



DEPARTMENT OF THE ARMY
HEADQUARTERS, US ARMY ELECTRONICS RESEARCH
AND DEVELOPMENT COMMAND
2800 POWDER MILL RD., ADELPHI, MD 20783

40-8194

DRDEL-SS

23 October 1981

SUBJECT: Change in Radiological Protection Officers

THRU: Commander
US Army Materiel Development and Readiness Command
Attn: DRCSE-P
5001 Eisenhower Avenue
Alexandria, Virginia 22333

JP 26 OCT 81

*See in rm
Comp 11/2/81*

TO: Director
Nuclear Material Safety and Safeguards
Attn: Radioisotopes License Branch
US Nuclear Regulatory Commission
Washington, D.C. 20555

1. Request the following US Army, ERADCOM NRC licenses be amended effective 30 October 1981:

- a. 29-01022-06
- b. 29-01022-07
- c. 29-01022-10
- d. SNM 1323
- e. SMB 1183

2. The amendment is as follows:

a. Delete Mr. Stanley Potter and Mr. Norman Pratt as the Radiation Protection Officers.

b. Add Mr. Steven A. Horne as primary Radiation Protection Officer and Dr. Johnson D. Choppala and Mr. Barry J. Silber as Alternate Radiation Protection Officers.

FEE EXEMPT

CC/B

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DRDEL-SS

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3. The resumes for Mr. Horne and Mr. Silber are contained in the following NRC licenses issued to CECOM:

- a. 29-01022-08
- b. 29-01022-11
- c. 29-01022-12
- d. SUB-1150
- e. SMB-1300
- f. SNM-1327

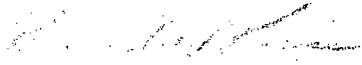
4. The resume for Dr. Choppala is attached.

5. Mr. Horne and Mr. Silber are assigned to U.S. Army, CECOM, Ft. Monmouth, N.J. and will be providing Radiation Protection Officer support while ERADCOM at Ft. Monmouth, N.J. continues to recruit for a qualified Health Physicist. Dr. Choppala is the Health Physicist assigned to HQ, ERADCOM Safety Office, Adelphi, Md. and will also be making frequent visits to Ft. Monmouth to support the Radiation Protection Program. Users authorized by the NRC licenses listed in paragraph 1 are members of ERADCOM at Ft. Monmouth, N.J.

6. Provision of on-site Radiation Protection Officer support has been formalized through letter correspondence between Major General Emmett Paige, Jr., Commander ERADCOM, and Major General Donald M. Babers, Commander CECOM.

FOR THE COMMANDER:

Incl


RONALD W. KAESE
Chief, Safety Office
ERADCOM

Resume of Training and Experience of

Johanson D. Choppala, Ph. D.

1. Educational Background:

		yrs.	
University of Poona, India	1958	4	B.Sc. (Chemistry & Biology)
Howard University, Wash. D.C.	1964	3	M.S. (Radiation genetics)
Howard Universtiy, Wash. D.C.	1967	3	Ph.D. (Radiation genetics)
U.S. Army Chemical School	Feb. 1980	3 weeks	(Radiation Safety)
U.S. Army DARCOM Radiation Safety Workshop	April 1980	1 week	(Radiation Safety)

2. Vocational Experience with Radiation:

1975-80 Howard U. Medical College - Chief, Div. of Radiobiology, Department of Radiation Therapy.

1980-Present U.S. Army ERADCOM Health Physicist

a. Formal Training in Principles and Practices of Radiation Protection:

3 weeks - with U.S. Army ERADCOM at Ft. Monmouth, N.J. Alt RPO, Norman Pratt, October, 1981.

b. Formal Training in Radioactivity Measurement Standardization and Monitoring Techniques and Instruments:

3 weeks - with U.S. Army ERADCOM at Ft. Monmouth, N.J. Alt. RPO, Norman Pratt, October, 1981.

c. Formal Training in Mathematics and Calculations Basic to the Use and Measurement of Radioactivity:

5 years (1975-1980) - with Howard University Medical Center, Wash., D.C.

d. Formal Training in Biological Effects of Radiation:

11 years - with Howard University, Wash., D.C.

