

MATERIALS LICENSE

Pursuant to the Atomic Energy Act of 1954, as amended, the Energy Reorganization Act of 1974 (Public Law 93-438), and Title 10, Code of Federal Regulations, Chapter I, Parts 30, 31, 32, 33, 34, 35, 39, 40 and 70, and in reliance on statements and representations heretofore made by the licensee, a license is hereby issued authorizing the licensee to receive, acquire, possess, and transfer byproduct, source, and special nuclear material designated below; to use such material for the purpose(s) and at the place(s) designated below; to deliver or transfer such material to persons authorized to receive it in accordance with the regulations of the applicable Part(s). This license shall be deemed to contain the conditions specified in Section 183 of the Atomic Energy Act of 1954, as amended, and is subject to all applicable rules, regulations and orders of the Nuclear Regulatory Commission now or hereafter in effect and to any conditions specified below.

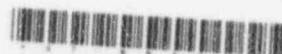
Licensee		In accordance with application dated March 12, 1997	
1. Department of the Army		3. License number SUC-1391 is amended in its entirety to read as follows:	
2. Tooele Army Depot Tooele, Utah 84074-5008		4. Expiration date March 31, 2003	
		5. Docket or Reference No 040-08779	
6. Byproduct, source, and/or special nuclear material	7. Chemical and/or physical form	8. Maximum amount that licensee may possess at any one time under this license	
A. Uranium (Depleted in uranium-235)	A. Depleted uranium alloy component installed in military ammunition	A. 3,500,000 kilograms	
B. Uranium (Depleted in uranium-235)	B. Shielding material	B. 200 kilograms	
9. Authorized use:			
A. For handling, storage, and demilitarization of munitions containing depleted uranium; storage of bulk depleted uranium; and shielding in radiographic exposure devices.			
B. For use as shielding in a Varian Linetron 200 linear accelerator.			

CONDITIONS

10. A. Licensed material specified in Item 6.A. shall be used only at Tooele Army Depot, Tooele, Utah.
- B. Licensed material specified in Item 6.B. shall be used at the Pueblo Depot Activity, Pueblo, Colorado.
11. Licensed material shall be used by, or under the supervision of, Jay L. Bishop, Ph.D., or Harold K. Oliver.
12. The Radiation Safety Officer for this license is Jay L. Bishop, Ph.D.

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MATERIALS LICENSE
SUPPLEMENTARY SHEET

License Number

SUC-1391

Docket or Reference Number

040-08779

Amendment No. 05

13. Except as specifically provided otherwise in this license, the licensee shall conduct its program in accordance with the statements, representations, and procedures contained in the documents, including any enclosures, listed below. The Nuclear Regulatory Commission's regulations shall govern unless the statements, representations, and procedures in the licensee's application and correspondence are more restrictive than the regulations.

- A. Application dated July 23, 1992
- B. Application dated March 12, 1997

FOR THE U.S. NUCLEAR REGULATORY COMMISSION

Date

MAR 25 1997

By

Livian H. Campbell

Nuclear Materials Licensing Section
Region IV
Arlington, Texas 76011

ML40



UNITED STATES
NUCLEAR REGULATORY COMMISSION

REGION IV

611 RYAN PLAZA DRIVE, SUITE 400
ARLINGTON, TEXAS 76011-8064

March 25, 1997

Department of the Army
ATTN: Thomas Turner
SIOTE-IR
Director of Risk Management
Tooele Army Depot
Tooele, Utah 84074

SUBJECT: LICENSE AMENDMENT

Please find enclosed License No. SUC-1391. You should review this license carefully and be sure that you understand all conditions. If you have any questions, you may contact the reviewer who signed your license at 817-860-8143.

