DEPARTMENT OF THE ARMY
HEADQUARTERS, U.S. ARMY LABORATORY COMMAND
2800 POWDER MILL RD., ADELPHI, MD 20783-1145

REPLY TO
ATTENTION OF

AMCSF-P/86-0186

AMSLC-SO

18 November 1986

SUBJECT: Amendment to Nuclear Regulatory Commission License SUB-238

THRU: Commander
U.S. Army Materiel Command
ATTN: AMCSF-P
5001 Eisenhower Avenue
Alexandria, VA 22333-0001

24 Nov 86

TO: U.S. Nuclear Regulatory Commission
Region I
631 Park Avenue
King of Prussia, Pennsylvania 19406

1. Reference letter, U.S. Army Materials Technology Laboratory, SLCMT-DD, 13 Nov 86, subject: Amendment to Nuclear Regulatory Commission Licenses SUB-238, BML No 29-01010-04, and SNM-244, and DA Authorization No A-20-20-01 (enclosure 1.

2. Request that Nuclear Regulation Commission (NRC) Source License SUB-238 be expeditiously amended. Changes from previous license are summarized below:

a. Deletion of Mr. William A. Lorenzen as Radiation Protection Officer; change Mr. Charles E. Dady and Dr. Alfred Broz from Alternate Radiation Protection Officers to Radiation Protection Officers (Item 8). Resumes of training experience of Mr. Dady and Dr. Broz are attached at enclosure 2.

b. Changes to membership of Radiation Control Committee (Item 8). Resumes are attached at enclosure 3.

3. Point of contact for this action is Mr. David Griffis, RPO, AV 290-3446.

4. LABCOM - Providing Leaders the Decisive Edge.

FOR THE COMMANDER:

FEE EXEMPT

3 Encls

THOMAS E. BOWER
Chief, Safety Office

CF:

Dir, MTL, ATTN: SLCMT-DD

ML10

106500

"OFFICIAL RECORD COPY"

DEPARTMENT OF THE ARMY
U.S. ARMY LABORATORY COMMAND
MATERIALS TECHNOLOGY LABORATORY
WATERTOWN, MASSACHUSETTS 02172-0001

REPLY TO
ATTENTION OF

SLCMT-DD

13 November 1986

SUBJECT: Amendment to Nuclear Regulatory Commission Licenses SUB-238, BML No. 20-01010-04, and SNM-244 and DA Authorization No. A-20-10-01

THRU: Commander
U.S Army Laboratory Command
ATTN: AMSLC-SO
2800 Powder Mill Road
Adelphi, MD 20783-1145

TO: Commander
U.S. Army Materiel Command
ATTN: AMCSF-P
5001 Eisenhower Avenue
Alexandria, VA 22333-0001

1. Due to a recent vacancy in the Health Physics personnel, request subject licenses and authorization be temporarily updated to reflect an interim change until the Health Physics position is permanently filled.

2. Acting Radiation Protection Officers:

Mr. Charles E. Dady
Dr. Alfred Broz

3. Current membership of the Radiation Control Committee is as follows:

a. Dr. Gordon A. Bruggeman, Chairman
b. Mr. Terry Gaston, Secretary
c. Dr. Alfred Broz
d. Mr. Charles E. Dady
e. Mr. Louis Farese
f. Mr. Forrest Burns
g. Mrs. Louise Miller, RN
h. Mr. Herbert Whitney

4. Resumes of training and experience of personnel listed above are fu..ished by the enclosures.

5. LABCOM/MTL - Providing Leaders the Decisive Edge.

JOHN E. KEMPSTER
Colonel, Av
Deputy Director, Commander

8 Encls

cf:
Chairman, RCC
Ch, Legal Office

Encl)

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Mr. Charles E. Dady

1970 to Present	Chemist, Army Materials and Mechanics Research Center, Watertown, MA
1962 to 1970	Chief, Radiological Safety Office, Army Materials Research Agency, Watertown MA
1959 to 1962	Chief, Radiological Safety Office, Ordnance Materials Research Office (OMRO, Watertown, MA)
1957 to 1959	Physical Chemist, Atomic Energy Division, OMRO; on detached duty at Oak Ridge National Laboratory
1954 to 1957	Analytical Chemist, Anaytical Chemistry Branch, Watertown Arsenal Laboratories
1952 to 1954	Employed as a chemist in industry