3. Vocational Experience with Radiation:

11 years - with Howard University, Wash., D.C.

4. Experience with Radio Isotopes

<u>Isotopes</u>	<u>Max. Activity</u>	<u>Place</u>	<u>Duration</u>
Cobalt-60	Kilo curies	Howard Univ. Harry Diamond Labs. (calibration, dosimetry, therapy, spectroscopy, biological studies, leak tests)	5 years

4. Experience with Radio Isotopes Continued

<u>Isotopes</u>	<u>Max. Activity</u>	<u>Place</u>	<u>Duration</u>
Cesium - 137	milli curies	Howard Univ.	5 years (Calibration, dosimetry, brachytherapy, biological studies)
Iridium - 192	milli curies	Howard Univ.	5 years
Tritium (H ³)	micro curies	Howard Univ.	6 months (Biological studies)
		Harry Diamond Labs.	1 year (wipe tests)
Radium - 226	micro curies	Harry Diamond Labs.	1 year (calibration studies)

5. Experience with Radiation Producing Machines

<u>Machine</u>	<u>Duration</u>
18 Me V Medical Linear Accelerator	5 years (dosimetry, teletherapy, radiobiological research)
Arora (Harry Diamond Labs.)	3 months assisting with surveys/dosimetry
X-ray radiography (Howard Univ.)	5 years (surveys, dosimetry, shielding, phantom studies)
Harry Diamond Labs.	3 months (surveys, dosimetry)

file
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BARRY J. SILBER, Health Physicist, US Army Communications and Electronics Materiel Readiness Command (CERCOM), Fort Monmouth, New Jersey.

a. Education:

(1) A.A. - Brooklyn College of the City University of New York, Brooklyn, New York - 1965.

(2) B.S. - Brooklyn College of the City University of New York, Brooklyn, New York - 1969. Major: Chemistry.

b. Professional Experience:

(1) October 1966 - May 1967:
Allen Pharmacal Corporation, 175 Pearl Street, Brooklyn, New York.
Laboratory Technician - Analytical Chemistry Laboratory.
Laboratory analyses of pharmaceuticals at various stages of manufacture to insure compliance with Food and Drug Administration Regulations as well as United States Pharmacopeia and National Formulary Monographs.

(2) June 1967 - March 1970:
EON Corporation, 175 Pearl Street, Brooklyn, New York.
Chemist - Responsible for all health physics activities, including radiation surveys, air sampling and wipe tests, leak testing of sealed sources, decontamination of facilities and equipment, disposal of radioactive wastes, calibration of radiation survey and measurement instrumentation, record-keeping, etc., to insure compliance with US Nuclear Regulatory Commission (NRC) and New York State Regulations; liaison between regulatory agencies and corporate management; authorized radiation worker (user) of multiple types of radioactive materials used in the manufacture of radiation sources for commercial, military and highly specialized (custom-made) use; responsible for all chemistry activities including metallurgical applications on products at various stages of manufacture to meet quality control specifications.

(3) March 1970 - June 1977:
State of New York Department of Labor, Division of Safety and Health, 2 World Trade Center, New York, New York.
Senior Radiophysicist - Radiological Health Unit.
Responsible for the review of applications, including the evaluation of facilities, equipment, personnel and products containing radioactive materials, and in the preparation of State licenses authorizing the possession and use of radioactive materials by persons in industry and related activities in this State; assist in the administration of the licensing program; consult with and assist industrial management personnel and others in establishing radiation protection programs; conduct inspections, special prelicensing investigations, radiation surveys and tests at the sites of licensees and registrants using radiation sources to enforce state regulations and to insure that radiation workers and the general public are fully protected; assemble environmental research data, analyze and interpret this data, assist in the publication of scientific reports, and training of new staff members.

