



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

13 MAY 1985

REPLY TO
ATTENTION OF

AMDEL-SS

SUBJECT: Change Radiation Protection Officer,
Special Nuclear Material License No. 1323

Commander
U. S. Army Materiel Command
ATTN: AMCSF-P(D. Taras)
5001 Eisenhower Avenue
Alexandria, Virginia 22333-0001

1. Request NRC Special Nuclear Material No. 1323 be amended as follows:
 - a. Change Mr. David W. Griffis to be Alternate Radiation Protection Officer, when at Evans Area, from Primary Radiation Protection Officer.
 - b. Add Mr. Scott L. Davis as Primary Radiation Protection Officer. Mr. Davis had previously been approved as RPO for this license.
 - c. Mr. Richard Kast to remain as an Alternate Radiation Protection Officer.
2. Resumes for Mr. Davis, Mr. Griffis, and Mr. Rast are enclosed.
3. POCs are Mr. David W. Griffis, Commercial: (202) 394-3446/7 or AV 290-3446 at Adelphi, MD., and Mr. Scott L. Davis, Commercial: (201) 544-5292 or AV 996-5292, at Ft. Monmouth, NJ.

FOR THE COMMANDER:

3 Encl
as

Kenneth S. Norris
KENNETH S. NORRIS
CCL, GS
Chief of Staff

8507290017 850711
REG1 LIC70
SNM-1323 PDR

"OFFICIAL RECORD COPY"

ML10 03880

MAY 29 1985

Item 16, Form NRC 313I, Formal Training in Radiation Safety

SCOTT L. DAVIS

<u>TYPE OF TRAINING</u>	<u>WHERE TRAINED</u>	<u>DATE</u>	<u>DURATION OF TRAINING</u>	<u>ON THE JOB</u>	<u>FORMAL COURSE</u>
a. Principles	Columbia State Community College, Columbia, TN	Feb 75- Jun 78	3 Yrs	Yes	Yes
	University of Tennessee Center for Health Sciences, Memphis, TN	Sep 78- Jun 80	2 Yrs	Yes	Yes
b. Mathematics	Columbia State Community College, Columbia, TN	1975-78	3 Yrs	Yes	Yes
	University of Tennessee Center for Health Sciences, Memphis, TN	1978-80	2 Yrs	Yes	Yes
c. Measurement	Columbia State Community College, Columbia, TN	1975-78	3 Yrs	Yes	Yes
	University of Tennessee Center for Health Sciences, Memphis, TN	1978-80	2 Yrs	Yes	Yes
d. Biological	Columbia State Community College, Columbia, TN	1975-78	3 Yrs	Yes	Yes
	University of Tennessee Center for Health Sciences, Memphis, TN	1978-80	2 Yrs	Yes	Yes

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Item 17, Form NRC 313I, Experience

SCOTT L. DAVIS

<u>ISOTYPE</u>	<u>MAXIMUM AMOUNT</u>	<u>WHERE GAINED EXPERIENCE</u>	<u>DURATION OF EXPERIENCE</u>	<u>TYPE OF USE</u>
Atomic Nbrs. 3-83	6 Ci	Evans Area, Ft. Monmouth, NJ	18 months	Research & Development
Am-241	35 mCi	Evans Area, Ft. Monmouth, NJ	18 months	"
C-14	7 uCi	Evans Area, Ft. Monmouth, NJ	18 months	"
CO-57	100 mCi	Evans Area, Ft. Monmouth, NJ	18 months	"
Co-58	10 mCi	UTCHS-Lebonheur Child. Hosp.	24 months	Medical
Co-60	660 Ci	Evans Area, Ft. Monmouth, NJ	18 months	Research & Development
Co-60	2048 Ci (sealed sources)	Evans Area, Ft. Monmouth, NJ	18 months	"
Co-60	125,000 Ci (pool source)	Evans Area, Ft. Monmouth, NJ	18 months	"
Cs-137	400 Ci	Evans Area, Ft. Monmouth, NJ	18 months	"
Eu-149	50 mCi	Evans Area, Ft. Monmouth, NJ	18 months	"
Ga-67	10 mCi	UTCHS-Lebonheur Child. Hosp.	24 months	Medical
H-3	300 Ci	Evans Area, Ft. Monmouth, NJ	18 months	"
I-131	50 mCi	CSCC/Maury Co. Hosp. Columbia, Tennessee	24 months	"
In-111	10 mCi	UTCHS-Lebonheur Child. Hosp.	24 months	"
Kr-85	5 mCi	Evans Area, Ft. Monmouth, NJ	18 months	R&D, Instrument Check Source
Ni-63	5 mCi	Evans Area, Ft. Monmouth, NJ	18 months	R&D
P-32	10 mCi	CSCC/Maury Co. Hosp. Columbia, Tennessee	24 months	Medical
Pm-147	1.2 Ci	Evans Area, Ft. Monmouth, NJ	18 months	R&D
Po-210	1.0 Ci	Evans Area, Ft. Monmouth, NJ	18 months	R&D
Pu-238	50 gms	Evans Area, Ft. Monmouth, NJ	18 months	R&D
Pu-239	5 mCi	Evans Area, Ft. Monmouth, NJ	18 months	R&D

Item 17, Form NRC 313I, Experience Cont.

