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GENERAL ELECTRIC

SPACE DIVISION

GENERAL ELECTRIC COMPANY . . . . . VALLEY FORGE SPACE CENTER
(MAIL: P. O. BOX 8555, PHILADELPHIA, PENNSYLVANIA 19101), Phone (215) 962-2000

August 5, 1980

Ms. Lynn O'Rielly
U. S. Nuclear Regulatory Commission
Office of Nuclear Materials Safety & Safeguards
Materials Licensing Branch
Washington, D. C. 20555

Dear Ms. O'Rielly:

Enclosed, per your request, are 4 copies of a resume detailing my radioactive material experience and training.

As in Mr. T. P. Handley's letter of April 4, 1980, we are again requesting that the name of Alfred W. Kobylinski replace the name of Richard G. Oesterling as Radiation Safety Office for the following licenses:

#37-02006-05	Control number	03-364
#37-02006-09	Control number	04-101
#SMB-1005	Control number	15-997
#SNM 1199	Control number	15-998

One copy of this radioactive material experience summary should replace Attachment #3 of our application for bi-product material license #37-02006-05 (Control #03-364) December 19, 1978, one copy should be included with our application for the materials license that covers our Gammacell 220 irradiator, license #37-02006-9 (Control #04-101) July 26, 1977. One copy should replace Attachment #3 of our Application for Source Material license #SMB 1005 (Control #15-997) August 23, 1979, and one copy should be included with our application for Special Nuclear Material license #SNM 1199 (Control #15-998) May 19, 1975.

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August 5, 1980

I hope this resume answers your questions about my qualifications and allows prompt action on the other license amendments we have requested. If there are any further questions, please contact me at (215) 962-1085.

Sincerely,

Alfred W. Kobylinski

A. W. Kobylinski
Industrial Hygienist
Radiation Safety Officer

/aab
Enc.
CC: T. P. Handley

RADIOACTIVE MATERIALS EXPERIENCE

Alfred W. Kobylinski, Industrial Hygienist

Education

B.S. (Biology) (b)(6) 6+6 Delaware Valley College, Doylestown, Pa and Pennsylvania State University, University Park, Pa

Several courses in chemistry, physics and biology that covered the physical properties of radioactive materials as well as the effects of different types of radiation on living tissue.

M.S. (Occupational Health) 1980 Drexel University, Philadelphia, PA

Courses in Radioisotope Methodology, Industrial Hygiene, Environmental Health, Epidemiology, Physiology, Toxicology, and Industrial Ventilation. The above courses contained formal lectures and supervised lab work covering (at least in part) all of the following topics:

a) Principles and practices of radiation protection.
A large variety of methods used to protect people from exposure to radiation and the principles behind those methods were thoroughly covered.

b) Radioactivity measuring, standardizing, and monitoring techniques were covered using a variety of detection instruments such as G.M. tubes, proportional flow detectors, scintilation counters, neutron probe and detectors and alpha air monitors. Also methods for using and developing passive dosimeters such as TLD's and film badges were thoroughly covered.

c) Mathematics and calculations basic to the use and measurement of radioactivity. This included (but not limited to) all mathematical and statistical calculations necessary to evaluate the decay rates of isotopes and to evaluate the efficiency of counting instruments, calculations necessary to determine required shielding thicknesses, and all calculations necessary to convert different units used for radiation measurements.

d) Biological effects of radiation.
The systemic and genetic effects of all types of radiation, ionizing and non-ionizing on biological tissue were thoroughly covered in most of these courses.

e) Principles and practices of protection against the toxicity of source materials. As an occupational health major, practices necessary to protect personnel from the harmful effects of toxic materials, including source material, was a major portion in my training.

I have also attended several refresher courses and research study presentations dealing with radiation safety presented by the American Industrial Hygiene Association.

Experience

Summer 1974-1976 — Toxicology Technician
Ayerst Laboratories Animal Health Division
Chazy, NY 12921

Assisted in the operation of diagnostic x-ray equipment used for the examination of laboratory animals.

1976-1978 — Research Technician
Physiology Department
Thomas Jefferson University
Philadelphia, PA

Performed cardiovascular physiology studies utilizing radioactive tracer microspheres labeled with Sr^{85}, Ce^{147} and I^{125}. These studies were designed to trace blood flow through the blood vessels of mammals by determining the quantity of labeled microspheres lodged in the particular tissues of interest. I was also responsible for conducting radiation surveys to determine the levels of gamma radiation in the lab area and for the determination of, and safe disposal of, all contaminated materials.

