

*Bell*



DEPARTMENT OF THE ARMY  
HEADQUARTERS US ARMY MATERIEL DEVELOPMENT AND READINESS COMMAND 6443  
5001 EISENHOWER AVE., ALEXANDRIA, VA. 22333

DRGSF-P/75-0077

9 February 1976

Director  
Nuclear Material Safety and Safeguards  
US Nuclear Regulatory Commission  
ATTN: Materials Branch (Mr. Jack M. Bell)  
Washington, DC 20555

Dear Mr. Bell:

Reference is made to letter, US Nuclear Regulatory Commission, dated December 23, 1975.

Forwarded is the additional information requested in referenced NRC letter in support of US Army Electronics Command request for renewal and amendment of Byproduct Material License Number 29-01022-06.

Sincerely,

*Walter G. Queen*  
WALTER G. QUEEN  
Chief  
Safety Office

Incl  
As stated

Cy Furn:  
HQDA (DASG-HGH-E) WASH DC 20310  
Dir, DARCOM FSA, Charlestown, IN 47111

Information in this record was deleted  
in accordance with the Freedom of Information  
Act, exemptions 6  
FOIA 2006-0338

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INSPECTION AND ENFORCEMENT

*HH/9*

0443

AMSEL-RD-H (6 Jan 76) (1st Ind)  
SUBJECT: Renewal and Amendment of Byproduct Material License 29-01022-06

Headquarters, US Army Electronics Command, Fort Monmouth, New Jersey 07703  
4 FEB 1976

TO: Commander, US Army Materiel Development and Readiness Command,  
ATTN: AMCSF, Alexandria, Virginia 22333

1. As requested in paragraph 1 of inclosed letter a list of persons who serve on the ECOM Ionizing Radiation Control Committee is inclosed as Incl 2. Training and experience of each member is also attached, except that training and experience of Stanley B. Potter, Charles Pullen and Richard Rast were included with the application. Chairman of the Committee is Stanley B. Potter. Dr. Walter S. McAfee is the Commander's Representative on the committee.
2. ECOMR 385-9 and RD&E Radiological Safety Procedures have been reviewed for conformance with Title 10, Code of Federal Regulations, and with each other. Corrections of inconsistencies encountered are attached as Incl 3.
3. In reference to paragraph 3, inclosed letter, the intent of Appendix C to ECOMR 385-9 is for it to apply to ECOM facilities where ever they might be located. The responsibility and procedures for evaluating and approving or disapproving the use of radioactive materials at locations other than Fort Monmouth are the same as for locations at Fort Monmouth except that when the location is under the jurisdiction of another military commander, the approval of that commander must be obtained before the IRC Committee will act on the request. All rules and regulations pertinent to all locations must be complied with, and the IRC Committee will not approve an application until convinced that such is the case.

FOR THE COMMANDER:

3 Incl  
Added 2 incl  
as

*Walter S. McAfee*  
 WALTER S. MCAFEE  
 Commander's Representative  
 IRC Committee

RECEIVED  
 FEB 10 1976  
 10 21



DEPARTMENT OF THE ARMY  
HEADQUARTERS UNITED STATES ARMY MATERIEL COMMAND  
5001 EISENHOWER AVE., ALEXANDRIA, VA. ~~22304~~ 22333

0443

S-6 February 1976

AMGSF-P/75-0077

6 January 1976

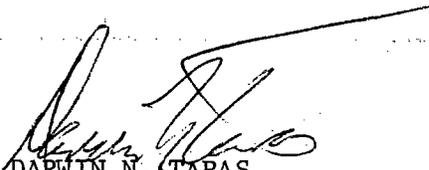
SUBJECT: Renewal and Amendment of Byproduct Material License 29-01022-06

Commander  
US Army Electronics Command  
ATTN: AMSEL-SF-H  
Fort Monmouth, NJ 07703

Forwarded as inclosure is Nuclear Regulatory Commission letter, 23 December 1975, requesting additional information in support of subject application. This additional information is expected to reach this headquarters on or before 6 February 1976.