NRC expects licensees to conduct their programs with meticulous attention to detail and a high standard of compliance. Because of the serious consequences to employees and the public which can result from failure to comply with NRC requirements, you must conduct your program involving radioactive materials in accordance with the conditions of your NRC license, representations made in your license application, and NRC regulations. In particular, note that you must:

1. Operate in accordance with NRC regulations 10 CFR Part 19, "Notices, Instructions and Reports to Workers: Inspection and Investigations," 10 CFR Part 20, "Standards for Protection Against Radiation," and other applicable regulations.
2. Possess radioactive material only in the quantity and form indicated in your license.
3. Use radioactive material only for the purpose(s) indicated in your license.
4. Notify NRC in writing of any change in mailing address (no fee required if the location of radioactive material remains the same).
5. Request and obtain written NRC consent before transferring your license or any right thereunder, either voluntarily or involuntarily, directly or indirectly, through transfer of control of your license to any person or entity. A transfer of control of your license includes not only a total change of ownership, but also a change in the controlling interest in your company whether it is a corporation, partnership, or other entity. In addition, appropriate license amendments must be requested and obtained for any other planned changes in your facility or program that are contrary to your license or contrary to representations made in your license application, as well as supplemental correspondence thereto, which are incorporated into your license. A license fee may be charged for the amendments if you are not in a fee-exempt category.

6. Maintain in a single document decommissioning records that have been certified for completeness and accuracy listing all the following items applicable to the license:
 - Onsite areas designated or formerly designated as restricted areas as defined in 10 CFR 20.3(a)(14) or 20.1003.
 - Onsite areas, other than restricted areas, where radioactive materials in quantities greater than amounts listed in Appendix C to 10 CFR 20.1001-20.2401 have been used, possessed, or stored.
 - Onsite areas, other than restricted areas, where spills or other unusual occurrences involving the spread of contamination in and around the facility, equipment, or site have occurred that required reporting pursuant to 10 CFR 30.50(b)(1) or (b)(4), including areas where subsequent cleanup procedures have removed the contamination.
 - Specific locations and radionuclide contents of previous and current burial areas within the site, excluding radioactive material with half-lives of 10 days or less, depleted uranium used only for shielding or as penetrators in unused munitions, or sealed sources authorized for use at temporary job sites.
 - Location and description of all contaminated equipment involved in licensed operations that is to remain onsite after license termination.
7. Submit a complete renewal application with proper fee, or termination request at least 30 days before the expiration date on your license. You will receive a reminder notice approximately 90 days before the expiration date. Possession of radioactive material after your license expires is a violation of NRC regulations.
8. Request termination of your license if you plan to permanently discontinue activities involving radioactive material.

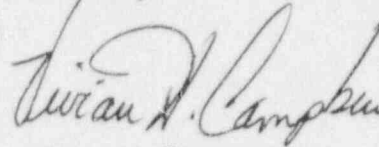
You will be periodically inspected by NRC. Failure to conduct your program in accordance with NRC regulations, license conditions, and representations made in your license application and supplemental correspondence with NRC will result in enforcement action against you. This could include issuance of a notice of violation; imposition of a civil penalty; or an order suspending, modifying, or revoking your license as specified in the "General Statement of Policy and Procedure for NRC Enforcement Actions" (Enforcement Policy), 60 FR 34381, June 30, 1995.

Department of the Army

-3-

Thank you for your cooperation.

Sincerely,

A handwritten signature in cursive script, reading "Vivian H. Campbell". The signature is written in dark ink and is positioned above the printed name and title.

Vivian H. Campbell
Senior Health Physicist
Nuclear Materials Licensing Branch

Docket: 040-08779

License: SUC-1391

Control: 466337

Enclosures: As stated

MAR 26 1997

Department of the Army

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DOCUMENT NAME: P:\Tooele.mlc

To receive copy of document, indicate in box: "C" = Copy without enclosures "E" = Copy with enclosures "N" = No copy

RIV:NMLB	N	RIV:					
VHCampbell	<i>mk</i>						
3/25/97							

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DEPARTMENT OF THE ARMY

TOOELE ARMY DEPOT
TOOELE, UTAH 84074-5000



REPLY TO
ATTENTION OF

SIOTE-IR

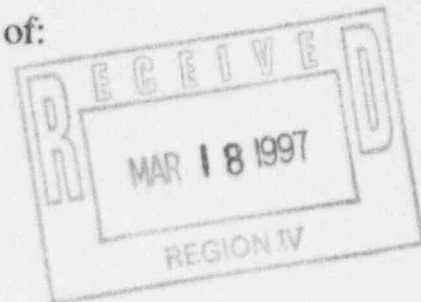
12 March 1997

MEMORANDUM FOR U. S. Nuclear Regulatory Commission Region IV,
Material Radiation Protection Section, 611 Ryan Plaza Drive, Suite 400,
Arlington, Texas 76011, ATTN Ms. Vivian Campell

