



UNIFORMED SERVICES UNIVERSITY OF THE HEALTH SCIENCES
ARMED FORCES RADIOBIOLOGY RESEARCH INSTITUTE
8901 WISCONSIN AVENUE, BUILDING 42
BETHESDA, MARYLAND 20889-5603



7 July 2014

Licensing Assistance Team
Division of Nuclear Materials Safety
U.S. Nuclear Regulatory Commission, Region I
2100 Renaissance Boulevard, Suite 100
King of Prussia, PA 19406-2713

Br. 2
03004545

REC-10723140750

Reference: NRC Materials License 19-08330-02

Dear Sir or Madam:

This letter is to request that the NRC amend the above referenced license issued by NRC to the AFRRRI to reflect the appointment of Mr. Charles Woodruff as our Radiation Safety Officer (RSO). With the recommendation of the Radioisotope and X-Ray Safety Subcommittee of the AFRRRI Radiation Safety Committee, I have appointed Mr. Woodruff to serve as RSO, pending NRC approval. Mr. Woodruff's curriculum vitae is attached for your consideration.

Mr. Woodruff has 16 years of experience as a health physicist in the U.S. Navy, as well as 7 years of experience as a health physicist in the Department of Defense. He has served as the Radiation Safety Officer on two permits that are under the Navy's Master's Material License. As an instructor, Mr. Woodruff has trained over 1000 students a year worldwide on the medical effects of ionizing radiation.

Thank you for your prompt attention to this request. The AFRRRI point of contact for this correspondence is Mr. Charles Woodruff, Radiation Safety Officer, (301) 295-9135, email Charles.woodruff@usuhs.edu.

Sincerely,

L. Andrew Huff
Colonel, USAF, MC, SFS
Director, AFRRRI

Enclosures:

NRC Form 313
CV – Woodruff

584433

NRC FORM 313

U.S. NUCLEAR REGULATORY COMMISSION

APPROVED BY OMB: NO. 3150-0120

EXPIRES: 05/31/2015

(03-2014)
10 CFR 30, 32, 33, 34
35, 36, 37, 39, and 40**APPLICATION FOR MATERIALS
LICENSE**

Estimated burden per response to comply with this mandatory collection request: 4.3 hours. Submittal of the application is necessary to determine that the applicant is qualified and that adequate procedures exist to protect the public health and safety. Send comments regarding burden estimate to the FOIA, Privacy, and Information Collections Branch (T-5 F53), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by internet e-mail to Infocollections.Resource@nrc.gov, and to the Desk Officer, Office of Information and Regulatory Affairs, NEOB-10202, (3150-0120), Office of Management and Budget, Washington, DC 20503. If a means used to impose an information collection does not display a currently valid OMB control number, the NRC may not conduct or sponsor, and a person is not required to respond to, the information collection.

INSTRUCTIONS: SEE THE APPROPRIATE LICENSE APPLICATION GUIDE FOR DETAILED INSTRUCTIONS FOR COMPLETING APPLICATION. SEND TWO COPIES OF THE ENTIRE COMPLETED APPLICATION TO THE NRC OFFICE SPECIFIED BELOW. *AMENDMENTS/RENEWALS THAT INCREASE THE SCOPE OF THE EXISTING LICENSE TO A NEW OR HIGHER FEE CATEGORY WILL REQUIRE A FEE.

APPLICATION FOR DISTRIBUTION OF EXEMPT PRODUCTS FILE APPLICATIONS WITH:

OFFICE OF FEDERAL & STATE MATERIALS AND
ENVIRONMENTAL MANAGEMENT PROGRAMS
DIVISION OF MATERIALS SAFETY AND STATE AGREEMENTS
U.S. NUCLEAR REGULATORY COMMISSION
WASHINGTON, DC 20555-0001

ALL OTHER PERSONS FILE APPLICATIONS AS FOLLOWS:**IF YOU ARE LOCATED IN:**

ALABAMA, CONNECTICUT, DELAWARE, DISTRICT OF COLUMBIA, FLORIDA, GEORGIA,
KENTUCKY, MAINE, MARYLAND, MASSACHUSETTS, NEW HAMPSHIRE, NEW JERSEY,
NEW YORK, NORTH CAROLINA, PENNSYLVANIA, PUERTO RICO, RHODE ISLAND, SOUTH
CAROLINA, TENNESSEE, VERMONT, VIRGINIA, VIRGIN ISLANDS, OR WEST VIRGINIA,

SEND APPLICATIONS TO:

LICENSING ASSISTANCE TEAM
DIVISION OF NUCLEAR MATERIALS SAFETY
U.S. NUCLEAR REGULATORY COMMISSION, REGION I
2100 RENAISSANCE BOULEVARD, SUITE 100
KING OF PRUSSIA, PA 19406-2713

IF YOU ARE LOCATED IN:

ILLINOIS, INDIANA, IOWA, MICHIGAN, MINNESOTA, MISSOURI, OHIO, OR WISCONSIN,
SEND APPLICATIONS TO:

MATERIALS LICENSING BRANCH
U.S. NUCLEAR REGULATORY COMMISSION, REGION III
2443 WARRENVILLE ROAD, SUITE 210
LISLE, IL 60532-4352

ALASKA, ARIZONA, ARKANSAS, CALIFORNIA, COLORADO, HAWAII, IDAHO, KANSAS,
LOUISIANA, MISSISSIPPI, MONTANA, NEBRASKA, NEVADA, NEW MEXICO, NORTH
DAKOTA, OKLAHOMA, OREGON, PACIFIC TRUST TERRITORIES, SOUTH DAKOTA, TEXAS,
UTAH, WASHINGTON, OR WYOMING,

SEND APPLICATIONS TO:

NUCLEAR MATERIALS LICENSING BRANCH
U.S. NUCLEAR REGULATORY COMMISSION, REGION IV
1600 E. LAMAR BOULEVARD
ARLINGTON, TX 76011-4511

PERSONS LOCATED IN AGREEMENT STATES SEND APPLICATIONS TO THE U.S. NUCLEAR REGULATORY COMMISSION ONLY IF THEY WISH TO POSSESS AND USE LICENSED MATERIAL IN STATES SUBJECT TO U.S. NUCLEAR REGULATORY COMMISSION JURISDICTIONS.

1. THIS IS AN APPLICATION FOR (Check appropriate item)☐

A. NEW LICENSE

☒

B. AMENDMENT TO LICENSE NUMBER

19-08330-02

☐

C. RENEWAL OF LICENSE NUMBER

2. NAME AND MAILING ADDRESS OF APPLICANT (Include ZIP code)

Armed Forces Radiobiology Research Institute (AFRRI)
8901 Wisconsin Avenue, Building 42
Bethesda, Maryland 20889-5603

3. ADDRESS WHERE LICENSED MATERIAL WILL BE USED OR POSSESSED

8901 Wisconsin Avenue, Buildings 42-48
Bethesda, Maryland 20889-5603

4. NAME OF PERSON TO BE CONTACTED ABOUT THIS APPLICATION

Charles Woodruff

BUSINESS TELEPHONE NUMBER

3012959135

BUSINESS CELLULAR TELEPHONE NUMBER

3013120796

BUSINESS EMAIL ADDRESS

charles.woodruff@usuhs.edu

SUBMIT ITEMS 5 THROUGH 11 ON 8-1/2 X 11" PAPER. THE TYPE AND SCOPE OF INFORMATION TO BE PROVIDED IS DESCRIBED IN THE LICENSE APPLICATION GUIDE.

5. RADIOACTIVE MATERIAL

a. Element and mass number; b. chemical and/or physical form; and c. maximum amount which will be possessed at any one time.

6. PURPOSE(S) FOR WHICH LICENSED MATERIAL WILL BE USED.**7. INDIVIDUAL(S) RESPONSIBLE FOR RADIATION SAFETY PROGRAM AND THEIR TRAINING EXPERIENCE.****8. TRAINING FOR INDIVIDUALS WORKING IN OR FREQUENTING RESTRICTED AREAS.****9. FACILITIES AND EQUIPMENT.****10. RADIATION SAFETY PROGRAM.****11. WASTE MANAGEMENT.****12. LICENSE FEES (Fees required only for new applications, with few exceptions*)
(See 10 CFR 170 and Section 170.31)****FEE CATEGORY****AMOUNT
ENCLOSED \$****13. CERTIFICATION. (Must be completed by applicant) THE APPLICANT UNDERSTANDS THAT ALL STATEMENTS AND REPRESENTATIONS MADE IN THIS APPLICATION ARE BINDING UPON THE APPLICANT.**

THE APPLICANT AND ANY OFFICIAL EXECUTING THIS CERTIFICATION ON BEHALF OF THE APPLICANT, NAMED IN ITEM 2, CERTIFY THAT THIS APPLICATION IS PREPARED IN CONFORMITY WITH TITLE 10, CODE OF FEDERAL REGULATIONS, PARTS 30, 32, 33, 34, 35, 36, 37, 39, AND 40, AND THAT ALL INFORMATION CONTAINED HEREIN IS TRUE AND CORRECT TO THE BEST OF THEIR KNOWLEDGE AND BELIEF.

WARNING: 18 U.S.C. SECTION 1001 ACT OF JUNE 25, 1948 62 STAT. 749 MAKES IT A CRIMINAL OFFENSE TO MAKE A WILLFULLY FALSE STATEMENT OR REPRESENTATION TO ANY DEPARTMENT OR AGENCY OF THE UNITED STATES AS TO ANY MATTER WITHIN ITS JURISDICTION.

