



REPLY TO
ATTENTION OF

DEPARTMENT OF THE ARMY
UNITED STATES MILITARY ACADEMY
West Point, New York 10996

MADN-PHYS (385-11m)

15 April 2005

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

040 05828

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

a. Request that COL(R) Brian Moretti be designated as the Radiation Safety Officer in place
of MAJ Robert Prins. COL(R) Moretti has a Ph.D. in Nuclear Engineering from Rensselaer
Polytechnic Institute and has been a member of the faculty in the Department of Physics since
1997 and has served as an Authorized User during that time. Dr. Moretti's document of training
and experience with radioactive sources is attached. Dr. Moretti is familiar with all NRC
requirements for this position.

b. Request that LTC Jeffrey Musk be designated as an Authorized User. LTC Musk has a
Ph.D. in plasma physics from Cornell University and has been a member of the faculty in the
Department of Physics since 2004. LTC Musk's document of training and experience with
radioactive sources is attached. LTC Musk is familiar with all NRC requirements for this
position.

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 bachelors 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 COL Ed Naessens, (845) 938-
3354.

2 Encls

[Signature]
RAYMOND J. WINKEL, Jr.
COL, PR
Head of the Department of Physics

05 APR 25 P 2:19

RECEIVED
REGION 1

136935

NMSS/RGNI MATERIALS-002

TRAINING AND RADIOISOTOPE EXPERIENCE

Brian E. Moretti

Education.

B.S. in physics from United States Military Academy, West Point, NY 1976.
 ME in engineering physics from University of Virginia, Charlottesville, VA 1984.
 Ph.D. Nuclear Engineering and Science from Rensselaer Polytechnic Institute, Troy, NY 1996.

Training. Training and experience at USMA under the supervision of COL Robert Cherry included calibration procedures and radiation safety procedures and requirements.

Category A: Principles and Practice of Radiation Protection

Category B: Radioactivity Measurement Standardization and Monitoring

Category C: Mathematics and Calculations Basic to the Use and Measurement of Radioactivity

Category D: Biological Effects of Radiation

Category E: Radioactive Waste Disposal

<i>CATEGORY</i>	<i>LOCATION OF TRAINING</i>	<i>DATE/DURATION</i>	<i>TYPE OF TRAINING</i>
A,B,C,D,E	Department of Nuclear Engineering, Rensselaer Polytechnic Institute, NY	1993-1997	Classes/Laboratory Experience
A,B,C,D	Department of Nuclear Engineering and Engineering Physics, University of Virginia, VA	1982-1984	Classes/Laboratory Experience
A,B,C,D	United States Military Academy	1974-1976; 1984-1987 and 1997-present	Class/Experiments

Experience with Isotopes

<i>ISOTOPE</i>	<i>TYPE OF EXPERIENCE</i>	<i>MAXIMUM ACTIVITY</i>	<i>DURATION OF EXPERIENCE</i>
Uranium	Light Water Moderated Subcritical Assembly	2500 kg	1974-1976; 1984-1987 and 1997-present
Any byproduct material with atomic numbers 1-91	Sealed Sources	Not to exceed 10 mCi/source and 200 mCi total	1974-1976; 1984-1987 and 1997-present
Cesium 137	Sealed Sources	50 mCi total for a single source	1974-1976; 1984-1987 and 1997-present
Plutonium 239	Sealed solid neutron sources (Monsanto)	80 grams total in 5 sealed containers; 1000 mCi each	1974-1976; 1984-1987 and 1997-present
Americium 241	Sealed Source	10 mCi	1974-1976; 1984-1987 and 1997-present
Cadmium 109	Sealed Source	25 mCi	1974-1976; 1984-1987 and 1997-present
Iron 55	Sealed Source (Isotope Products Laboratories Mdl AN-55-25)	25 mCi	1974-1976; 1984-1987 and 1997-present

TRAINING AND RADIOISOTOPE EXPERIENCE

Jeffrey H. Musk

Education.

B.S. in engineering physics from University of Maine, Orono, ME 1986.

M.S. in nuclear engineering from M.I.T., Cambridge, MA 1988.

