6/05

The American Board of Radiology

Diagnostic Radiology

Radiation Oncology

Radiologic Physics



Officers

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September 12, 2005

Diagnostic Radiology

Philip O. Alderson, M.D.

New York, New York

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George S. Bisset, M.D.

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Christopher Merritt, M.D.

Philadelphia, Pennsylvania

Anthony V. Proto, M.D.

Richmond, Virginia

Anne Roberts, M.D.

La Jolla, California

Janet L. Strife, M.D.

Cincinnati, Ohio

Kay H. Vydareny, M.D.

Atlanta, Georgia

Yibing Hu, MS



P3847 / PT

Dear Mr. Hu:

Congratulations, the results of your Therapeutic Physics examination are as follows:

Part 1: Part 1: Clinical

Passed

Part 1: Part 1: General Physics

Passed

To complete your examination you must still take Part 2, the Therapeutic Radiologic Physics examination. You will be notified of the next exam to which you are admissible.

Please notify us in writing immediately of any change of address.

Radiation Oncology

K. Kian Ang, M.D., Ph.D.

Houston, Texas

Bruce G. Haffty, M.D.

New Brunswick, New Jersey

Beth A. Erickson, M.D.

Milwaukee, Wisconsin

Richard T. Hoppe, M.D.

Palo Alto, California

Larry E. Kun, M.D.

Memphis, Tennessee

Steven A. Leibel, M.D.

Stanford, California

Sincerely,

R.R. Hattery

Robert R. Hattery, MD

Radiologic Physics

Richard L. Morin, Ph.D.

Jacksonville, Florida

Bhudatt R. Paliwal, Ph.D.

Madison, Wisconsin

Stephen R. Thomas, Ph.D.

Cincinnati, Ohio

**PERSONAL INFORMATION WAS REMOVED
BY NRC. NO COPY OF THIS INFORMATION
WAS RETAINED BY THE NRC.**

Robert R. Hattery, M.D., Executive Director

Lawrence W. Davis, M.D., Associate Executive Director

Assistant Executive Directors

Primary Certification

Anthony V. Proto, M.D., *Diagnostic Radiology*

Beth A. Erickson, M.D., *Radiation Oncology*

Bhudatt R. Paliwal, Ph.D., *Radiologic Physics*

Assistant Executive Directors

Maintenance of Certification

John E. Madewell, M.D., *Diagnostic Radiology*

Larry E. Kun, M.D., *Radiation Oncology*

Stephen R. Thomas, Ph.D., *Radiologic Physics*

Gary J. Becker, M.D., *Subspecialty Certification*

5441 E. WILLIAMS BOULEVARD, SUITE 200 • TUCSON, ARIZONA 85711-4493 • PHONE (520) 790-2900 • FAX (520) 790-3200
E-mail: information@theabr.org • Web Site: www.theabr.org

A Member Board of The American Board of Medical Specialties (ABMS)

ILLINOIS INSTITUTE OF TECHNOLOGY

By authority of the Board of Trustees, and upon the recommendation of the faculty of the