SCOTT L. DAVIS

<u>ISOTPYE</u>	<u>MAXIMUM AMOUNT</u>	<u>WHERE GAINED EXPERIENCE</u>	<u>DURATION OF EXPERIENCE</u>	<u>TYPE OF USE</u>
Ra-Be (neutron source)	23 mCi	Evans Area, Ft. Monmouth, NJ	18 months	Research & Development
Ra-226 (implants)	10 mCi	CSCC/Maury Co. Hosp.	24 months	Medical
Sr-90	5 Ci	Evans Area, Ft. Monmouth, NJ	18 months	R&D
Tc-99	30 mCi	CSCC/Maury Co. Hosp. Columbia, Tennessee	24 months	Medical
Tc-99m	20 mCi	UTCHS-Lebonheur Child. Hosp.	24 months	Medical
Th-232 (Natural or depleted)	22 lbs	Evans Area, Ft. Monmouth, NJ	18 months	R&D
U-235 (Natural or depleted)	16 lbs	Evans Area, Ft. Monmouth, NJ	18 months	R&D

Item 16, Form NRC 3131, Formal Training in Radiation Safety

DAVID W. GRIFFIS

<u>TYPE OF TRAINING</u>	<u>WHERE TRAINED</u>	<u>DATE</u>	<u>DURATION OF TRAINING</u>	<u>ON THE JOB</u>	<u>FORMAL COURSE</u>
a. Principles	Texas A&M University College Sta, TX. Courses leading to- wards a BS & MS in Nuclear Engrng - - Health Physics option	Jan 74 - May 78 (approx 40 semester hours under- graduate and 40 hours graduate.)	4 Yrs	No	Yes
b. Mathematics	San Antonio J.C, San Antonio, TX; Texas Tech U, Lubbock, TX and Texas A&M U Courses leading to- wards AS, BS (Chem), BS (Nuc Engr) and MS degrees. Courses included through advanced Calculus (graduate level) and statistics (graduate level)	Sep 69 - May 78 (approx 25 semester hours)	9 Yrs	No	Yes
c. Measurement	Texas A&M U College Sta, TX Courses leading to- wards BS & MS degrees in Nuclear Engineer- ing - Health Physics option. (Courses included undergraduate level counting laboratory and graduate level OJT/formal course assisting in Health Physics operations at two University research reactors and a research accelerator facility.	Jan 74 - May 78 (approx 15 semester hours)	4 yrs	Yes	Yes

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DAVID W. GRIFFIS

<u>TYPE OF TRAINING</u>	<u>WHERE TRAINED</u>	<u>DATE</u>	<u>DURATION OF TRAINING</u>	<u>ON THE JOB</u>	<u>FORMAL COURSE</u>
	Harry Diamond Laboratories Adelphi, MD Assisting the HDL RPO in routine Health Physics operations	Nov 83 - Jan 84	60 days	Yes	No
	ERADCOM Field Safety Ofc., Ft. Monmouth, NJ Routine Health Physics operations.	Feb 85 - May 85	90	Yes	No
d. Biological	San Antonio JC, TX; Texas Tech U; Texas A&M U Courses leading towards AS, BS (Chem), and MS degrees. Courses included through Histology and Embryology (undergrad level) and Biochemistry and Radiation Biology(graduate level)	Sep 69 - May 78 (approx 35 semester hours)	9 years	No	Yes

Item 17, Form NRC 313I, Experience

DAVID W. GRIFFIS

<u>ISOTYPE</u>	<u>MAXIMUM AMOUNT</u>	<u>WHERE GAINED EXPERIENCE</u>	<u>DURATION OF EXPERIENCE</u>	<u>TYPE OF USE</u>
Atomic Nrs 3 - 83	6 Ci	Evans Area, Ft. Monmouth, NJ	90 days	Routine Health Physics
Am-241	35 mCi	Evans Area, Ft. Monmouth, NJ	90 days	Routine Health Physics
C-14	200 uCi	Harry Diamond Laboratories	60 days	"
Cl-36	0.8 uCi	Harry Diamond Laboratories	60 days	"
Co-57	100 mCi	Evans Area, Ft. Monmouth, NJ	90 days	"
Co-60	2048 Ci (sources sealed)	Evans Area, Ft. Monmouth, NJ	90 days	"
Co-60	125,000 Ci (pool sources)	Evans Area, Ft. Monmouth, NJ	90 days	"
Cs-137	400 Ci	Evans Area, Ft. Monmouth, NJ	90 days	"
H-3	300 Ci	Evans Area, Ft. Monmouth, NJ	90 days	"
Kr-85	5 mCi	Evans Area, Ft. Monmouth, NJ	90 days	"
Ni-63	10 uCi	Harry Diamond Laboratories	60 days	"
Np-237	25 gms	Harry Diamond Laboratories	60 days	"
Pb-210/Bi-210 (RaD&E)	20 uCi	Harry Diamond Laboratories	60 days	"
Pm-147	15 mCi	Harry Diamond Laboratories	60 days	"
Po-210	0.5 mCi	Evans Area, Ft. Monmouth, NJ	90 days	"
Pu-238	50 gms	Evans Area, Ft. Monmouth, NJ	90 days	"
Pu-239	63 gms	Harry Diamond Laboratories	60 days	"
Pu-Be Sources	unk	Texas A&M UNiversity, TX	90 days	"