M.S. in nuclear science from Cornell University, Ithaca, NY 2003.

Ph.D. in nuclear science from Cornell University, Ithaca, NY 2004.

Training. Training and experience at the Armed Forces Radiobiology Institute (AFRRI), Bethesda, MD, under the supervision of LTC Eric Daxon (USA) and CAPT Eric Kearsley (USN) and at the United States Military Academy (USMA), West Point, NY, under LTC Thomas Rosener (USA) included dosimetry procedures, calibration procedures and radiation safety procedures and requirements.

Category A: Principles and Practice of Radiation Protection

Category B: Radioactivity Measurement Standardization and Monitoring

Category C: Mathematics and Calculations Basic to the Use and Measurement of Radioactivity

Category D: Biological Effects of Radiation

Category E: Radioactive Waste Disposal

<i>CATEGORY</i>	<i>LOCATION OF TRAINING</i>	<i>DATE/DURATION</i>	<i>TYPE OF TRAINING</i>
A,B,C	Department of Physics, University of Maine, Orono, ME	1982-1986	Classes/Laboratory Experience
A,B,C,D	Department of Nuclear Engineering, M.I.T., Cambridge, MA	1986-1988	Classes/Laboratory Experience
A,B,C,D,E	AFRRI, Bethesda, MD	1990-1993	Short Courses/Laboratory Experience/Experiments
A,B,C,D	USMA, West Point, NY	1995-1998 and 2004-present	Class/Experiments
A,C	Cornell University, Ithaca, NY	2001-2004	Class

Experience with Isotopes

<i>ISOTOPE</i>	<i>TYPE OF EXPERIENCE</i>	<i>MAXIMUM ACTIVITY</i>	<i>DURATION OF EXPERIENCE</i>
Uranium	Light Water Moderated Subcritical Assembly	2500 kg	1995-1998 and 2004-present
Any byproduct material with atomic numbers 1-91	Sealed Sources	Not to exceed 10 mCi/source and 200 mCi total	1986-1988; 1990-1993; 1995 - 1998; 2004-present
Cesium 137	Sealed Sources, Cs-137 irradiators	Sealed sources less than 50 mCi; ~5 Ci total for M.I.T. irradiator	1986-1988; 1990-1993; 1995 - 1998; 2004-present (sealed sources); 1986-1988; 1990-1993 Cs-137 irradiators
Plutonium 239	Sealed solid neutron sources (Monsanto)	80 grams total in 5 sealed containers; 1000 mCi each	1995-1998 and 2004-present

LTC Jeffrey H. Musk, Training and Radioisotope Experience

Americium 241	Sealed Source	10 mCi	1995-1998 and 2004-present
Cadmium 109	Sealed Source	25 mCi	1995-1998 and 2004-present
Iron 55	Sealed Source (Isotope Products Laboratories Mdl AN-55-25)	25 mCi	1995-1998 and 2004-present
Cobalt 60	Theratron, AFRRRI large scale irradiator	> 200,000 Ci	1990-1993

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

15 APRIL 2005, and to inform you that the initial processing which includes an administrative review has been performed.

AMEND. 31-02102-02 & SUP-311
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 136934/136935
When calling to inquire about this action, please refer to this control number.
You may call us on (610) 337-5398, or 337-5260.

BETWEEN: : (FOR LFMS USE)
 : INFORMATION FROM LTS
 : -----
 :
 License Fee Management Branch, ARM : Program Code: 11300
 and : Status Code: 0
 Regional Licensing Sections : Fee Category: EX 2C
 : Exp. Date: 20111130
 : Fee Comments: 170.11(A) (4)
 : Decom Fin Assur Reqd: N
 : ::::::::::::::::::::::::::::::::::::::

LICENSE FEE TRANSMITTAL

A. REGION I

1. APPLICATION ATTACHED
 Applicant/Licensee: ARMY, DEPARTMENT OF THE
 Received Date: 20050425
 Docket No: 4005828
 Control No.: 136935
 License No.: SUD-311
 Action Type: Amendment

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

3. COMMENTS
REF. 136934
 Signed W. A. Berkman
 Date 4/29/2005

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 _____