SUBJECT: Amendment to Material License SUC-1391

1. The individual responsible for the Radiation Protection Program at Tooele Army Depot is Mr. Jay L. Bishop, Ph.D.
2. Request removal of Mr. Bryce Christiansen as Radiation Protection Officer (RPO) from current License SUC-1391 as shown in Amendment No. 4 thereto, and appointment of Mr. Bishop as such. Enclosed is information regarding Mr. Bishop's education, training and experience.
3. Please forward amended license to the attention of:

Director of Industrial Risk Management
ATTN: SIOTE-IR (Mr. Simon)
Building 8
Tooele Army Depot
Tooele, Utah 84074
4. The point of contact and alternate RPO is Mr. Bruce Simon, Safety Engineer, CML (801) 833-2713 or DSN 790-2713.



FOR THE COMMANDER:

Thomas A. Turner

THOMAS TURNER

Director of Industrial Risk Management

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APPLICATION FOR MATERIAL LICENSE

ESTIMATED BURDEN PER RESPONSE TO COMPLY WITH THIS INFORMATION COLLECTION REQUEST: 325 HRS. FORWARD COMMENTS REGARDING BURDEN ESTIMATE TO THE INFORMATION AND RECORDS MANAGEMENT BRANCH (MNBB 7714) U.S. NUCLEAR REGULATORY COMMISSION, WASHINGTON, DC 20555, AND TO THE PAPERWORK REDUCTION PROJECT (3150-0120) OFFICE OF MANAGEMENT AND BUDGET, WASHINGTON, DC 20503

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.

APPLICATIONS FOR DISTRIBUTION OF EXEMPT PRODUCTS FILE APPLICATIONS WITH:

U.S. NUCLEAR REGULATORY COMMISSION
DIVISION OF INDUSTRIAL AND MEDICAL NUCLEAR SAFETY, NMSS
WASHINGTON, DC 20555

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

CONNECTICUT, DELAWARE, DISTRICT OF COLUMBIA, MAINE, MARYLAND, MASSACHUSETTS, NEW HAMPSHIRE, NEW JERSEY, NEW YORK, PENNSYLVANIA, RHODE ISLAND, OR VERMONT, SEND APPLICATIONS TO:

U.S. NUCLEAR REGULATORY COMMISSION, REGION I
NUCLEAR MATERIALS SAFETY SECTION B
475 ALLENDALE ROAD
KING OF PRUSSIA, PA 19406

ALABAMA, FLORIDA, GEORGIA, KENTUCKY, MISSISSIPPI, NORTH CAROLINA, PUERTO RICO, SOUTH CAROLINA, TENNESSEE, VIRGINIA, VIRGIN ISLANDS, OR WEST VIRGINIA, SEND APPLICATIONS TO:

U.S. NUCLEAR REGULATORY COMMISSION, REGION II
NUCLEAR MATERIALS SAFETY SECTION
101 MARIETTA STREET, SUITE 2800
ATLANTA, GA 30333

IF YOU ARE LOCATED IN:

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

U.S. NUCLEAR REGULATORY COMMISSION, REGION III
MATERIALS LICENSING SECTION
799 ROOSEVELT ROAD
GLEN ELLYN, IL 60137

ARKANSAS, COLORADO, IDAHO, KANSAS, LOUISIANA, MONTANA, NEBRASKA, NEW MEXICO, NORTH DAKOTA, OKLAHOMA, SOUTH DAKOTA, TEXAS, UTAH, OR WYOMING, SEND APPLICATIONS TO:

U.S. NUCLEAR REGULATORY COMMISSION, REGION IV
MATERIAL RADIATION PROTECTION SECTION
611 RYAN PLAZA DRIVE, SUITE 1000
ARLINGTON, TX 76011

ALASKA, ARIZONA, CALIFORNIA, HAWAII, NEVADA, OREGON, WASHINGTON, AND U.S. TERRITORIES AND POSSESSIONS IN THE PACIFIC, SEND APPLICATIONS TO:

U.S. NUCLEAR REGULATORY COMMISSION, REGION V
NUCLEAR MATERIALS SAFETY SECTION
1450 MARIA LANE, SUITE 210
WALNUT CREEK, CA 94596

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 JURISDICTION.

