

ARMED FORCES RADIOBIOLOGY RESEARCH INSTITUTE 8901 WISCONSIN AVENUE BETHESCA, MARYLAND 20889-5603



September 11, 2008

Mr. John McGrath Nuclear Regulatory Commission Region I 475 Allendale Road King of Prussia, PA 19406

Dear Mr. McGrath,

Br)

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03004545



This letter requests that the NRC amend AFRRI licenses 19-08330-02 and 19-08330 $\overline{03}$ to reflect the appointment of Anna M. J. Teachout as our Radiation Safety Officer (RSO).

Our current RSO, Lieutenant Matt D. Beery, will be returning shortly to his assigned duties with Military Medical Operations (MMO) here at the Armed Forces Radiobiology Research Institute. With recommendation of the Radionuclide and X-ray Safety Committee (RXSC), I have appointed Ms. Teachout to serve as RSO, pending NRC approval. Ms. Teachout's curriculum vitae (CV) is enclosed for your review.

Ms. Teachout brings over 17 years of knowledge gained from service with academic, private, and government sectors in the areas of radiation health and safety, use of large radiation sources, and radiation-producing machines to the AFRRI. In addition, Ms. Teachout has considerable experience with research reactor environments and their attendant health physics support requirements.

Thank you for your prompt attention to this request. If you have questions concerning this request, please call the Radiation Safety Office, Anna M.J. Teachout, at (301) 295-1285 or e-mail, <u>teachout@afrri.usuhs.mil</u>.

Sincerely, one Phin

PATRICIA K. LILLIS-HEARNE COL, MC, USA Director

Enclosure 1. CV for Anna M.J. Teachout



	APPROVED BY OMB: NO. 3150-0120 EXPIRES: 10
(10-2005) 10 CFR 30, 32, 33, 34, 35, 36, 39, and 40	Estimated burden per response to comply with this mandatory collection rec hours. Submittal of the application is necessary to determine that the ap gualified and that adequate procedures exist to protect the public health ar Send comments regarding burden estimate to the Records and FOIA/Privacy Branch (T-5 F53), U.S. Nuclear Regulatory Commission, Washington, DC 205 Branch (T-5 F53), U.S. Nuclear Regulatory Commission, Washington, DC 205
APPLICATION FOR MATERIAL LICENSE	Information and Regulatory Affairs, NEOB-10202, (3150-0120), Office of Mar and Budget, Washington, DC 20503. If a means used to impose an inf collection does not display a currently valid OMB control number, the NRC conduct or sponsor, and a person is not required to respond to, the inf collection.
INSTRUCTIONS: SEE THE APPROPRIATE LICENSE APPLICATION GI SEND TWO COPIES OF THE ENTIRE COMPLETED APPLICATION TO	JIDE FOR DETAILED INSTRUCTIONS FOR COMPLETING APPLICA THE NRC OFFICE SPECIFIED BELOW.
APPLICATION FOR DISTRIBUTION OF EXEMPT PRODUCTS FILE APPLICATIONS WITH:	IF YOU ARE LOCATED IN:
DIVISION OF INDUSTRIAL AND MEDICAL NUCLEAR SAFETY OFFICE OF NUCLEAR MATERIALS SAFETY AND SAFEGUARDS U.S. NUCLEAR REGULATORY COMMISSION WASHINGTON, DC 20555-0001	ILLINOIS, INDIANA, IOWA, MICHIGAN, MINNESOTA, MISSOURI, OHIO, OR WISCONS Applications to: Materials licensing branch
ALL OTHER PERSONS FILE APPLICATIONS AS FOLLOWS:	U.S. NUCLEAR REGULATORY COMMISSION, REGION III 2443 WARRENVILLE ROAD, SUITE 210 LISLE, IL 60532-4352
IF YOU ARE LOCATED IN:	
ALABAMA, CONNECTICUT, DELAWARE, DISTRICT OF COLUMBIA, FLORIDA, GEDRGIA, KENTUCKY, MAINE, MARYLAND, MASSACHUSETTS, NEW HAMPSHIRE, NEW JERSEY, NEW YORK, NORTH CAROLINA, PENNSYLVANIA, PUERTO RICO, RHODE ISLANI), SOUTH CAROLINA, TENNESSEE, VERMONT, VIRGINIA, VIRGIN ISLANDS, OR WEST VIRIJINIA, SEND APPLICATIONS TO:	ALASKA, ARIZONA, ARKANSAS, CALIFORNIA, COLORADO, HAWAII, IDAHO, KANS LOUISIANA, MISSISSIPPI, MONTANA, NEBRASKA, NEVADA, NEW MEXICO, NORTH OKLAHOMA, OREGON, PACIFIC TRUST TERRITORIES, SOUTH DAKOTA, TEXAS, UT WASHINGTON, OR WYOMING, SEND APPLICATIONS TO:
LICENSING ASSISTANCE TEAM DIVISION OF NUCLEAR MATERIALS SAFETY U.S. NUCLEAR REGULATORY COMMISSION, REGION ! 475 ALLENDALE ROAD KING OF PRUSSIA, PA 19406-1415	NUCLEAR MATERIALS LICENSING BRANCH U.S. NUCLEAR REGULATORY COMMISSION, REGION IV 611 RYAN PLAZA DRIVE, SUITE 400 ARLINGTON, TX 76011-4005
1. THIS IS AN APPLICATION FOR (Check appropriate item)	2. NAME AND MAILING ADDRESS OF APPLICANT (Include ZIP code)
A. NEW LICENSE 19-06330-02 & J B. AMENDMENT TO LICENSE NUMBER 19-08330-03	AFRRI Bldg 42 8901 Wisconsin Ave.
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Anna M. Johnson (A.J.) Teachout