FOR THE COMMANDER:

1 Incl  
as

  
DARWIN N. TARAS  
Chief, Health Physics  
Safety Office

SF-262

UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D. C. 20555

DEC 23 1975

Department of the Army  
ATTN: Mr. Darwin N. Taras  
Chief, Health Physics  
Safety Office  
Headquarters United States Army Materiel  
Command  
5001 Eisenhower Avenue  
Alexandria, Virginia 22333

Gentlemen:

We are evaluating your September 4, 1975 application for renewal and amendment of your byproduct material License 29-01022-06 covering activities at Fort Monmouth, New Jersey; Gateway National Park, New Jersey; Lakehurst Naval Air Station, New Jersey; Tobyhanna Army Depot, Tobyhanna, Pennsylvania; Fort Huachuca, Arizona; Fort Hood, Texas; and the Nevada Test Site. The following information will help us in the continued review of the application:

1. The names and training and experience of each person who is to serve on your "ECOM Ionizing Radiation Control Committee". This should include alternate as well as primary members. Also, please indicate which of these individuals is the Chairman of the Committee.
2. Clarification of inconsistencies between ECOMR 385-9 and the "Research, Development, and Engineering Directorate (RD and ED), Radiological Safety Procedures" submitted with your application. For example, ECOMR 385-9, Appendix A includes a "Radiation Exposure Guide" table. Exposure guides are also given in Chapter 3, Page 9 of the RD and ED procedures. Those given in Chapter 3 of the RD and ED procedures do not seem consistent with those given in ECOMR 385-9 nor do they seem consistent with the requirements and limitations of Title 10, Code of Federal Regulations, Part 20. Both documents should be reviewed for consistency and conformance to Commission regulations.
3. Clarification of the applicability of Appendix C to ECOMR 385-9. Several statements in Appendix C indicate that this Appendix applies only to activities "on Fort Monmouth" if this is the case, please establish the responsibility and procedures for evaluating and approving or disapproving the use of radioactive materials at locations other than Fort Monmouth.

Sincerely,

  
Jack M. Bell  
Radioisotopes Licensing Branch  
Division of Fuel Cycle and  
Material Safety

C443

ECOM IONIZING RADIATION CONTROL COMMITTEE MEMBERS

CPT William R. Chambers

Louis E. Kaplan

Dr. Horst H. Kedesdy

Dr. Stanley Kronenberg

Dr. Walter S. McAfee

Stanley B. Potter

Charles F. Pullen

Richard Rast

J. A. Robertson

LTC H. L. Sanders

Jack H. Sievers

Bernard M. Savaiko

Ronald J. Verba

James P. Weeks

*Incl 2*



DEPARTMENT OF THE ARMY  
HEADQUARTERS, US ARMY MEDICAL DEPARTMENT ACTIVITIES  
FORT MONMOUTH, NEW JERSEY 07703

0443

AHDD-PM

12 Aug 74

SUBJECT: Resume of William R. Chambers

Mr. Potter  
Radiation Protection Officer  
Bldg 55 Evans

NAME: Chambers, William R.

RANK: 1LT

SSN:

TITLE: Environmental Sciences Officer

ORGANIZATION: Health and Environment Services, MEDDAC  
Fort Monmouth, New Jersey 07703

EDUCATION: BS - Biology / East Tennessee State University

MSEH - Environmental Health / East Tennessee State University

FORMAL TRAINING IN RADIATION-None

ON THE JOB TRAINING IN RADIATION-None

ACTUAL USE OF RADIOISOTOPE-None

*William R. Chambers*

WILLIAM R. CHAMBERS

1LT, MSC

Environmental Sciences Officer

Ex 6

NAME: LOUIS LEO KAPLAN

POSITION: Deputy Director, R&D Technical Support Activity  
Research, Development & Engineering Directorate  
US Army Electronics Command  
Fort Monmouth, New Jersey

EDUCATION: BA in Physics, Brooklyn College, Brooklyn, N.Y.  
Executive Technical Development Program, 160 hours,  
Polytechnic Institute of Brooklyn (1967)  
Special Courses and/or training for radiation:  
Nuclear Engineering Course, 40 hours, Stevens  
Institute of Technology (1958)  
Nuclear Physics - one course at Brooklyn College (1936)  
Formal Training: (See above)

ACTUAL USE OF ISOTOPES: (a) Supervised hardening program for electron tubes  
1959 - 1962 at USAECOM. Tests conducted at pulsed  
nuclear reactors and at linear accelerators. 8 - 10  
personnel involved plus contract supervision of 3 - 5  
contracts.