Armour College

Illinois Institute of Technology hereby confers upon

Vibing Hu

the degree of

**Master of Science
in Electrical Engineering**

with all the rights, privileges, and honors thereunto appertaining

Awarded at Chicago, in the State of Illinois

July 28, 2004

Robert A. Post
Chairman Board of Trustees

Max Anne Smith
Secretary



Ron Allen
President

Alan S. Smyth
Dean

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. Radiation Medicine Specialists of Northeast Pennsylvania, P.C.</p> <p>2. 190 Welles Street, Suite 100 Forty Fort, Pennsylvania 18704</p>	<p>In accordance with the letter dated June 28, 2005,</p> <p>3. License number 37-30549-01 is amended in its entirety to read as follows:</p> <hr/> <p>4. Expiration date February 28, 2010</p> <hr/> <p>5. Docket No. 030-35297 Reference No.</p>	
<p>6. Byproduct, source, and/or special nuclear material</p> <p>A. Iridium-192 permitted by 10 CFR 35.600</p> <p>B. Depleted Uranium</p>	<p>7. Chemical and/or physical form</p> <p>A. Sealed Sources [Nucletron Model 105.002 (manufactured by Mallinckrodt Medical B.V. or AEA Technology, Inc.)]</p> <p>B. Metal</p>	<p>8. Maximum amount that licensee may possess at any one time under this license¹.</p> <p>A. 12 curies per source and 22 curies total</p> <p>B. 30 kilograms</p>
<p>9. Authorized use:</p> <p>A. One source for medical use permitted by 10 CFR 35.600, in a Nucletron Corporation Model 105.999 remote afterloader unit. The source activity may not exceed 10 curies at the time of use. One source in its shipping container as necessary for replacement of the source in the remote afterloader unit.</p> <p>B. Shielding in an ADAC Model MCD/AC system.</p>		

CONDITIONS

10. Licensed material may be used or stored only at the licensee's facilities located at 190 Welles Street, Suite 100, Forty Fort, Pennsylvania.
11. The Radiation Safety Officer for this license is Norman Schulman, M.D.

**MATERIALS LICENSE
SUPPLEMENTARY SHEET**License Number
37-30549-01Docket or Reference Number
030-35297

Amendment No. 6

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

A. Individuals permitted to work as an authorized user 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 as indicated:

Authorized Users

Norman Schulman, M.D.

Material and UseIridium 192 for uses in a High Dose Rate Remote Afterloading Brachytherapy Unit;
Depleted Uranium

C. The following individuals are authorized medical physicists as indicated:

Authorized Medical Physicists

Shih-min Lo, Ph.D.

Material and Use

Iridium 192 in a High Dose Rate Remote Afterloader Unit for calibrations, spot-checks and training

Carmine Pierno, M.S.

Iridium 192 in a High Dose Rate Remote Afterloader Unit for calibrations, spot-checks and training

Tianyou Xue, Ph.D.

Iridium 192 in a High Dose Rate Remote Afterloader Unit for calibrations, spot-checks and training

13. The licensee is authorized to transport licensed material in accordance with the provisions of 10 CFR Part 71, "Packaging and Transportation of Radioactive Material."

**MATERIALS LICENSE
SUPPLEMENTARY SHEET**

License Number

37-30549-01

Docket or Reference Number

030-35297

Amendment No. 6

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. 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. Letter dated December 20, 1999 (ML003672480)
- B. Letter dated February 2, 2000 (ML003681403)
- C. Letter dated December 7, 2000 (ML003779187)
- D. Letter dated December 14, 2000 (ML010090196)
- E. Letter dated February 2, 2001 (ML010400152)
- F. Letter dated November 5, 2002 (ML023120137)
- G. Letter dated December 23, 2002 (ML023580335)
- H. Letter dated March 24, 2003 (ML030920693)

For the U.S. Nuclear Regulatory Commission

Original signed by Penny LanziseraDate September 6, 2005Penny Lanzisera

Medical Branch

Division of Nuclear Materials Safety

Region I

King of Prussia, Pennsylvania 19406

Tuesday, September 06, 2005 11:36:26 AM

This is to acknowledge the receipt of your letter/application dated

11/7/2005, and to inform you that the initial processing which includes an administrative review has been performed.

☒ AMEND. 37-30569-01
There were no administrative omissions. Your application was assigned to a technical reviewer. Please note that the technical review may identify additional omissions or require additional information.

☐ Please provide to this office within 30 days of your receipt of this card

A copy of your action has been forwarded to our License Fee & Accounts Receivable Branch, who will contact you separately if there is a fee issue involved.

Your action has been assigned **Mail Control Number** 137953.
When calling to inquire about this action, please refer to this control number.
You may call us on (610) 337-5398, or 337-5260.