■ MONMOUTH
■ ■ MEDICAL CENTER
An affiliate of the Saint Barnabas Health Care System

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705 JUN 2_ PM 2:39

RONALD J. DEL MAURO
President and Chief Executive Officer
Saint Barnabas Health Care System

FRANK J.VOZOS, MD, FACS
Executive Director
Monmouth Medical Center
(732) 923-7504
Fax: (732) 923-7511

June 6, 2005

Michelle Beardsly
Senior Health Physicist
U.S. Nuclear Regulatory Commission
Region I
475 Allendale Road
King of Prussia, PA 91406-1415

RE: License No. 29-08113-03 63017015

Dear Ms. Beardsley:

This letter is to support the application and approval of Dr. Gin-Weigh Wu as an authorized Medical Physicist (AMP) for HDR Remote Afterloading Devices in the department of Radiation Oncology of Monmouth Medical Center, Long Branch, New Jersey. Dr. Gin-Weigh Wu has been employed in radiation oncology as a physicist performing routine quality assurance work on external beam machines since May 2003. He has also been, under direct supervision, receiving training in HDR remote afterloading-devices. We would like to add Dr. Wu to our NRC license as an authorized medical physicist for HDR remote afterloading devices.

Dr. Wu meets the qualifications of 10 CFR: 35.961(c).

1. Dr. Wu graduated with a Ph.D. degree in Nuclear Engineering and Radiological Sciences from the University of Missouri-Columbia with emphasis on the nuclear and medical usage and projects.

2. Dr. Wu has worked in the department of Radiation Oncology at Monmouth Medical Center as a trainee under three AMPs (Jack Yang, Thomas Piccoli, and Hansen Chen) during the past two years. He has been supervised to perform the quality assurance procedures, and most importantly, the emergency procedures in managing the Ir-193 HDR source from Nucletron Corp. (See attached documentation.)

137241

NMSS/RGNI MATERIALS-002

300 SECOND AVENUE ■ LONG BRANCH, NEW JERSEY 07740 ■ (732) 222-5200

Saint Barnabas Health Care System — New Jersey's health care system.

3. He has been directly supervised for over 100 HDR treatments. He is very familiar with clinical procedures (more than 100 cases) and meets the regulations in 10 CFR 961 (c).
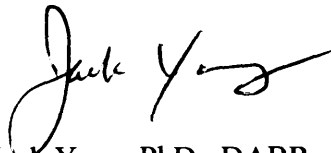
His level of competency has also been approved by our senior management and our radiation safety committee members.

Please feel free to contact us at 732.923.6811, should you need additional information or have any questions.
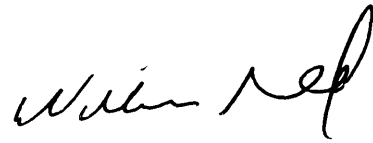
Sincerely;

Thomas Piccoli, DABR
Medical Physicist/RSO

Jack Yang, PhD., DABR
Chief Medical Physicist
Radiation Oncology

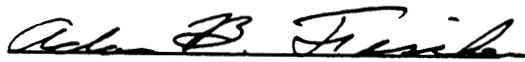William Arnold
Vice President, Operations

The Curators of the University of Missouri

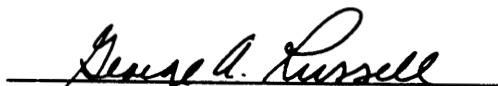## To all whom it may concern
Greeting:

Be it known that the Curators, having been advised by the Faculty that

Gin-Weigh Wu

has completed the Course of Study required of candidates for the degree of

Doctor of Philosophy

Nuclear Engineering

and is qualified to receive the same, do by these presents confer said degree
with all the honors and privileges appertaining thereto.
In testimony whereof the signatures of the proper officials and the
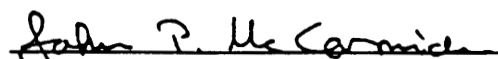seal of the University are affixed.

Done at the University in the City of Columbia, State of Missouri,
this fourth day of August, in the year of our Lord
one thousand nine hundred and ninety-five.