(b) USAECOM representative on DASA TREE subcommittee  
to establish and supervise DASA sponsored projects for  
nuclear hardening and weapons effects on all types of  
electronic parts 1958 - 1963.

(c) Acted as a consultant to DOD during the successful  
justification of the pulsed nuclear reactor now located  
at Aberdeen with appearances before Congressional  
Military Committee.

(d) Deputy Surety Officer USAECOM appointed 22 July  
1966 - to date.

Ex 6

Incl 1

0443

**Resume of Dr. Horst H. Kedesdy**

**Position: Leader, Luminescence Phenomena Research Team**

**Title: Senior Research Scientist**

**Education: B.S. in Physics, Technical University of Berlin, Germany**

**M.S. in Physics, Technical University of Berlin, Germany**

**PhD in Physics, Technical University of Berlin, Germany**

Ex 6

**1937 - 1937 - Research Assistant, Technical University of Berlin, Germany, electron optics and microscopy**

**1939 - 1947 - Max Planck Institute, Berlin, Germany, solid state, X-ray and electron diffractions**

**1947 - 1960 - US Army Electronics Laboratories, Fort Monmouth, N.J. X-ray and electron diffraction semi-conductors, ferromagnetic materials.**

**1960 - 1971 - Director, Institute for Exploratory Research Division E, Solid State Physics**

**1971 - present - Leader, Luminescence Phenomena Research Team, Beam & Plasma Technical Area, ET&DL**

TRAINING & EXPERIENCE WITH RADIATION & RADIOACTIVE MATERIAL  
OF

Dr. Stanley Kronenberg *SK*

TITLE: Supv. Research Physicist

POSITION: Chief, Nuclear Hardening Technical Area  
Electronics Technology & Devices Laboratory  
USAECOM

EDUCATION: PhD in Physics, University of Vienna, *Ex b*  
Dr. Kronenberg did his doctorate in theoretical nuclear physics but participated actively during his study in the experimental work performed at the Institute for Radium Research in Vienna. After graduation he was employed by the General Hospital in Vienna to study radioisotopes in connection with medicine, therapeutic and diagnostic applications of X-rays and corpuscular rays.

Since 1953 he has been employed by the US Army Electronics Command and worked since that time with the nuclear physics group in Fort Monmouth, NJ. Research has been mainly in radiation dosimetry, nuclear effects testing, and basic research in nuclear and radiation physics.

He has published numerous papers in the above fields and holds several US patents in his area of interest. He has also participated in numerous nuclear weapon tests as project officer.

## ACTUAL USE OF RADIOISOTOPES:

Isotope	Max Amt	Place	Duration	Type of Use
$^3\text{H}$	100 C	ECOM	1960	source assembly
$^{22}\text{Na}$	several mCi	"	1962	research
$^{32}\text{P}$	traces	"	1953-Pres	dosimetry
$^{60}\text{Co}$	3500 Ci	" & Vienna	1960-Pres	research
Kr	1 Ci	"	1963	research
Ag	traces	"	1955-Pres	dosimetry
$^{90}\text{Sr}$	1 Ci	ECOM & Vienna	1950,1958	source assembly
$^{198}\text{Au}$	traces	" "	1955-Pres	dosimetry
$^{137}\text{Cs}$	150 Ci	" "	1958-Pres	research
Th All isotopes of the chain	several Kg	"	1970-Pres	research
$^{235}\text{U}$	several Kg	"	1958-Pres	Use of burst reactors in research
Pu	several Kg	"	1958-Pres	Use of burst reactors in atom bombs

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Th All isotopes of the chain	several Kg	"	1970-Pres	research
$^{235}\text{U}$	several Kg	"	1958-Pres	Use of burst reactors in research
Pu	several Kg	"	1958-Pres	Use of burst reactors in atom bombs

TRAINING & EXPERIENCE WITH RADIATION & RADIOACTIVE MATERIAL  
OF

Dr. Walter S. McAfee *W.S. McAfee*

POSITION: ECOM Commander's designated committee representative  
and  
Scientific Adviser to the Director of Research,  
Development & Engineering and of Laboratories  
US Army Electronics Command, Ft Monmouth, NJ

EDUCATION:

B.S.	Mathematics	Wiley College,
M.S.	Physics	The Ohio State Univ
Ph.D.	Physics	Cornell Univ,

*Ex 6*

Radio Astronomy, Harvard Univ, 1957-58

RADIATION TRAINING AND EXPERIENCE:

a. Dosimetry in X-ray Lab, including measurement of the roentgen by use of a free-air chamber. Also Nuclear Physics Lab. Training in safe handling of radioactive materials, evaluation of dose and dose rate, etc.

b. Worked in the nucleonics program of this Command from August 1948 into October 1953. Also planned initial radiation and calibration facilities.

