

040-07344

GENERAL ELECTRIC

FEDERAL AND ELECTRONIC SYSTEMS DIVISION

GENERAL ELECTRIC COMPANY • VALLEY FORGE SPACE CENTER • P.O. BOX 8555 • PHILADELPHIA, PENNSYLVANIA 19101 • (215) 354-1000

December 4, 1987

U.S. Nuclear Regulatory Commission
Region 1
531 Park Avenue
King Of Prussia, Pa. 19406

Re. License No Sub-831 and License No. 37-02006-05
Docket No. 040-07334 Docket No. 030-06046
Control No. 104645

Dear Sir/Madam:

Please process an amendment to our source material license SUB-831 to incorporate the following changes:

- 1) Add our facility at 970 Pulaski Road, King Of Prussia, Pa. 19406 to the list of location where radioactive source material may be stored. A portion of this building will be used for storage only of raw stock magnesium thorium alloy (2% thorium).
- 2) Update the membership of our Ionizing Radiation Advisory Group to reflect the changes included on the attachment.

Please process an amendment to our byproduct material license 37-02006-05 to incorporate the following change:

- 1) Update the membership of our Ionizing Radiation Advisory Group to reflect the changes indicated on the attachment.

Also attached is a check for \$240.00 to cover the cost of both amendments. If there are any questions concerning these requests, please contact the undersigned at (215) 354-1085.

Sincerely,

Alfred W. Kobylinski
Alfred W. Kobylinski
Radiation Safety Officer

Copies: S.J. Mucha, M.D.
C.B. Chilton
D.M. Sternberg
J.T. Coombe
G.G. McErlane

RECEIVED
JAN - 4 AMO :45
88

F-38

Log	Jan 6 I
Remitter	
Check No.	R 368387 (6240)
Amount	\$120
Fee Category	2G See 108199
Type of Fee	AMO
Date Check Rec'd	1/11/88
Date Completed	1/11/88
By:	A. Kimberly

8804000430 880306
REGISTRATION
SUB-831
FNU

information in this record was deleted
in accordance with the Freedom of Information
Act, exemptions 4, 6
FOIA- 2007-304

OFFICIAL RECORD COPY ML10

108191
12-14-87

General Electric Company
License SUB-831
Amendment 12/87

IONIZING RADIATION ADVISORY GROUP

TRAINING AND EXPERIENCE

Prior to the start of any work with radioactive materials, all operations involving radioactive materials must be reviewed and approved by the Ionizing Radiation Advisory Group (IRAG).

The Current Members of IRAG are as follows:

Chairman:	S.J. Mucha, M.D.	Medical Director
Member:	C.B. Chilton	Mgr., Industrial Safety and Hygiene
Member:	D.M. Sternberg	Mgr., Electrical Systems Engineering
Secretary:	A.W. Kobylinski	Sr. Industrial Hygienist, Radiation Safety Officer

Resumes detailing training and experience with radioactive materials for each of the above individuals are attached.

RESUME:

STEPHEN J. MUCHA, M.D., F.A.C.S.
MEDICAL DIRECTOR

A. Education: *et/6*

(b)(6)

- B.S. Degree in Biology from Franklin & Marshall College
Lancaster, Pa.
- 1956 - M.D. Degree from the University of Pennsylvania, School of Medicine,
Philadelphia, Pa.

B. Post Graduate Training:

- 1956-1957 Internship rotating at U.S. Naval Hospital,
Philadelphia, Pa.
- 1957-1961 General Surgical Residency, U.S. Naval Hospital,
Philadelphia, Pa.
- 1961-1964 Assistant Chief of Surgery, U.S. Naval Hospital,
Camp Lejeune, N.C.
- 1964-1967 Chief of Surgery, U.S. Naval Hospital, Roosevelt Roads,
Puerto Rico.
- 1967-1971 Assistant Chief of Surgery, U.S. Naval Hospital,
Philadelphia, Pa.
- 1971-1978 Chairman, Department of Surgery, Naval Regional Medical Center,
Philadelphia, Pa.
- 1978- Medical Director, General Electric Company, FESD,
Philadelphia, Pa.
Private Practice.

C. Memberships:

- 1971-1978 Chairman, Disaster Committee, Naval Regional Medical Center,
Philadelphia, Pa.
- 1971-1978 Member, Radiation Committee, Naval Regional Medical Center,
Philadelphia, Pa.
- 1978-1986 Member, Ionizing Radiation Advisory Group, General Electric Company,
Philadelphia, Pa.
- 1987- Chairman, Ionizing Radiation Advisory Group, General Electric Co.,
Philadelphia, Pa.