_____
President of the Board of Curators

_____
George A. Russell
President of the University

_____
Chancellor

_____
John R. McCormick
Dean of the Graduate School

UNIVERSITY OF MISSOURI · COLUMBIA

COURSE NUMBER	COURSE TITLE	GRADE	CR HRS	REMARKS
FALL 1988	UNIV OF MO-COL GRAD NU ENG			
NU ENG 303	RADIATION SAFETY	B	3.0	
NU ENG 409	INTERACTN OF RAD WITH MAT	A	3.0	
NU ENG 411	NUCLEAR REACTOR THEORY 1	A	3.0	
WINT 1989	UNIV OF MO-COL GRAD NU ENG			
NU ENG 402	NUCLEAR FUEL CYCLE	B	3.0	
NU ENG 404	NUCLEAR REACTOR LAB 1	B	3.0	
NU ENG 432	NUCLEAR REACTOR ENGINEER	B	3.0	
SUM 1989	UNIV OF MO-COL GRAD NU ENG			
NU ENG 490	THESIS RESEARCH	A	3.0	
FALL 1989	UNIV OF MO-COL GRAD NU ENG			
ECE 413	SOLID STATE THEORY 1	B	3.0	
ECE 418	SEMINAR IN NUCLEAR ENGR	B	1.0	
NU ENG 453	FUSION THEORY	B	3.0	
NU ENG 490	RESEARCH IN NUCLEAR ENGR	A	3.0	
WINT 1990	UNIV OF MO-COL GRAD NU ENG			
ECE 412	ADV/AN INTEGRATED CIRCUIT	B	3.0	
FALL 1990	UNIV OF MO-COL GRAD NU ENG			
ECE 334	DES & ANAL INTGR CIRCTS	B	3.0	
ECE 336	POWER ELECTRONICS I	B	4.0	
ECE 450	SUPRCONDCTY & APPLCTNS	A	3.0	
WINT 1991	UNIV OF MO-COL GRAD NU ENG			
NU ENG 451	NEUTRON TRANSPORT THEORY	A	3.0	
FALL 1991	UNIV OF MO-COL GRAD NU ENG			
CMP SC 321	EXPERT SYSTEMS	A	3.0	
NU ENG 490	RESEARCH IN NUCLEAR ENGR	A	3.0	
WINT 1992	UNIV OF MO-COL GRAD NU ENG			
ECE 474	ARTIFICIAL INTELLIGENCE	B	3.0	
NU ENG 490	RESEARCH IN NUCLEAR ENGR	A	6.0	
FALL 1992	UNIV OF MO-COL GRAD NU ENG			
NU ENG 490	RESEARCH IN NUCLEAR ENGR	A	9.0	
WINT 1993	UNIV OF MO-COL GRAD NU ENG			
NU ENG 471	NEURAL NETWORK COMP SYS	B	3.0	
NU ENG 490	RESEARCH IN NUCLEAR ENGR	A	3.0	
	PASSED COMPREHENSIVE EXAMINATION-NU ENG			
SUM 1993	UNIV OF MO-COL GRAD NU ENG			
NU ENG 490	RESEARCH IN NUCLEAR ENGR	A	2.0	
FALL 1993	UNIV OF MO-COL GRAD NU ENG			
NU ENG 421	NUCLEAR PULSE ANALYSIS	A	3.0	
NU ENG 490	RESEARCH IN NUCLEAR ENGR	A	2.0	
WINT 1994	UNIV OF MO-COL GRAD NU ENG			
NU ENG 490	RESEARCH IN NUCLEAR ENGR	S	2.0	
SUM 1994	UNIV OF MO-COL GRAD NU ENG			
NU ENG 490	RESEARCH IN NUCLEAR ENGR	S	1.0	
FALL 1994	UNIV OF MO-COL GRAD NU ENG			
NU ENG 490	RESEARCH IN NUCLEAR ENGR	I	2.0	
WINT 1995	UNIV OF MO-COL GRAD NU ENG			
NU ENG 490	RESEARCH IN NUCLEAR ENGR	S	2.0	
SUM 1995	UNIV OF MO-COL GRAD NU ENG			
NU ENG 490	RESEARCH IN NUCLEAR ENGR	S	1.0	

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

ISSUED TO STUDENT

Gary F. Smith
Director of Admissions and Registrar

Gin-Weigh Wu

Tel: ███████████████████

Education:

Ph.D.   in Nuclear Engineering from University of Missouri - Columbia (Aug., 1995)
M.S.   in Nuclear Engineering from University of Missouri - Columbia (May, 1990)
B.S.   in Nuclear Science from National Tsing Hua University, Taiwan (May, 1984)

Work Experience:

2003 -- present
Research Associate
Department of Radiation Oncology
Monmouth medical Center, Long Branch, NJ