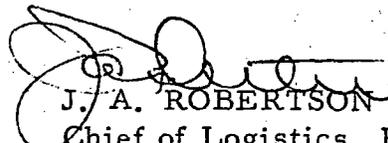
AMSEL-GG-SL (7 Sep 72)  
SUBJECT: Request for Information

0443

TO Combined Nuclear Effects, Nuclear Hardening TA AMSEL-TL-NC	FROM J. A. Robertson Logistics Br RDTSA	DATE 21 Sep 72	CMT 2 51196
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The following information is furnished in compliance with Comment 1:

- a. Position & Title: Chief of Logistics, R&D
- b. Education: Civilian: Graduate of commercial college  
(2 years)
- Military: Army Administration  
Depot Operation  
Signal Supply  
Army Logistics Management
- c. Special courses and/or training in radiation: None
- d. Formal training in radiation: None
- e. Actual use of radioisotopes: None

  
J. A. ROBERTSON  
Chief of Logistics, R&D

# DISPOSITION FORM

For use of this form, see AR 340-15; the proponent agency is The Adjutant General's Office.

REFERENCE OR OFFICE SYMBOL

SUBJECT

AHDD-X

RESUME OF TRAINING

TO AMSEL-RD-H  
EVANS AREA

FROM X-Ray Clinic

DATE 19 Aug. 74

CMT 1

Resume of Training for LTC Sanders, Chief Radiology Services, Patterson Army Hospital.

- (1) University of Kansas, Lawrence Kansas, [ ] BA Ex 6
- (2) University of Kansas School of Medicine, Kansas City, Kansas [ ] MD
- (3) Internship Tripler Army Hospital, Honolulu Hawaii 1966-67
- (4) Residency in Diagnostic Radiology, Letterman Army Medical Center, San Francisco July 71-June 74.
- (5) Written boards in diagnostic Radiology passed June 74.

*H Sanders*

LTC Sanders  
Chief Radiology Services

RESUME

RADIATION TRAINING AND EXPERIENCE

NAME & GRADE: Jack H. Sievers, GS-12

TITLE: Safety Specialist, Headquarters & Installation Support Activity (HISA)  
Fort Monmouth, New Jersey

RADIATION ASSIGNMENT: Radiological Protection Officer, HISA

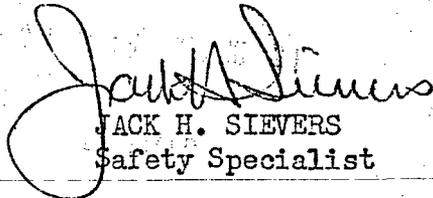
EDUCATION: High School

RADIATION TRAINING:

1. Radiological Safety Course - USA Chemical School, Fort McClellan, Alabama - 160 hours- February, 1960. Subjects included: Hazards of Radioactive Material, Shielding, Fallout, Use of Radiac Instruments and Radioactive Monitoring.
2. Chemical, Biological and Radiological Officers Course - USA Chemical School, Fort McClellan, Alabama - 160 hours - August, 1961. Subjects included: CBR Protective Measures, Radiological Monitoring, Fallout Patterns, Decontamination and Radiological Shelters.
3. Nuclear Safety Extension Course - USA Ordnance School, Aberdeen Proving Ground, Maryland - June, 1963. Subjects included: Effects of Nuclear Detonation, Fallout Patterns and Radiation Monitoring.

GENERAL EXPERIENCE: Twenty-two years as Safety Specialist at Sioux Army Depot, Sidney, Nebraska; Martin Company, Denver, Colorado; First US Army, Governor's Island, New York and USA Electronics Command, Fort Monmouth, New Jersey.

RADIATION EXPERIENCE: Radiological Protection Officer, Sioux Army Depot, 1959-1965. Sources controlled limited to radium test samples for radiac instruments.