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(4) June 1977 - January 1978:
 US Army Electronics Command (ECOM), Fort Monmouth, New Jersey.
 Health Physicist - Responsible for health physics functions in the establishment and implementation of the ECOM Safety Program aimed at establishing life cycle controls of ECOM 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.

(5) January 1978 - Present:
 CERCOM, Fort Monmouth, New Jersey.
 Duties are the same as in Item b(4) above. Name change from ECOM to CERCOM.

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

	<u>Duration of Training</u>	<u>On-The-Job</u>	<u>Formal Course</u>
(1) X-Ray Technology for Radiological Health Personnel-Memorial Hospital for Cancer and Allied Diseases, 444 East 68th Street, New York, New York - 11 January - 14 January 1971.	3 Days	No	Yes
(2) Orientation Course in Regulatory Practices and Procedures - NRC, Bethesda, Maryland - 1 March - 19 March 1971.	3 Weeks	No	Yes
(3) Health Physics and Radiation Protection - Special Training Division, Oak Ridge Associated Universities, Oak Ridge, Tennessee - 12 February 1973 to 20 April 1973. Sponsored by the NRC for Agreement State regulatory personnel.	10 Weeks	No	Yes
(4) Radiological Safety Course - US Army Ordnance and Chemical Center and School, Aberdeen Proving Ground, Maryland - 25 October - 15 November 1977.	3 Weeks	No	Yes

c. Experience with Radiation.

<u>Isotope</u>	<u>Maximum Amount</u>	<u>Duration of Experience</u>	<u>Type of Use</u>
(1) ^{14}C	60 mCi	3 years	For items 1 through 10-manufacture of sealed sources, health physics surveys and wipe tests.
(2) ^{32}P	10 mCi	3 years	
(3) ^{36}Cl	10 mCi	3 years	

Incl 2

<u>Isotope</u>	<u>Maximum Amount</u>	<u>Duration of Experience</u>	<u>Type of Use</u>
(4) ^{63}Ni	10 mCi	3 years	
(5) $^{90}\text{Sr}/^{90}\text{Y}$	50 mCi	3 years	For items 11 and 14- calibration of radiation instrumentation, health physics surveys and wipe tests.
(6) ^{99}Tc	100 mCi	3 years	
(7) $^{106}\text{Ru}/^{106}\text{Rh}$	50 mCi	3 years	
(8) $^{144}\text{Ce}/^{144}\text{Pr}$	500 mCi	3 years	
(9) ^{147}Pm	500 mCi	3 years	For items 12 and 13-health physics surveys and wipe tests.
(10) ^{204}Tl	50 mCi	3 years	
(11) ^{60}Co	10 mCi	3 years	
(12) ^{60}Co	200 Ci	3 years	
(13) ^{137}Cs	250 Ci	3 years	
(14) ^{226}Ra	20 mCi	3 years	

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STEVEN A. HORNE, Health Physicist, US Army Communications and Electronics Materiel Readiness Command (CERCOM), Fort Monmouth, New Jersey

1. Educational Background:

Old Dominion University Norfolk, Virginia	3 Years	1964 - Associate in Applied Science
The Catholic University of America Washington, DC	2 Years	1975 - BSE Nuclear Science and Engineering
The Catholic University of America Washington, DC	-	1975 - Graduate Work in Nuclear Science and Engineering

