



REPLY TO
ATTENTION OF

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

MADN-PNE

17 March 2021

MEMORANDUM FOR U.S. Nuclear Regulatory Commission - Region I, ATTN: LAT,
2100 Renaissance Blvd., Suite 100, King of Prussia, PA 19406-2713

SUBJECT: Amendment to US Nuclear Regulatory Commission License BML 31-02102-02, Docket No. 030-00897

1. Request that US Nuclear Regulatory Commission License BML 31-02102-02 issued to the Department of Physics and Nuclear Engineering, US Military Academy, be amended as follows:

a. Designate LTC William Koch as an Authorized User. The Radiation Safety Committee (RSC) reviewed his training and experience and approved him on 16 March 2021. See enclosure 2 for his training and experience.

b. Remove MAJ Andrew Wilhelm as an Authorized User. He will be departing the Department this summer and has said that he no longer requires access to our licensed sources.

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 meets the definition of a "nonprofit educational institution" (10 CFR 171.5) and should be exempted from any fees (10 CFR 171.11(b)(1)).

3. Point of contact for licensing in the Department of Physics is Dr. Daniel Schultz, Radiation Safety Officer, (216) 905-2066, or daniel.schultz@westpoint.edu.

Encl

1. NRC Form 313
2. LTC Koch T&E

JOHN P. HARTKE
COL, PR, USMA

Head of the Department of Physics and
Nuclear Engineering

REC RG 103-22-21 PM0158

MADN-PNE

SUBJECT: Amendment to US Nuclear Regulatory Commission License BML 31-02102-02, Docket No. 030-00897

TRAINING AND RADIOISOTOPE EXPERIENCE
WILLIAM L. KOCH

Education.

B.A. in Physics from the United States Military Academy, West Point, NY, [REDACTED]

M.S. in Physics from MIT, Cambridge, Mass, [REDACTED]

Training. Training and experience at MIT under the supervision of Dr. Peter Fisher included safety procedures and shielding requirements for high energy electron beams. Additional training and experience with radiation detection equipment at MIT under Professor Areg Danagoulian.

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

CATEGORY	LOCATION OF TRAINING	DATE/DURATION	TYPE OF TRAINING
A, B, C, D, E, F	Department of Physics, MIT	[REDACTED]	Classes & Laboratory
A, B, C, D, E, F	D/Physics and Nuclear Engineering, West Point, NY	[REDACTED]	Classes & Laboratory
A, B, C, D, E, F	D/Nuclear Science and Engineering, MIT	[REDACTED]	Classes and Laboratory

Experience with Isotopes

ISOTOPE	MAXIMUM ACTIVITY	DATE/DURATION	TYPE OF EXPERIENCE
AmBe	10mCi	[REDACTED]	Neutron detection experiment
Cf-252	1mCi	[REDACTED]	Neutron detection experiment
Am-241	10mCi	[REDACTED]	Detector Calibration
Fe-55	1 μ Ci	[REDACTED]	Detector Calibration
Na-22	1 μ Ci	[REDACTED]	Compton Scatter Experiment
AmBe	10mCi	[REDACTED]	Detector Calibration
Am-241	10mCi	[REDACTED]	Detector Calibration

NRC FORM 313
(05-2012)
10 CFR 30, 32, 33,
34, 35, 36, 39, and 40

U.S. NUCLEAR REGULATORY COMMISSION

APPROVED BY OMB: NO. 3150-0120

EXPIRES: (05/31/2015)

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 Information Services Branch (T-5 F53), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by Internet e-mail to InfoCollects.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.

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:

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 31-02102-02

☐ 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
Room 480, Bartlett Hall, Building 753
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 B. Schultz

BUSINESS TELEPHONE NUMBER

(845) 938-5009

BUSINESS CELLULAR TELEPHONE NUMBER

BUSINESS EMAIL ADDRESS

daniel.schultz@westpoint.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 (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

SIGNATURE

DATE

John Hartke, Department Head



3/17/2021

FOR NRC USE ONLY

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