CERTIFYING OFFICER - TYPED/PRINTED NAME AND TITLE

L. Andrew Huff, Colonel, USAF
Director, AFRRI

SIGNATURE

L. Andrew Huff

DATE

9 July 2014

FOR NRC USE ONLY

TYPE OF FEE	FEE LOG	FEE CATEGORY	AMOUNT RECEIVED	CHECK NUMBER	COMMENTS
			\$		
APPROVED BY				DATE	

CHARLES R. WOODRUFF JR.

charles.woodruff@usuhs.edu

SUMMARY OF QUALIFICATIONS

- **Possess a current Top Secret clearance with SCI eligibility and CNWDI.**
- 16 years experience as a Navy Health Physicist and 7 years as a Department of Defense civilian with a strong background in Weapons of Mass Destruction and Nuclear Weapons accident and incident response.
- Demonstrated ability to plan national level nuclear weapons accident exercises.
- Outstanding instructor/trainer able to effectively communicate with a broad range of individuals from varying backgrounds.
- Radiation Safety Officer on two Navy Radioactive material Permits

ACCOMPLISHMENTS

Consequence Management:

Extensive experience as a senior health physicist on a worldwide deployable nuclear/radiological incident response team, providing initial consequence assessment, recommendations for protective actions for responders and the general public, assessment of field survey and sample data, and advice and assistance in the management of radiologically-compromised victims. Senior radiological subject matter expert on-site at Republican National Convention in 2004.

Planning/Evaluation:

Senior military radiological hazards planner supporting the Defense Threat Reduction Agency's nuclear weapon accident exercise program mandated in the National Security Presidential Directive on Nuclear Command and Control, Safety and Security. Controller/evaluator during numerous U.S. and foreign consequence management and terrorism/counter-terrorism exercises. Inspected, evaluated and recommended changes for the radiation health program at a large multi-service command with multiple locations resulting in no reportable violations during a subsequent Nuclear Regulatory Agency inspection.

Training:

Serve as a primary instructor for the military's only radiation medical effects course, training more than 1000 personnel annually. Updated and developed new core lectures. As Head of the Radiation Health Training Department at Naval Undersea Medical Institute; responsible for all aspects of four courses of instruction in basic radiation health for both officers and enlisted.

Management /Leadership:

Led and mentored a department of seven other officer/senior enlisted personnel achieving 100% promotion of eligible members (4 of 4). Despite being understaffed for almost 9

months while Department Head, accomplished all departmental taskings ahead of schedule during that time period. As Division Officer at Naval Dosimetry Center; responsible for 98% on time delivery rate of \$3.6 million of dosimetry to 380 world-wide sites. As an additional duty; organized the first Auxiliary Security Force at National Naval Medical Center and served as its Officer in Charge for 11 months.

WORK HISTORY

Health Physicist, Military Medical Operations Directorate, Armed Forces Radiobiology Research Institute, Bethesda, MD, 2006 – present
Continue to provide all services as outlined under Assistant Head, Operational Health Physics below.

Assistant Head, Operational Health Physics, Armed Forces Radiobiology Research Institute, Bethesda, MD, 2003-2006
Deploy as a health physics subject matter expert as part of a multi-discipline consequence management advisory team for real world and exercise situations. Provide radiological consequence management training to military healthcare providers, first responders, disaster planner and war fighters. Respond to requests for assistance related to health physics and radiation protection.

Head, Radiation Health, Naval Undersea Medical Institute, Groton, CT, 2000-2003
Led a staff responsible for the radiation health training of all new Radiation Health Officers, Undersea Medicine Officers, Independent Duty Submarine Corpsmen, and Radiation Health Technicians for the Navy. Directed a complete overhaul of the curriculum including the design of a new practical week for one of the courses.

Division Officer, Naval Dosimetry Center, Bethesda, MD, 1997-2000
Led the Dosimetry Processing Division. Delivered and processed approximately 25K dosimeters a month, rewrote key sections of the command's procedures and quality assurance manuals leading to a zero discrepancy outcome during command re-accreditation. Served as Radiation Safety Officer for two Naval Radioactive Material Permits including a special nuclear material permit.

Radiation Physicist, Armed Forces Radiobiology Research Institute, 1993-1997
Coordinated Medical Effects of Nuclear Weapons Course; establishing training schedules, managing a \$150K/year budget, and coordinating all aspects of 20 training courses a year at sites throughout the world. Project Officer for initial Department of Defense depleted uranium (DU) research program to study the effects of DU on humans.

EDUCATION

Completed course work (no thesis) for Masters in Health Physics, Georgetown University
B.S. in Biology, Cleveland State University, [REDACTED]

This is to acknowledge the receipt of your letter application dated

7-7-14, and to inform you that the initial processing which includes an administrative review has been performed.

Amend: 19-08330-02

☐ 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** 584433
When calling to inquire about this action, please refer to this control number.
You may call us on (610) 337-5398, or 337-5260.