2. Formal Training and Experience in Radiation Protection Methods, Measurements and Effects:

	<u>Duration of Training</u>	<u>On The Job</u>	<u>Formal Course</u>
a. Fifty-six semester hours pertaining to radiation, including college physics, Environmental Aspects of Nuclear Power Plant Management, Environmental Radioactivity, Nucleonic Fundamentals, Nuclear Properties and Interactions, Nuclear Physics, Nuclear Radiation Detection, Nuclear Reactor Physics, Radiation Biology, Radioisotope Techniques and Radiological Physics - Old Dominion University and The Catholic University of America.	1961-1975	No	Yes
b. Radiation Detection Effects and Devices Utilizing various type of high energy accelerators - Virginia Associated Research Center Newport News, Virginia, and NASA Langley Research Center, Langley, Virginia.	1 Year	Yes	No
c. Radiation safety, detection instrumentation and isotopic handling equipment - Flow Corp, Fort Belvoir, Virginia.	2 Months	Yes	No

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	<u>Duration of Training</u>	<u>On The Job</u>	<u>Formal Course</u>
d. Radiological Safety Course pertaining to Nuclear Moisture/Density Instrumentation - Seaman Nuclear Corporation, Milwaukee, Wisconsin.	24 Hours	No	Yes
e. Occupational Radiation Protection Course 212 - Public Health Services, Las Vegas, Nevada	80 Hours	No	Yes
f. Fundamentals of Non-Ionizing Radiation Protection Course 264 - Public Health Service, Rockville, Maryland.	40 Hours	No	Yes
g. Laser Safety Course - University of Cincinnati, Ohio	40 Hours	No	Yes
h. Radionuclide Analysis by Gamma Spectroscopy Course 208 - Public Health Service, Winchester, Massachusetts.	80 Hours	No	Yes
i. Radiation Guides and Dose Assessment Course 272 - Environmental Protection Agency, Las Vegas, Nevada.	80 Hours	No	Yes

3. Experience with Radioisotopes:

<u>Isotope</u>	<u>Maximum Activities in Curies</u>	<u>Duration of Experience</u>	<u>Type of Experience</u>
²⁴¹ Am	1	3 Years	For all radionuclides listed, experience consisted of laboratory analysis, wipe tests, experiments and evaluations utilizing these sources.
²⁵² Cf	.27	3 Years	
⁵⁷ Co	0.1	4 Years	
⁶⁰ Co	1200	8 Years	
¹³⁷ Cs	1	8 Years	
³ H	20	8 Years	
¹⁹² Ir	100	8 Years	
¹⁴⁷ Pm	1	8 Years	
²²⁶ RaBe	1	5 Years	
²³⁹ PuBe	1	1 Year	
⁹⁰ Sr	0.1	2 Years	

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4. Experience with other Radiation Producing Machines:

<u>Radiation Machine</u>	<u>Duration of Experience</u>	<u>Type of Experience</u>
a. NASA Langley Research Center, and Virginia Associated Research Center's, Space Radiation Effects Laboratory consisting of a 2 MeV Van de Graaff accelerator, 3 MeV Dynamitron accelerator, 10 MeV Linear Electron Accelerator, a 600 MeV Proton Synchrocyclotron Accelerator and a 14 MeV Neutron Generator.	1.5 Year	Radiation damage Shielding Experiments and Related Health Physics Studies.
b. 250 KeV General Electric Corporation X-ray machine	8 Years	Health Physics and laboratory experiments.
c. Various energy dispersive and wave length X-ray fluorescence spectrometry with X-ray generators up to 50 KeV.	8 Years	Health Physics and laboratory experiments.

5. Experience with radiation:

- 1964-1965 - Virginia Associated Research Center, NASA, Langley Research Center, Virginia as health physics technologist.
- 1965-1966 - E.R. Squibb, New Brunswick, New Jersey as radiochemist isotope technologist
- 1966-1968 - Flow Corporation, Nuclear Division, Fort Belvoir, Virginia as radiation engineer.
- 1968-1976 - US Army Mobility Equipment Research and Development Command, Fort Belvoir, Virginia as health physicist.
- 1976-1978 - US Army Electronics Command, Fort Monmouth, New Jersey as health physicist.
- 1978 to present- CERCOM, Fort Monmouth, New Jersey as health physicist.

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