Be responsible or participate in all special physics projects and clinical physics
services, including **3-D** conformal External Beam Radiation Therapy **(3DCRT)**
and Intensity Modulated Radiation Therapy **(IMRT),** High Dose Rate
Brachytherapy **(HDR),** Prostate Seed Implants **(PSI),** Sterotactic Radiosurgery
(SRS), IMRT verification, weekly chart checking, overseeing patient simulation
and treatment setups, simulator/linear accelerator QA (accelerator testing,
brachytherapy source calibration, equipment acceptance testing, Daily/ monthly/
annual quality assurance checkout test). Experience with **SIEMENS** linear
accelerators **(PRIMUS & ONCOR),** ADAC's P^3innacle **& P^3IMRT** planning
system(V.6.5 & V.7.4), **Nucletron PLATO** Brachytherapy Planning System
V.3.3.2, VARIAN VariSeed V7.0, , RIT system and **IMPAC/ LANTIS** R&V
system, Sun Nuclear's **Daily QA, Profile & MapCheck** system.

1999 – 2003
Project Leader for AT&T End-To-End Service Delivery Project
/ Integrated Solutions Inc.
(As a AT&T Contractor of Business Process /IT Application Performance Analysis,
Monitoring & Optimization District in AT&T LABS   at Middletown, NJ)

* Business Process Analysis for AT&T End-To-End Service Delivery
-- By developing data analysis methodology and tools working with PM's Process Modeling and
Simulation Software (Win NT, Win 2000 platform), the team build ETE Service Delivery Process
Simulation Model (including FR, PL, HSSD, ATM, IP, etc ...) and associated analysis capabilities
to target investment strategies and anticipate/ plan for DMOQ /KPI performance under different
business scenarios, which include ITB investment, USO volume changes, Resource Headcount
changes, Bottleneck & performance analysis, etc ....

*OneVu Network Management System
for HP 9000 N-Class Server (HP/UX 11.0 platform)
-- By using JAVA 1.2, CORBA(VisiBroker 4.5 Java Version), CORBA Notification Service
(PrismTech's OpenFusion 2.5 Java Version), XML(JDOM), JDBC(Oracle9i), and database status
tracking/polling technologies, ONEVU provided a Java CORBA Client/Server Network
Management System tools for the AT&T new Competitive Network Initiative (CNI) Network to
integrate Ciena's Intelligent Optical Switch (IOS) and Cisco's Multi-Service Platform (MSP)

Element management System (EMSs) into AT&T Operations Support System(OOS). It not only provided a real-time view of the entire network inventory of Ciena's Intelligent Optical Switch and Cisco's Multi-Service Platform EMS, but also provided a focal point to communicate with EMS's for service provisioning purpose.

1996 - 1999

Software Engineer
(America Online(AOL)/SPRYNET Internet Division, Bellevue, WA)

* CompuServe/SPRYNET 32 Bit Registration Wizard
-- By using C &C++ programming,, developed a 32 bit Remote Access Maintenance Protocol(RAMP) client software application that resides on a Microsoft Windows PC and communicates with a remote server computer to sign-up a user with a SPRYNET Internet access account and E-MAIL account.

1988 - 1996

Research Assistant -
MURR (Missouri University Research Reactor), Columbia, MO

* On-line Neutron Noise Surveillance Expert System
-- Developed a **C** software application which combined with Hybrid Expert System by using a Statistical Pattern Recognition model to perform an on-line effective surveillance model for statistical monitoring of **Reactor Neutron Flux** signal pattern similarity based on Euclidian distance similarity measurement.

* Determination of Hydrogen in steel by Neutron Scattering
Designed and conducted experiments in the **Neutron Scattering experiment**, and developed a **new Monte Carlo statistical computer model** using FORTRAN and C to theoretically duplicate a statistical trials for determination of Hydrogen in steel by neutron scattering.

1986 - 1988

Research Assistant
Institute of Nuclear Engineering,
National Tsing Hua University, Taiwan

* Dropped Rod Accident in the Nuclear Power Plant
-- Developed a statistical computer model with FORTRAN Programming to simulate and Analyze the Dropped Rod Accident in the PWR Nuclear Power Plant.

Award:

1995 Superior Graduate Achievement Award

The program is sponsored by the Graduate student Association of UMC and recognizes graduate students for excellence in the areas of academics, teaching, research and extension.

References:

Available upon request.