  
JACK H. SIEVERS  
Safety Specialist

**EXPERIENCE - Bernard M. Savaiko  
Safety Director  
USAECOM**

EX 6

Graduated from Columbia University in [ ] and has a B.S. degree  
in Industrial Engineering.

Presently employed with USAECOM as Safety Director.

He has had years of safety experience, 4 years as an Air Force  
Safety Officer with U.S. Steel and 11 years at Fort Monmouth, 3 of which  
he has received on-the-job training experience with radiation safety  
and measurements.

**TRAINING & EXPERIENCE WITH RADIATION & RADIOACTIVE MATERIEL**

OF

RONALD J. VERBA

**POSITION OR TITLE:**

Radiological Protection Officer for Maintenance Directorate.

Technical Manuals Writer & Editor.

**EDUCATION:**

2 years Business Management at Brookdale College.

**TRAINING & EXPERIENCE  
IN RADIATION:**

Seven years writing manuals on the use, handling, and maintenance of Radiation Detection Equipment and Calibration Equipment.

On several task forces for radiation equipment.

Originator of TB 750-237, Identification of Radioactive Items in the Army Supply System. Active in this publication from 1966 to the present.

Worked directly with ECOM Safety Officer on letters, documents, and vehicles to assure safe handling, marking, and identification of ECOM items in the field.

**ACTUAL USE OF RADIO-ISOTOPES:**

Experience with the following instrument calibrators and check sources (sealed sources):

<u>TYPE NUMBER</u>	<u>RADIOISOTOPE</u>	<u>MAXIMUM AMOUNT</u>	<u>LOCATION</u>
TS-784/PD	Sr-90	100 mCi	ECOM
AN/UDM-2	Sr-90	120 mCi	ECOM
AN/UDM-1	Co-60	10 Ci	ECOM
AN/UDM-1A	Cs-137	120 Ci	ECOM
MX-1083	Co-60	7 $\mu$ Ci's	ECOM
MX-7338/PDR-27R	Kr-85	5 mCi	ECOM

PERSONAL RESUME OF JAMES P. WEEKS  
January, 1976

PERSONAL

Name: James Patrick Weeks  
Address: [Redacted] Ex b  
Telephone: [Redacted]  
Birthdate: [Redacted]  
Marital Status: [Redacted]

EDUCATION

1968 to present University of Pennsylvania -  
Master of Science Degree in Physics awarded May, [Redacted] Ex b  
Thesis: Conduction Properties of Organic Solids  
Honors: Grade Point Index 3.86 (of 4.00)  
48 Credit Hours

1964 to 1968 Villanova University -  
Bachelor of Science Degree in Physics awarded cum laude [Redacted] Ex b  
Activities and Honors: Physics Club, Delta Epsilon Sigma Honor Society  
Grade Point Index. 3.64 (of 4.00)  
143 Credit Hours

OTHER

FORMAL

TRAINING

Short Courses -  
Public Health Service - Basic Radiological Health  
Occupational Radiation Protection

University of Rochester - Contemporary Optics

PROGRAMMING

LANGUAGES

Fortran, PL-1

TECHNICAL

PAPERS

Frankford Arsenal Letter Report N7000-30-22:  
"Use of Radioactive Specimens in testing of  
Automated Inspection Equipment"

"Liquid Scintillation Counting Systems" - Paper  
delivered to Army Materiel Command Radiation  
Protection Officers Workshop, April 1974

EXPERIENCE WITH DEVICES PRODUCING IONIZING RADIATION:

<u>Device</u>	<u>Location</u>	<u>Duration</u>
Subcritical reactor	Villanova University	2 Weeks
X-ray generators	Public Health Service	4 Weeks
Tandem accelerator	University of Pennsylvania	1 Week
5 Megawatt Pool Reactor	Industrial Reactor Laboratories	2 Years

TRAINING SPECIFIC TO RADIATION PROTECTION:

Training consisted of undergraduate and graduate Nuclear Physics courses, graduate courses in high energy physics and advanced laboratory procedures, two courses from the Public Health Service (listed) and on-the-job training at Frankford Arsenal including assignments at the Industrial Reactor Laboratories, Plainsboro, NJ.

Training included radiation measurement, standardization and monitoring techniques and instrumentation, calculations pertinent to radiation protection as well as biological implications of radiation exposure.