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

- ☒ A. NEW LICENSE
☐ B. AMENDMENT: LICENSE NUMBER SUC 1391
☐ C. RENEWAL OF: LICENSE NUMBER _____

2. NAME AND MAILING ADDRESS OF APPLICANT (Include Zip Code)

3. ADDRESS(ES) WHERE LICENSED MATERIAL WILL BE USED OR POSSESSED.

TOOELE ARMY DEPOT
TOOELE, UTAH 84094

4. NAME OF PERSON TO BE CONTACTED ABOUT THIS APPLICATION

BRUCE SIMON

TELEPHONE NUMBER

(801) 833-2713

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 or isotope, 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 AND EXPERIENCE.

8. TRAINING FOR INDIVIDUALS WORKING IN OR FREQUENTING RESTRICTED AREAS.

9. FACILITIES AND EQUIPMENT.

10. RADIATION SAFETY PROGRAM.

11. WASTE MANAGEMENT.

12. LICENSEE FEES (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, 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.

SIGNATURE—CERTIFYING OFFICER

TYPED/PRINTED NAME

TITLE

DATE

Bruce Simon

BRUCE SIMON

SAFETY
ENGINEER

12 MARCH 97

FOR NRC USE ONLY

TYPE OF FEE	FEE LOG	FEE CATEGORY	COMMENTS
AMOUNT RECEIVED	CHECK NUMBER		

APPROVED BY

DATE

RESUME, Jay L. Bishop, PhD, January 1997

FIELDS OF EXPERTISE

Chemistry, environmental regulations, chemical engineering, scientific consulting, radiation safety, alternate energy sources, foods, munitions, precious metals, medical research & production.

SCIENTIFIC REPUTATION AND BACKGROUND

Biography listed over 30 years in "Who's Who in the West" and "American Men and Women of Science," and for 10 to 20 years in many other biographical indexes such as "Who's Who in Technology."

General accomplishments:

Manager, advisor: industrial and military chemistry, hazardous waste, environmental regulations.
Over 50 publications and patents in chemistry, engineering and munitions.
Professional translator of documents into English from 30 languages.
Public lecturer, and instructor: science, religion, history, foods and health.
Many awards for outstanding management and process designs.
Consultant 25 years to government and industry, expert scientific court witness.

Some specific accomplishments:

Designed computer programs to calculate chemical and thermodynamic parameters for treatment of hazardous waste in compliance with environmental regulations.
Designed and contracted fabrication of a chemical analyzer which identifies chemicals present in glass containers within 10 seconds at a distance of 100 feet from the instrument with a remote laser probe, without opening the containers. Designed new chemical analysis methods and manufacturing processes for precious metals refining industry, synthesis of anticancer agents, and evaluation of general samples submitted for chemical analysis. Designed many new processes for demilitarization of munitions.

WORK EXPERIENCE

Chemical engineer and scientific advisor for US government, civil service, stationed at Tooele Army Depot, Utah, 16 years, to assist military installations throughout USA obtain environmental permits, negotiate chemical and regulatory affairs with Environmental Protection administrators, design and test demilitarization processes.

Industrial engineer private industry 11 years to design and manage precious metals production, alternate energy processes, air monitoring and laboratory analysis of environmental samples.

Chemical and scientific consultant 25 years. Senior chemist 5 years in pharmaceutical mfg. Synthesizer of new anticancer agents, lecturer, 9 years with Arizona State Univ, Traveling Science Inst, Univ of Utah.

SPECIFIC MUNITION RADIATION PROJECTS conducted by Jay L. Bishop

Jan to Mar 1989, made complete evaluation of subjects related to the demilitarization of munitions which contain depleted uranium (DU). The report was issued on 22 Mar 1989. It included extensive discussion of the general scientific basis of DU production and uses, radiation modes, types of dangers to humans, safety and protection measures, mechanism, permits, and how to set up work stations for the productive demilitarization of DU munitions.

Aug 1993, scored 97% in a two-week course on Munitions Radiation Training. Course was conducted by US Army Defense Ammunition Center and School at Savanna IL.

1989 to 1995, as Tooele Army Depot Scientific Advisor, advised and assisted with outlines, replies and calculations related to radiation safety as called upon.