Office Telephone: 301.295-1285 Cellular Telephone: 301-466-4713 E-mail: Teachout@AFRRI.USUHS.mil

CURRICULUM VITAE

EDUCATION

Graduate Nuclear Science Program, San José State University, CA M.S. in radiological health physics (1994) Dissertation: "A Comparison of Neutron Detection Systems with Radioisotopic Neutron Sources in Preparation for Characterization of the Neutron Spectra of Varian Model 2100 and 2300 Clinacs©" Advisors: Dr. Peter Englert and Dr. Nolan Hertel

Norfolk State University, Norfolk, VA B.S. in Physics (1990); Graduated summa cum laude

EXPERIENCE

Texas Department of State Health Services, Radiation Branch, Inspections Unit, Austin, TX (2008)

Radioactive Materials Inspector; Statewide roaming inspector (not assigned to a Region); Conducted performance-based inspections of radioactive materials (RAM) licensees throughout the state of Texas to ascertain compliance with regulatory and license conditions.

Foxfire Scientific, Inc., Arlington, TX (2005-2007)

Senior Health Physics Consultant; Performed radiation dose reconstructions for former atomic weapons employees and/or energy employees at current/former Department of Energy (DOE) sites covered under the Energy Employees Occupational Illness Compensation Program Act of 2000.

Simon, Galasso & Frantz, PLC, Intellectual Property Practice Group; Toler Larson, and Able, LLP, both of Austin, TX (2001-2004)

Technical Advisor and Patent Agent; Provided expertise in areas of radiation physics and radiochemistry, e.g., accelerator design, nuclear measurements, and reactor physics, as well as materials physics and chemistry (semiconductors and advanced fluids).

Nuclear Engineering Teaching Laboratory (NETL), the University of Texas at Austin, Austin, TX (1993-2001)

Radiation Safety/Reactor Health Physicist/Research Associate; Responsible for compliance with federal and state regulations as regards radioactive materials for

an NRC reactor license, an NRC special nuclear materials license, and Texas broad scope license issues and safety in an academic research environment.

Varian Associates, Inc., Oncology Systems Division, and the Stanford Linear Accelerator (SLAC), Palo Alto, CA (1992-1993) Visiting Scientist; Conducted research on neutron spectroscopy employing various methods to quantify the neutron spectra, average energy, and neutron dose equivalent for all Varian clinical accelerators (2100-2300 Clinac© series) in both a clinical (oncology/radiology) and industrial (manufacturing facility) settings.