Education and Training

1952	B.A., Chemistry, Boston University
1954 to 1957	Graduate Courses in Chemistry, Boston College
1957 to 1958	Vanderbilt University, Graduate School, USAEC courses in radiological physics
1958 to 1959	Attended Oak Ridge School of Reactor Technology (ORSORT). All prescribed courses, except engineering, were taken.

Pertinent Experience

1958	Field work in Health Physics Division, Oak Ridge National Laboratory (ORNL)
1958 to 1959	Assigned to Health Physics Division, ORNL
1959 (Summer)	ORNL Reactor Division for reactor operations training
1961	Licensed by A.E.C. to operate the MTL Nuclear Reactor
1969	Certified as a Health Physicist
1970 to 1973	Alternate Radiological Protection Officer

Encl 2

Dr. Alfred Broz

1982 to Present	Chief, Nondestructive Evaluation Branch (NDEB), Army Materials and Mechanics Research Center, Watertown, MA
1980 to 1982	Physicist, NDEB, Army Materials and Mechanics Research Center, Watertown, MA
1974 to 1980	Physical Scientist, Aberdeen Proving Ground, MD

Education and Training

1965	B.S., Physics, College of St. Thomas, St. Paul,MN
1968	M.S., Physics, SD School of Mines& Tech. Rapid City, South Dakota
1973	Physics, Phd., Notre Dame, IN
1979	Radiological Safety Course, USAOCCS, APC, MD
1974	Industrial and Flash X-Ray Operations Training, APG, MD

Pertinent Experience

1974 to 1980	Responsible for industrial and Flash X-Ray Operations, Materiel Testing Directorate, APG, MD.
1979 to 1980	Radiation Protection Officer, Materiel Testing Directorate, APG, MD. Dutys included monitoring of depleted uranium projectile firings.
1979 to 1980	Appointed Alternate Radiation Protection Officer, Member and 1st Vice Chairperson Radiation Protection Committee, Aberdeen Proving Ground, Maryland.
1980 to Present	As Chief, NDE Branch, responsible for direction of Industrial X-Ray Facility (2.0 Mev), CS-137 Radiographic Facility, Industrial X-Ray Units (100 kv to 3 mv).

Dr. Gordon Bruggeman

1981 to Present	Chief, Prototype Development Division
1968 to 1981	Supervisory Metallurgist in charge of physical metallurgy within the Metals Division of AMMRC. Appointed Chairman of Radiation Control Comittee, 11 September 1969 under Special Orders No. 73.
1962 to 1968	Metallurgist with duties as principal investigator on various research projects.
1961 to 1962	2nd - 1st Lieutenant, U.S. Army stationed at Aberdeen Proving Ground and Watertown Arsenal Laboratories.
1960 to 1961	Senior Physical Metallurgist, Man Labs, Inc., working as principal investigator on metallurgical research projects.
1957 to 1960	Research Assistant, Mass. Institute of Technology, Metallurgy Department
1955 to 1957	Instructor, Metallurgy Department, Mass. Institute of Technology
Education and Training	1955 B.S. Metallurgy - Mass. Institute of Technology
	1960 SC.D. Metallurgy - Mass. Institute of Technology
Pertinent Experience	Research associated with SC.D. thesis involved diffusion studies using radio-isotopes (1957-60). Prior to start of this work, M.I.T. Safety Office required attendance at informal interview and briefing on radiological health hazards and safety procedures.
	Research at AMMRC (1961-75) continued various diffusion studies utilizing radioisotope techniques.