Item 17, Form NRC 3131, Experience - Cont.

DAVID W. GRIFFIS

<u>ISOTOPE</u>	<u>MAXIMUM AMOUNT</u>	<u>WHERE GAINED EXPERIENCE</u>	<u>DURATION OF EXPERIENCE</u>	<u>TYPE OF USE</u>
Ra-226	20 mCi	Evans Area, Ft. Monmouth, NJ	90 days	Routine Health Physics
Sr-90	5 Ci	Evans Area, Ft. Monmouth, NJ	90 days	"
Th-232	22 lbs	Evans Area, Ft. Monmouth, NJ	90 days	"
Ti-204	100 uCi	Harry Diamond Laboratories	60 days	"
U-235	22 gms	Harry Diamond Laboratories	60 days	"
U-238	137 gms	Harry Diamond Laboratories	60 days	"
U-(depleted)	25 gms	Harry Diamond Laboratories	60 days	"

In addition, Mr. Griffis has assisted in performing routine health physics surveys for the 11 MeV Aurora Facility, 3 MeV HIFX Facility at Harry Diamond Laboratories, and industrial X-ray units at Harry Diamond Laboratories and the Fort Monmouth Evans area, as well as performing routine medical X-ray compliance inspections at a variety of sites between May 1979 and June 1982. Mr. Griffis' current assignment includes the staff supervision of radiation protection programs at a number of geographic areas.

TRAINING AND EXPERIENCE WITH RADIATION AND
RADIOACTIVE MATERIAL

MR RICHARD RAST

EDUCATION BS Degree in Chemistry, Seton Hall University, Patterson, NJ.

EXPERIENCE: Biological and Clinical Chemistry, Serology and Hematology -
2 years, Monmouth Medical Center and Patterson Army Hospital,
Fort Monmouth, NJ - 1950-52.

Health Physics, Research and Development and Calibration of radiation
sensitive systems; design, fabrication and encapsulation of isotopes for
calibration systems up to 200 curies level - 1952-62

During past 23 years in the Radiac R&D Group, Mr Rast has applied his
knowledge of physics, health physics, mathematics, and electronics to the
solution of engineering problems and equipment design relating to the radiac
development program. Specifically, he has worked on field calibration
devices, design of new portable radiac equipment, a Remote Large Area Radiac
Training Set and a Recording Radiation Monitor, Tactical Radiac Survey
Instrument IM-74B, Alpha Radiac Survey Instrument AN/PDR-56F, and X-Ray Probe
DT-590/PDR-56F - 1962-85

Actively participated in Nuclear Weapons tests at Nevada Test Site (NTS);
operations "UPSHOT KNOTHOLE," "TEAPOT," and "SMALL BOY." Also operations
"CASTLE," "REDWING," and "HARDTACK" at Pacific Proving Ground, Eniwetok,
Marshall Island.

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MR RICHARD RAST

ACTUAL USE OF RADIOISOTOPES

<u>ISOTOPE</u>	<u>QUANTITY</u>	<u>PLACE</u>	<u>DURATION</u>	<u>TYPE OF USE</u>
^{60}Co	200 Curies	Nevada	6 mos total	Equipment Calibration-Hi-range
^{50}Co	200 Curies	Eniwetok	8 mos total	Dosimetry
^{60}Co	UDM-1 (1-9 curies)	Evans	22 yrs (on an as needed basis)	Calibration-Dosimetry R&D
^{137}Cs	UDM-1A (120 curies)	Evans	20 yrs (on an as needed basis)	Calibration-Dosimetry R&D
^{137}Cs	Mrc 794 (220 curies)	Evans	3 years	Calibration Development
^{90}Sr ^{90}y	Up to 2 Curies	Evans	16 years	Calibration Development
^{60}Co	3500 Curies	Evans	9 years	Equipment Calibration Hi-range Dosimetry R&D

Additional Note:

X-Ray Machine	320 Kv IsoVolt with traceability to the NBS	Evans	23 years	Energy Dependence for for Radiac Instrument
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