The Continuous Electron Beam Accelerator Facility (CEBAF, now Thomas Jefferson National Laboratory), Newport News, VA (1989-1990) Research Associate; Performed the radiation shielding calculations for the focal plane detector (FPD) region of either spectrometer arm in experimental hall A. Work assessed the weight, volume, and cost of said shielding requirements.

PROFESSIONAL AFFILIATIONS

South Texas Chapter, Health Physics Society Texas Section, American Physical Society American Physical Society (APS) APS Forum on Physics and Society APS Forum on Industrial and Applied Physics Beta Kappa Chi Honor Society Alpha Kappa Mu Honor Society

PROFESSIONAL ACCOMPLISHMENTS

Registered Patent Agent, United States Patent and Trademark Office, Registration Nr. 54,486

President of the South Texas Chapter, Health Physics Society, 1998-1999

Science Teacher Workshops Coordinator and Fund Raising Committee Chair for the South Texas Chapter, Health Physics Society, 1996-1997

Selected by the American Physical Society to participate in their Industrial Summer Intern Program, 1991

Federal Aviation Administration certificated commercial pilot, fixed and rotary wing

PUBLICATIONS

Neutron Field Characterization in the Vicinity of a PET Cyclotron, N.E. Hertel, H.R. Vega-Carrillo, A.J. Teachout, P. Jerabek, B.W. Wehring, Proceedings of the

13th Midyear Topical Meeting of the Health Physics Society: Health Physics of Radiation Generating Machines, January 5-8, 1997, San Jose, CA, pp. 461-69

A Case Study in Control of Access to Radiation Beams: Neutron Depth Profiling at the Nuclear Engineering Teaching Laboratory, The University of Texas at Austin, A.J. Teachout, T.L. Bauer, K Unlu, B.W. Wehring, Proceedings of the American Nuclear Society 1996 Topical Meeting, Volume 2, No. Falmouth, MA, pp 888-93.

Paired Thermoluminescent Dosimeter Technique in Bonner Sphere Spectrometry, H.R. Vega-Carillo, N.E. Hertel, A.J. Teachout, B.W. Wehring, Transactions Am. Nucl. Soc. 73, 356 (1995).

A Comparison of Neutron Detection Systems with Radioisotopic Neutron Sources in Preparation for Characterization of the Neutron Spectra of Varian Model 2100 and 2300 Clinacs©, A.J. Teachout, M.M. Elsalim, J.H. Kleck, P.A.J. Englert, J.C. Liu, V., Vylet

Characterization of the Neutron Environment Around Varian Clinacs© Model 2100 C and 2300 C/D Medical Linear Accelerators, M.M. Elsalim, A.J. Teachout, P.A.J. Englert, J.H. Kleck, J.C. Liu, V. Vylet.

Gadolinium Neutron Capture Therapy Dosimetry Measurements, K.P. Cheng, K. Unlu, A.J. Teachout, N. M. Abdurrahman, B.W. Wehring, Transactions Am. Nucl. Soc. 73, 30 (1995).

Water-Extended Polyester Based Neutron Shielding Calculations, H.R. Vega-Carillo, A.J. Teachout, T.L. Baue^r

A Comparative Study of the UTA4 and the MYS4 Bonner Sphere Response Matrices, H.R. Vega-Carillo, A.J. Teachout, B.W. Wehring

New Neutron Sources for Calibration Purposes, H.R. Vega-Carillo, A.J. Teachout, B.W. Wehring, Sociedad Nuclear Mexicana, VI. Congreso Annual Memorias, Vol I, 33 (1995).