Nucletron

Field Training Report

Nucletron Corporation, Service Department, 8671 Robert Fulton Drive, Columbia, MD 21046   PH: 410-872-4400   Fax: 410-312-4196

Customer		Charge Type			
Kimball Medical Center		☐ Contract	☐ No Charge	☐ Bill	
Address		☑ Install	☐ Warranty	☐ Other	
101 Prospect Street, Suite 111					
Lakewood, NJ 08701		Call Number		☐ Rtn. Visit Required	

Phone No.	732 363.2699	Course Instructor	Date in	24-May-05	Out	24-May-05
PO No.		Paul Stehle	Time in		Out	

Training Given

mHDR V2 Emergency Procedures

Attendance Registration

Name	Title	Department	Signature
Gin-Weigh Wu	Physicist	Rad Oncology	Tue May 2005 05/ 24/ 05 18 37 32
Ping-Fang Tsai	Physicist	Rad Oncology	Tue May 2005 05/ 24/ 05 18 37 42

Remarks

Travel Charged	Hrs	Airline		Travel Expenses (Meals, Tolls, etc)
Regular Charged	Hrs	Rental Car		
Overtime Charged	Hrs	Hotel		
O/T (Sundays & Holidays)	Hrs	No of Miles	$0.00	

We certify that the training noted in this document has been carried out in accordance with the manufacturer's instructions by Nucletron's authorized representative and with proper supervision by:

Course Instructor	Customer
Tue May 2005 05/24/05 18:39:40 Paul Stehle	

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

_____6/6/2005_____, and to inform you that the initial processing which includes an administrative review has been performed.

Amendment 29-08 113-03

[X] 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** _13 7241_.
When calling to inquire about this action, please refer to this control number.
You may call us on (610) 337-5398, or 337-5260.

NRC FORM 532 (RI)
(6-96)

Sincerely,
Licensing Assistance Team Leader

```
                                    :          (FOR LFMS USE)
                                    :       INFORMATION FROM LTS
BETWEEN:                            :       --------------------
                                    :
License Fee Management Branch, ARM  :    Program Code: 02230
          and                       :    Status Code: 0
Regional Licensing Sections         :    Fee Category: 7C
                                    :    Exp. Date: 20060331
                                    :    Fee Comments: _____
                                    :    Decom Fin Assur Reqd: N
                                    ::::::::::::::::::::::::::::::::::::::::::::::::::
```
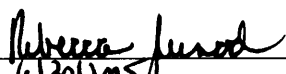
LICENSE FEE TRANSMITTAL

A. REGION $\mathcal{I}$

1. APPLICATION ATTACHED
    Applicant/Licensee: MONMOUTH MEDICAL CENTER
    Received Date: 20050624
    Docket No: 3017015
    Control No.:   137241
    License No.:   29-08113-03
    Action Type: Amendment

2. FEE ATTACHED
    Amount: _____
    Check No.:   _____

3. COMMENTS

                      Signed _____
                      Date   _____

B. LICENSE FEE MANAGEMENT BRANCH (Check when milestone 03 is entered /__/)

1. Fee Category and Amount: _____

2. Correct Fee Paid. Application may be processed for:
    Amendment   _____
    Renewal   _____
    License   _____

3. OTHER   _____
             _____

                      Signed _____
                      Date   _____

**REGION I - DIVISION OF NUCLEAR MATERIALS
ADAMS DOCUMENT SUBMISSION FORM**

U.S. NUCLEAR REGULATORY COMMISSION

BECKY JUNOD	☐ RETURN TO ORIGINATOR ■ FILE	EXTENSION: 5260	DATE: 6/30/2005

P A C K A G E

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(Provided by Contractor)

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Package Security: ☐ User(s)   ■ Groups

Name: NRC Users _____   Access Level: Viewer _____
Name: RI DNMS Admin. Staff _____   Access Level: Owner _____
Name: Document Processing Center _____   Access Level: Owner _____
Name: _____   Access Level: _____

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                          (provide date)   (provide date)

■ **Non-Publicly Available**

DOCUMENT(S) TITLE:

1.   ✗, Amendment Request dated 6/17/2005 _____

License No. _____
Docket No. _____

RETRIEVAL TAG: Case/Reference No. 137242   Document/Report No._____
(for Lic. use the Mail Control #, LER use LER #)   (for Inspection, use the Report No.)

KEYWORD - ADAMS Template No:
☐ NMSS/RGN Materials-001(Out Lic)   ■ NMSS/RGN Materials-002(In Lic)
☐ NMSS/RGN Materials-004(In Inspect)   ☐ NRC-002(Out Inspect)
☐ NMSS/RGN Materials-006(LERs)   ☐ NMSS-11(General Lic)
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■ Groups   Name: NRC Users _____   Access Level: Viewer _____
             Name: RI DNMS Admin. Staff _____   Access Level: Owner _____
             Name: Document Processing Center _____   Access Level: Owner _____

☐ *URGENT Request*   Scanned By: _____   Dtd: _____

-11-