Encl 3

Cpt Louis J. Farese

1982 to Present	Member, X-ray and Neutron Analysis Group, Materials Characterization Division, Army Materials and Mechanics Research Center, Watertown, MA
1981 to 1982	Chief, Radiological Division, Professional Training Department, Directorate of Training and Doctrine, U.S. Army Chemical School, Ft. McClellan, Alabama
1978 to 1981	Instructor, Radiological Division, U.S. Army Ordnance and Chemical Center and School, Aberdeen Proving Ground, MD

Education and Training

1975	B.S., Biology, Providence College
1978	Radiological Safety Course, U.S. Army Ordnance and Chemical Center and School Aberdeen Proving Ground, MD
1979	Laser-Microwave Hazards Course, U.S. Army Environmental Hygiene Agency Edgewood Arsenal, MD
1982 to Present	Graduate courses in Radiologial Science at University of Lowell

Pertinent Experience

Was responsible for operation of the Radiological Training Laboratory at the U.S. Army Chemical School, providing instruction in the areas of radiological safety and radiological laboratory procedures, and certifying personnel as Radiological Protection Officers (RPO).

Mr. Forrest Burns

1981 to Present	In charge of AMMRC Neutron Accelerator Facility. Participated in use of various reactor facilities for neutron activation research.
1958 - 1961	In charge of radiochemistry laboratory for NASA at Plumbrook Reactor, Sandusky, Ohio.
Education and Training	1956 B.S. Chemistry, Berea College 1958 M.S. Chemistry, University of Kentucky
Pertinent Experience	Research using many different radioisotopes for materials characterization. Both thermal and fast neutron sources were used from reactors and accelerators.

TERRY GASTON

AUG 83 to Present	Chief, Safety and Radiation Protection Office US Army Materials Technology Laboratory
JAN 83 - AUG 83	Safety Manager US Army Natick Labs
AUG 82 - JAN 83	Industrial Hygienist US Army, Fort Devens
APR 81 - AUG 82	Industrial Hygiene Chemist Western Area Radiation Lab, TVA
JAN 79 - APR 81	Industrial Hygiene Chemist OSHA, Department of Labor
JAN 77 - JAN 79	Forensic Chemist DEA, Department of Justice
DEC 75 - JAN 77	Forensic Chemist BNDD/DEA, Department of Justice
JUL 70 - DEC 74	Forensic Chemist BNDD/DEA, Deparment of Justice

Education and Training

1969 Bachelors Degree - Chemistry
University of Northern IOWA
Cedar Fall, Iowa

1981-1982 Helped design shieldiong for high energy source 1000 curies; calibrated and used health physics radiation monitoring equipment; trained on radiation counting lab equipment and techniques.

1983 Laser Safety Course
Field Safety Activity
Charlestown, Indiana

1984 Radiation Safety course
Harvard School of Public Health

1984 Radiation Safety Management Course
Field Safety Activity
Charlestown, Indiana

1983-1985 Assistant Radiation Protection Officer and Safety Manager responsible for the MTL Radiological Protection Program

Mrs. Louise Miller, RN

1973 - Present	Occupational Health Nurse, U.S. Army Medical Activity Health Clinic, Army Materials and Mechanics Research Center
1979	Certified as an Occupational Health Nurse.
1979	Industrial Toxicology II course, Southeastern, Massachusetts University
1979	Industrial Health and Hygiene course, Mass. Safety Council, Boston, MA.

Mr. Herbert W. Whitney

1983 to present -	Chief, Fabrication Branch/Section, MTL
1972 to 1983 -	Principal Investigator on projects having component parts made from uranium and/or beryllium.
1962 to 1972 -	Lead technician and supervisor in the uranium/beryllium laboratories. Designed, set up and operated equipment for a functioning laboratory.
1958 to 1962 -	Lead technician on the P.R.D.C. and S.R.O. reactor rods for nuclear applications while working at Nuclear Metals Inc. of Concord. Also held the record for a beryllium extrusion to a "U" shape for the Northrup Corp. of California.

Education & Training

1965 to 1975 -	Elements of Metallurgy (ASM) courses held at AMMRC.
1962 to 1965 -	University Extension Courses at M.I.T. on many phases of Metallurgy.

Pertinent Experience

1958 to present -	Many phases from preparation to final product or end item using depleted uranium and beryllium, plus enriched uranium for the country of France in the form of swaged rods.