



REPLY TO
ATTENTION OF

DEPARTMENT OF THE ARMY
UNITED STATES MILITARY ACADEMY
WEST POINT, NY 10996

Br.2

MADN-PNE (11-9n)

2 August 2010

MEMORANDUM FOR U.S. Nuclear Regulatory Commission, Region 1, Materials Licensing Section, 475 Allendale Rd, King of Prussia, Pennsylvania 19406

SUBJECT: Amendment to US Nuclear Regulatory Commission License SUD-311, Docket No. 040-05828

1. Request that US Nuclear Regulatory Commission License SUD-311 issued to the Department of Physics, US Military Academy, be amended as follows:

a. Designate MAJ Jayna B. Reichert as an Authorized User. The Radiation Safety Committee (RSC) reviewed and approved the training and experience of MAJ Reichert via an e-mail vote on 02 August 2010. See enclosure for MAJ Reichert's training and experience.

b. Remove COL Jeffrey Musk as an Authorized User. COL Musk's no longer works at the United States Military Academy.

2. The United States Military Academy (USMA) is a public undergraduate educational institution, accredited by the Middle States Association of Colleges and Schools, offering programs of instruction leading to the bachelor's degree. The USMA is an activity of the United States Army and is supported by appropriated funds. As such it appears to meet your definition of a "nonprofit educational institution" (10 CFR 171.5). Request that USMA be exempted from any fees for this action.

3. Point of contact for licensing in the Department of Physics is Dr. Daniel Schultz, Radiation Safety Officer, (845) 938-5009, or daniel.schultz@usma.edu.

Encl
MAJ Reichert T&E


RAYMOND C. NELSON
COL, IN USMA

Acting Head of the Department of Physics and
Nuclear Engineering

RECEIVED
AUG 11 11:17

NRC FORM 313
(4-2008)
10 CFR 30, 32, 33,
34, 35, 36, 39, and 40

U.S. NUCLEAR REGULATORY COMMISSION

APPROVED BY OMB: NO. 3150-0120

EXPIRES: 10/31/2008

Estimated burden per response to comply with this mandatory collection request: 4.4 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 Records and FOIA/Privacy Services Branch (T-5 F53), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by internet e-mail to infocollects@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.

APPLICATION FOR MATERIALS LICENSE

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.

APPLICATION FOR DISTRIBUTION OF EXEMPT PRODUCTS FILE APPLICATIONS WITH:

DIVISION OF INDUSTRIAL AND MEDICAL NUCLEAR SAFETY
OFFICE OF NUCLEAR MATERIALS SAFETY AND SAFEGUARDS
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
475 ALLENDALE ROAD
KING OF PRUSSIA, PA 19406-1415

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
612 E. LAMAR BOULEVARD, SUITE 400
ARLINGTON, TX 76011-4125

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 SUD-311
- C. RENEWAL OF LICENSE NUMBER _____

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

United States Military Academy
Department of Physics and Nuclear Engineering
West Point NY 10996-1790

3. ADDRESS WHERE LICENSED MATERIAL WILL BE USED OR POSSESSED

United States Military Academy
Building 753, Bartlett Hall
West Point NY 10996-1790

4. NAME OF PERSON TO BE CONTACTED ABOUT THIS APPLICATION

Dr. Daniel Schultz

TELEPHONE NUMBER

(845) 938-5009

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 (See 10 CFR 170 and Section 170.31)

FEE CATEGORY **Exempt** 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, 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

Raymond C. Nelson, Acting Department Head

SIGNATURE

DATE

2 Aug 10

FOR NRC USE ONLY

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

TRAINING AND RADIOISOTOPE EXPERIENCE

MAJ JAYNA B. REICHERT

1. Education.

B.S. in Environmental Engineering from the United States Military Academy, West Point, NY, 2000.

M.S. in Nuclear Engineering from MIT, Cambridge, Mass, 2009.

2. Training. Training and experience at MIT under the supervision of Dr. Richard Lanza included safety procedures and shielding requirements for high energy X-rays, gamma sources, and some high activity beta emitters used in medical radiation imaging.

Category A: Radiation Protection Principles

Category B: Characteristics of Ionizing Radiation

Category C: Units of Radiation Dose and Quantities

Category D: Radiation Detection Instrumentation

Category E: Biological Hazards of Exposure to Radiation

Category F: Hands-on Use of Radioactive Materials

<i>CATEGORY</i>	<i>LOCATION OF TRAINING</i>	<i>DATE/DURATION</i>	<i>TYPE OF TRAINING</i>
A, B, C, D, E, F	D/Physics, US Military Academy, West Point, NY	1998-2000	Classes & Laboratory
A, B, C, D, E, F	Department of Nuclear Engineering, MIT	2007-2009	Classes, Laboratory, and Research
A, B, C, D, E, F	D/Physics, US Military Academy, West Point, NY	2009 - present	On the job, Classes, & Laboratory

3. Experience with Isotopes

<i>ISOTOPE</i>	<i>MAXIMUM ACTIVITY</i>	<i>DATE/DURATION</i>	<i>TYPE OF EXPERIENCE</i>
Uranium	2500 kg	1998-2000	Light Water Moderated Subcritical Assembly in USMA Lab
Tc-99	50 mCi	2007-2009	Calibration of Radiation Equipment and Backscatter Experiments, MIT Research
Co-57	50 mCi	2007-2009	Calibration of Radiation Equipment and Backscatter Experiments, MIT Research
Am-241	10 mCi	2007-2009	MIT, Lab Studies
Various isotopes with atomic numbers 1 through 95	Nominal activity	1998-2000, 2007-2009, 2009-Present	Check Sources

This is to acknowledge the receipt of your letter application dated

8/2/10, and to inform you that the initial processing which includes an administrative review has been performed.

Amendment (SUD-311) (04005828)
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** 573309.
When calling to inquire about this action, please refer to this control number.
You may call us on (610) 337-5398, or 337-5260.