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

DRCSF-P/82-0125

12 October 1982

Director  
Nuclear Material Safety and Safeguards  
ATTN: Radioisotopes Licensing Branch  
US Nuclear Regulatory Commission  
Washington, DC 20555



Gentlemen:

Forwarded is US Army Communications-Electronics Command request for amendment to Source Material License Number SMB-1300. This request is to list Barry J. Silber as Radiation Protection Officer and Patricia Ann Elker as Alternate Radiation Protection Officer.

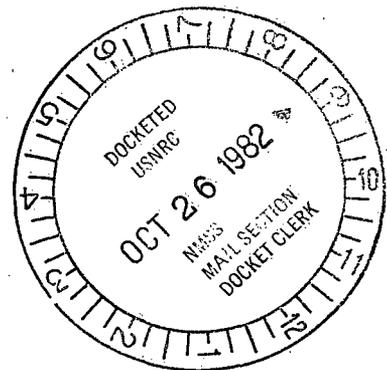
Please acknowledge receipt of correspondence on inclosed DA Form 209 Mail Reply Card.

Sincerely,

DARWIN N. TAKAS  
Chief, Health Physics  
Safety Office

2 Incl  
as

CF:  
HQDA(DASG-PSP-E) WASH DC 20310 2 cys w/incl  
Dir, DARCOM FSA, Charlestown, IN 47111 w/incl



**FEE EXEMPT**

E/19 21370

*Deep*



DEPARTMENT OF THE ARMY  
HEADQUARTERS US ARMY COMMUNICATIONS-ELECTRONICS COMMAND  
AND FORT MONMOUTH  
FORT MONMOUTH, NEW JERSEY 07703

REPLY TO  
ATTENTION OF:

DRSEL-SF-MR

5 OCT 1982

SUBJECT: US Nuclear Regulatory Commission (NRC) License Number SMB-1300

Commander  
US Army Materiel Development and Readiness Command  
ATTN: DRCSF-P  
5001 Eisenhower Avenue  
Alexandria, VA 22333

1. Reference is made to Amendment Number 6 dated 1 April 1982 to subject NRC license and to all amendments issued thereto.
2. Due to changes in Safety Office structure, Mr. Barry J. Silber and Ms. Patricia Ann Elker will now serve in the capacity of Radiation Protection Officer (RPO) and Alternate RPO, respectively, for this command under subject NRC license.
3. Inclosure 1 incorporates the qualifications of Ms. Elker. Mr. Silber's qualifications have been previously provided to you and incorporated into reference 1.

FOR THE COMMANDER:

*Bernard M. Savaiko*

BERNARD M. SAVAIKO  
Chief, Safety Office

1 Incl  
as

PATRICIA ANN ELKER, Health Physicist, US Army Communications-Electronics Command (CECOM), Fort Monmouth, New Jersey

a. Education:

- (1) Rutgers University, New Brunswick, New Jersey  
Presently completing program of graduate study in Radiation Science. Course work has included: Bioinorganic Chemistry; Radiation Physics; Special Topics in Radiologic Health; Laboratory Methods of Radiation Detection; Radiation Chemistry; Radiation Biophysics; Electronics and Instrumentation; Advanced Special Problems; Radiation Dosimetry.
- (2) J.F.K. School of Nuclear Medicine, Edison, New Jersey  
Certificate in Nuclear Medicine Technology, 1976. ARRT, NM-1976, NMTCB-1978. Award: Mallinckrodt Academic Achievement Award.
- (3) Monmouth College, West Long Branch, New Jersey  
BS Degree in Biology, January 1976. Minor - Medical Technology
- (4) Susquehanna University, Selinsgrove, PA  
Biology program 1971-1973.

b. Professional Experience:

- (1) July 1981 - present

Health Physicist, US Army Communications-Electronics Command, Fort Monmouth, NJ.

Responsible for health physics functions in the establishment and implementation of the CECOM Safety Program aimed at establishing life cycle controls of CECOM commodities utilizing radioactive material and ionizing radiation producing devices; responsible for the evaluation of radiological protection programs and radiation facilities to determine their adequacy and to insure compliance with DA Authorizations and NRC Licenses; perform studies and evaluations necessary to minimize the health risks to personnel; prepare and review applications for DA Authorizations and NRC Licenses; establish and maintain radiation protection records and files.

- (2) July 1980 - July 1981

Supervisor, Radioactive Material Section, Radiation Physicist, Department of Environmental Protection (DEP), Bureau of Radiation Protection (BRP) Trenton, NJ.