PROFESSIONAL SOCIETIES

Franklin Institute  
Optical Society of America

EXPERIENCE

1968 to  
1975

Physicist, Optical Laboratory, US Army Frankford Arsenal

Responsibilities: Act as project engineer in planning, performing, and directing applied research and development on optical and radioactive instruments, components, and devices. Initiate new designs; update existing systems. Specify test methods, procedures and instrumentation. Supervise assembly and testing. Act as Nuclear Regulatory Commission Prime user on Projects involving radioactive materials.

Experience includes work assignments in thin film technology, photometry and radiometry, illumination engineering, optical metrology, the development of laser ranging systems, and the development of radioactive self-luminous sources.

1976 to  
present

Health Physicist, US Army Electronics Command, Safety Office

EXPERIENCE WITH RADIOISOTOPES:

<u>Location</u>	<u>Isotope</u>	<u>Maximum Amounts</u>	<u>Duration</u>	
Frankford Arsenal	H-3	Kilo Curies	7 Yrs	
	PM-147	10's of Curies	7 Yrs	
	KR-85	Curies	7 Yrs	
	ZN-65	mCi's	2 Yrs	
	CU-64	Curies	2 Yrs	
	Th-232	mCi's	1 Yr	
	Ra-226	mCi's	6 Mos	
	Activated Glass	mCi's	2 Yrs	
	University of Pennsylvania	MN-64	All	6 Mos
		CO-57	Millicurie	6 Mos
CS-137		and	6 Mos	
CO-60		Microcurie	6 Mos	
NA-22		Amounts	6 Mos	
Y-88		"	6 Mos	
NA-22		"	6 Mos	
CO-60		"	6 Mos	
Villanova University	Ag-108,110	"	6 Mos	
	P-32	"	6 Mos	
	I-131	"	6 Mos	
Public Health Service (short courses)	Ra <sup>226</sup>	"	4 Weeks	
	Co <sup>60</sup>	"	4 Weeks	
	CS-137	"	4 Weeks	
	Ra D&E	"	4 Weeks	
	AU-198	"	4 Weeks	

## CHANGES TO RD&amp;E RADIOLOGICAL SAFETY PROCEDURES

The following changes are to be made to RD&E Radiological Safety Procedures, attached as inclosure to RDE/L Policy Memorandum Technical No. 1.

Chap 3, para 2(1)(a). Delete 3 and replace with 1.25.

Chap 3, para 2(2)(a). Delete 10 and replace with 7.5.

Chap 3, para 2(3)(a). Delete 25 and replace with 18.75.

Chap 3, para 4, last line. Delete 2 centimeters and replace with 1 centimeter.

Chap 3, para 5, line 6. Delete 2 cm and replace with 1 cm.

Chap 6, para 2c(2), line 2. Delete 3 and replace with 1.25.

0448  
AMSEL-RD-H (6 Jan 76) (1st Ind)

SUBJECT: Renewal and Amendment of Byproduct Material License 29-01022-06

Headquarters, US Army Electronics Command, Fort Monmouth, New Jersey 07703

4 FEB 1976

TO: Commander, US Army Materiel Development and Readiness Command,  
ATTN: AMOSF, Alexandria, Virginia 22333

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FOR THE COMMANDER:

3 Incl  
Added 2 incl  
as

*Walter S. McAfee*  
WALTER S. MCAFEE  
Commander's Representative  
IRC Committee

Department of the Army  
 ATTN: Mr. Darwin W. Taras  
 Chief, Health Physics  
 Safety Office  
 Headquarters United States Army Materiel  
 Command  
 5001 Eisenhower Avenue  
 Alexandria, Virginia 22333

DEC 23 1975

Gentlemen:

We are evaluating your September 4, 1975 application for renewal and amendment of your byproduct material License 29-01022-06 covering activities at Fort Monmouth, New Jersey; Gateway National Park, New Jersey; Lakehurst Naval Air Station, New Jersey; Tobyhanna Army Depot, Tobyhanna, Pennsylvania; Fort Huachuca, Arizona; Fort Hood, Texas; and the Nevada Test Site. The following information will help us in the continued review of the application:

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Sincerely,

Jack M. Bell

Radiation Licensing Branch  
 Division of Fuel Cycle and  
 Material Safety

OFFICE >	ECMS/RIB			
SURNAME >	JMBell:bjp			
DATE >	12/23/75			