12-1979 Present — Industrial Hygienist
General Electric Company
Space Division
King of Prussia, PA

Under supervision of Mr. R. G. Oesterling (Certified Health Physicist) and Mr. T. P. Handley (Chairman, Ionizing Radiation Advisory Group), I have administered all aspects of the radiation protection and licensing program for a major aerospace facility. The radioactive materials I am responsible for are covered by NRC licenses which include a byproduct, source, and special nuclear material.

Radiation Protection Training

Type of Training	Where Trained	Duration	On the Job	Formal
A. Principles and Practices of Radiation Protection	Delaware Valley College	2 years	no	yes
	Penn State University	2 years	no	yes
	Drexel University	1 year	no	yes
	Thomas Jefferson University	1.5 years	yes	yes
	Ayerst Labs	6 months	yes	no
	General Electric Co.	6 months	yes	yes
B. Radioactivity measurement standardization and monitoring techniques and instruments	Penn State University	2 years	no	yes
	Drexel University	1 year	no	yes
	Thomas Jefferson University	1.5 years	yes	yes
	General Electric Co.	6 months	yes	yes
C. Mathematics and calculations basic to the use and measurement of radioactivity	Delaware Valley College	2 years	no	yes
	Penn State University	2 years	no	yes
	Drexel University	1 year	no	yes
	Thomas Jefferson University	1.5 years	yes	yes
	General Electric Co.	6 months	yes	yes
D. Biological effects of radiation	Delaware Valley College	2 years	no	yes
	Penn State University	2 years	no	yes
	Drexel University	1 year	no	yes
	Thomas Jefferson University	1.5 years	yes	yes
	General Electric Co.	6 months	yes	yes
E. Principles and practices of protection against the toxicity of source materials	Drexel University	1 year	no	yes
	General Electric Co.	6 months	yes	yes

Experience with Radiation

Isotope	Maximum Amount	Location	Duration	Type of Use
Cerium-147	4 millicuries	Thomas Jefferson University	1.5 years	Medical Research
Strontium-85	4 millicuries	Thomas Jefferson University	1.5 years	Medical Research
Iodine-125	4 millicuries	Thomas Jefferson University	1.5 years	Medical Research
Cobalt-60	kilocuries	General Electric Company	6 months	Gamma Irradiation
Krypton-85	18 curies	General Electric Company	6 months	Leak Tests
Strontium-90	10 curies	General Electric Company	6 months	Irradiation Sourc
Plutonium-238	90 millicuries	General Electric Company	6 months	Calibration
Plutonium 239	microcuries	General Electric Company	6 months	Calibration
Cesium 137	100 millicuries	General Electric Company	6 months	Calibration Sourc
Americium-241	millicuries	General Electric Company	6 months	
Uranium-235	microcuries	General Electric Company	6 months	Research
Uranium 238	microcuries	General Electric Company	6 months	Research
Other By-product materials	30 curies	General Electric Company	6 months	Research and Development
Other Source materials	kilograms	General Electric Company	6 months	Shielding and Research

NRC FORM 218 (4-76) NRCM 0240

U.S. NUCLEAR REGULATORY COMMISSION

TELEPHONE OR VERBAL CONVERSATION RECORD

DATE: 6/18/80

TIME: 1:20 ☐ A.M. ☒ P.M.

☐ INCOMING CALL ☒ OUTGOING CALL ☐ VISIT

PERSON CALLING	OFFICE/ADDRESS	PHONE NUMBER / EXTENSION
L.A. O'Reilly		

PERSON CALLED	OFFICE/ADDRESS	PHONE NUMBER / EXTENSION
Alfred Kobylinski	GE	215-962-1085

CONVERSATION

SUBJECT

SUMMARY

Amendments to Lic Nos. 37-02006-09
37-02006-05
SMB-1005
SNM-1199

Need additional information on his training and experience as RSO; will send Broad Lic. Guide & Irradiator guide
Also, extending expiration dte of SNM license for 6 months inorder to receive additional info.

REFERRED TO:

☐ ADVISE ME OF ACTION TAKEN.

ACTION REQUESTED

INITIALS

DATE

ACTION TAKEN

INITIALS

DATE

NRC FORM 218 (4-76)