Radiological Characteristics of Composite Materials for Hand Glove Protection, S. Landsberger, A.J. Teachout, D. Doo-doo Amoo, Amarillo National Resource Center for Plutonium. Anna M. J. (AJ) Teachout

September 10, 2008

In addition to the required coursework, laboratories (e.g., Radiation Physics Instrumentation, Radiation Biophysics, Radiation Dosimetry, NRC and Agreement State Regulations, Applied Health Physics, et cetera) and thesis requirements for award of a Master of Science in Radiological Health Physics, the following is a representative sampling of some of the training classes I have taken:

"Safety Aspects of Industrial Radiography," NRC H-305, (40 hrs) St. Rose, LA, 2008

"Materials Control and Security Systems and Principles Course," NRC S-200, (40 hrs) Albuquerque, NM 2008

"External and Internal Dose Reconstruction Criterion for Former Atomic Weapons Employees and Energy Employees," Dade Moeller & Associates, (40 hrs) Richland, WA 2005

"DOT & NRC Requirements for Shipping and Receiving Radioactive Materials," Technical Training Associates, (32 hrs) Oak Ridge, TN 1994, 1999

"Reactor Health Physics," Health Physics Society Summer School, (40 hrs) Beverly, MA 1995

The following listing recounts some courses of instruction which I have presented:

"Accelerator Health Physics" Taught a two hour block of an eight hour course of instruction in radiation safety and radiation safety issues to the Texas Department of Health, Bureau of Radiation Control, Austin, TX 1999.

"Neutron Dosimetry and Neutron Measurements" Taught three class sessions each semester as a 'substitute instructor' for the professor whose undergraduate mechanical/nuclear engineering class had a module on the interaction of radiation with matter (radiation physics). 1994-1999

Conducted distance learning (televised "webinar") sessions on transportation regulations and requirements for radioactive materials for the University of Texas at Austin's health physics undergraduate program. 1998-2000

Conducted (organizer/moderator/instructor) several Science Teacher Workshops throughout the state of Texas. Taught blocks of instruction on radiation units, environmental radiation, and current topics in radiation (nuclear power, waste disposal, popularity of CT scans and its implications, et cetera) 1996-1997

Participated in several *Women in Engineering and Science* and *Expanding Your Horizons* symposia as a presenter. Presentations about the generally unknown uses of radioactive materials in our daily lives (permanent press clothing, curing non-stick cookware, et cetera), as well as careers in radiation physics or radiological health physics. 1994-2000

27 August 2008

RSDL

MEMORANDUM FOR RECORD

Subject: COBALT 60 IRRADIATION FACILITY RADIATION SAFETY OFFICER QUALIFICATIONS

- 1. This is to certify that Ms. Anna M. Teachout has met the qualifications to be the RSO for the Cobalt 60 Irradiation Facility.
- 2. Ms. Teachout has completed the minimum of 4 hours of on the job training (OJT) per training standard 8 2b (3) (b) of NRC License 19-08330-03. Scored a 100% on a 24 question written examination, scoring a 100% on the oral examination, testing her knowledge on safety operation and emergency procedures.
- 3. Ms. Teachout has reviewed the 10 CFR 39 and NUREG-1345
- 4. Ms. Teachout has over 17 years practical experience in this field and 8 years experience as a Radiation Safety/Reactor Health Physicist.

Mark Gee

LINAC/COBALT Division Chief





September 11, 2008

MEMORANDUM FOR DISTRIBUTION A

Subject: AFRRI Radiation Safety Officer (RSO) and Radiation Safety Committee (RSC) Appointments

Reference: AFRRI Instruction 6055.8

Supersedes: AFRRI memo of 15 November 2007, same subject

Effective: 13 October 2008, pending NRC approval

Anna M. J. Teachout, M.S., is appointed the AFRRI RSO and Member of the RSC and its two subcommittees, the Reactor and Radiation Facilities Safety Subcommittee (RRFSS) and the Radioisotope and X-Ray Safety Subcommittee (RXSS).

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PATRICIA K. LILLIS-HEARNE COL, MC, USA Director

This is to acknowledge the receipt of your of the second s	bur letter/application dated to inform you that the initial processing which been performed. 09330-02 and $19-08330-03bions. Your application was assigned to ato the technical review may identify additionalrmation.$
Please provide to this office within 3	30 days of your receipt of this card
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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** 142980/14288When 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