Responsible for supervision and coordination of the radioactive material (RAM) program. Authorized to approve or reject licenses or amendments for possession and use of RAM after assessment of user qualification, radiation safety program, and compliance with State rules and regulations. Reorganized

program format and developed inspection procedures, forms and criteria. Evaluated and provided recommendations for quality assurance of radio-pharmaceuticals and instruments at facilities. Assigns and trains inspectors for RAM facility program review. Issued letters of non-compliance or compliance resulting from inspection. Performed inspections and violation investigations. Registered NRC licensable materials. Registered accelerators and reviewed radiation safety surveys. Authorized to approve or reject applications for certificates of handling in the transportation of any RAM above 20 curies. State Radiological Assessment Officer on call for nuclear generating station emergency response, and assists in emergency planning. Member of emergency response team with authority to make immediate decisions relative to public health and safety regarding control of radiation. Maintained Bureau's RAM storage area and records of accountability, radiation safety surveys, and compliance with NRC license requirements. Responsible for monthly report and statistic preparation involving RAM users, inspections, violations, NRC registrations, and accelerators. Responded to all inquiries involving RAM or non-ionizing radiations. Developed fee schedule format, and maintained records. Proposed regulations for NJ Administrative Code adoption.

(3) February 1980 - July 1980

Radiation Physicist, DEP, BRP, Trenton, NJ.

Enforced State rules and regulations governing medical and industrial or research radiation producing units. Responsible for compliance testing and evaluation, report preparation, and performance of radiation safety surveys. Authorized to impound non-compliant units preventing usage establishing public and/or occupational safety. Conducted special projects evaluating radiation hazards and development of procedures for control and reduction of unnecessary radiation. Investigated violations and incidents post notification of radiation hazard with authority to establish improved radiation safety requirements. Participated as member of radiation emergency response team.

(4) January 1979 - January 1980

Nuclear Medicine Technologist, St. Peter's Medical Center, New Brunswick, NJ.

Performed diagnostic imaging and evaluation for improved medical diagnosis. Performed quality control and calibration of instrumentation and computer. Responsible for patient orientation to procedures, radiopharmaceutical preparation, dose calculation and assay for intravenous or other approved aseptic method of dose administration. Performed radiation monitoring for safety and regulation compliance evaluation. Responsible for proper radioactive waste disposal compliant with all regulatory agencies and safety standards. Performed sophisticated computer analysis for diagnostic studies. Performed in vivo diagnostic evaluations. Responsible for on call emergency routines.

(5) May 1976 - January 1979

Nuclear Medicine Technologist, Jersey Shore Medical Center,  
Neptune, New Jersey

Same as above, including ultrasound and Doppler technologies  
for diagnostic procedures. Radioimmunoassay for in vitro procedures.  
Responsible for monitoring and maintaining records for therapeutic sealed  
source storage area.

c. Additional Formal Training in Radiation Protection Methods,  
Measurements, Effects:

- (1) Internal Dosimetry for Fixed Nuclear Facilities-Special Training  
Division, Oak Ridge Associated Universities, Oak Ridge, TN,  
September 1981. One week formal course.
- (2) Emergency Response for Nuclear Incidents - Sponsored by the  
Federal Emergency Management Agency at the DOE Nevada Test Site,  
Las Vegas, Nevada, November 1980. Two week formal course.
- (3) Emergency Response - Sponsored by the NJ Bureau of Emergency  
Response at the NJ Bureau of Radiation Protection, Trenton, NJ,  
1980. One week formal course.
- (4) Quality Control in Radiographic Procedures and Processing -  
E.I. duPont Nemours Training Center, 1980. One week  
formal course.
- (5) Quality Control in Nuclear Medicine - Bureau of Radiological  
Health program, sponsored by the NJ State Society of Nuclear  
Medicine at Middlesex General Hospital, New Brunswick, NJ,  
1979. Twelve hours formal training.

d. Experience with Radioactive Materials:

(see attached list)

<u>Isotope</u>	<u>Maximum Amount</u>	<u>Duration of Experience</u>	<u>Type of Use</u>
1. $^{99}\text{Mo}/^{99\text{m}}\text{Tc}$	1.0-3.0 Ci	5 Years	For items 1 through 16, radiopharmaceutical preparation, dose injection, and/or related diagnostic procedures, health physics surveys, wipe test analysis, and instrument calibration.
2. $^{131}\text{I}$	10 mCi	5 Years	
3. $^{75}\text{Se}$	5 mCi	5 Years	
4. $^{67}\text{Ga}$	50 mCi	5 Years	
5. $^{201}\text{Tl}$	30 mCi	5 Years	
6. $^{32}\text{P}$	20 mCi	5 Years	
7. $^{133}\text{Xe}$	100 mCi	5 Years	
8. $^{81}\text{Rb}/^{81\text{m}}\text{Kr}$	25 mCi	2 Years	
9. $^{125}\text{I}$ Sealed Source RIA	50 mCi	5 Years	
10. $^{123}\text{I}$	10 mCi	5 Years	
11. $^{137}\text{Cs}$	500 mCi	5 Years	
12. $^{226}\text{Ra}$	500 mg	5 Years	
13. $^{192}\text{Ir}$	80 Ci	6 months	
14. $^{60}\text{Co}$	100 Ci	1 month	
15. $^{57}\text{Co}$	30 mCi	5 Years	
16. $^{133}\text{Ba}$	10 mCi	5 Years	
17. PuBe		1 month	