General Electric Company
License SUB-831
Amendment 12/87

RESUME:

CHARLES B. CHILTON, MANAGER
INDUSTRIAL SAFETY & HYGIENE

A. Education:

B.S. - Virginia Polytechnic Institute, Blacksburg, Va. - Agricultural Eng.
M.S. - Temple University, Philadelphia, Pa. - Industrial Hygiene

Certified Safety Professional - #1410
Registered Professional Engineer in Safety Engineering, State of Calif. - #676

B. Work Experience:

U. S. Army - 6 months active duty, 28 years active reserve, rank of Colonel.
Taught/attended numerous chemical, biological, radiological (CBR)
courses.

Factory Insurance Association - Fire Protection Engineer - 5 years

Celanese Corporation - Safety Supervisor - 5 years

Borg-Warner Corporation - Safety Manager - 1 year

General Electric Company - Safety Manager - 17 years

C. Member:

ASSE

NFPA

AIHA

Supervised HP activities 17 years.

Attended numerous HP short courses (U.S. Army, AIHA).

Completed 2 graduate level HP courses (Temple University).

Resume for: Daniel M. Sternberg

Professional Experience:

1983 - Present: Manager, Electronic Systems Engineering
Manager of a group of 17 very senior electrical systems engineers involved with all electronic aspects of strategic missile re-entry systems. Typical areas of responsibility include telemetry and tracking, electrical power and distribution, command and control, nuclear weapons safety, radar signal processing, test equipment and flight data analysis.

In addition to managerial responsibilities, I have served on a number of "Tiger Teams" charged with correcting a program experiencing technical, cost or schedule difficulties. I am also called upon to participate in the preparation and review of vital proposals responding to government RFPs.

1981 - 1983: Chief, Reactor Projects Branch
United States Nuclear Regulatory Commission
Region, V Walnut Creek, California

Responsibility for management of inspection program at operational and construction activities, West Coast nuclear power plants. Included was overall branch budgeting, supervision of 2 supervisory, 20 senior technical and 5 administrative personnel, and long-range planning in Reactor Projects. Regional Telecommunications Coordinator and member, ADP Users Group.

1979 - 1981: Chief, Reactor Operations Section, USNRC - Region V

Management of inspection program at operating and pre-operational nuclear plants. Immediate supervisor for 10 Senior Reactor Inspectors and 3 clerical personnel. Position included recommending program changes, recruiting staff, providing oral and written testimony before government and professional bodies.

1974 - 1979: Reactor Inspector, USNRC - Region I,
King of Prussia, PA

Project Inspector for Boiling Water Reactors, planning program, conducting on-site inspections, and coordinating work of various specialists.

General Electric Company
License SUB-831
Amendment 12/87

1969 - 1974:

Electrical Project Engineer

General Electric Re-Entry and Environmental
Division Philadelphia, Pennsylvania

Instrumentation and Communications Subsystem
Engineer on Minuteman III Mk 12 Re-entry Vehicle
program, responsible for design change support,
telemetry data reduction, troubleshooting, and
flight test support.

1964 - 1969:

Officer, United States Navy

Completed Navy Nuclear Power School, Reactor
Prototype - EOW Qualification, and Officers
Submarine School. Served aboard Polaris
submarine as Communications, Sonar, Electrical,
and Reactor Controls Officer during four patrols
and an 18-month refueling overhaul.

Education:

BSEE - (b)(6) University of Pennsylvania, Moore
School of Electrical Engineering, Philadelphia,
PA. Class Standing: 10 of 42.

Ex 6

RESUME:

ALFRED W. KOBYLINSKI
SENIOR INDUSTRIAL HYGIENIST
RADIATION SAFETY OFFICER

A. Education:

- M.S. - Occupational Health (Industrial Hygiene)
Drexel University, Philadelphia, Pa. - 1980
- B.S. - Biology, Pennsylvania State University *Et. 6*
University Park, Pa. (b)(6)
- Occupational & Environmental Radiation Protection, August 1985,
Harvard School of Public Health, Boston, MA
 - Short courses in Radiation Science, January 1987,
Rutgers University, New Brunswick, N.J.
 - Several additional professional development courses dealing
with radiation safety presented by the American Industrial
Hygiene Association and other professional organizations.

B. Work Experience:

1974-1976 Toxicology Technician
Ayerst Laboratories, Animal Health Division
Chazy, N.Y. 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. 19107

Performed cardiovascular physiology studies utilizing
radioactive tracer microspheres labelled with SR 85, Ce147
and I125. Responsible for: safe handling and use of
microspheres, conducting surveys to determine radiation
levels in lab area, and for the determination of and safe
disposal of all contaminated materials.

12/79-
present Industrial Hygienist
General Electric Company, FESD
King of Prussia, Pa 19406

Under the direction of the Space Systems Division Ionizing
Radiation Advisory Group, I have functioned as Radiation
Safety Officer for the divisions 3 NRC licenses.

<u>ISOTOPE</u>	<u>MAXIMUM AMOUNT</u>	<u>LOCATION</u>	<u>DURATION</u>	<u>TYPE OF USE</u>
Cerium-147	4 millicuries	Thomas Jefferson Univ.	1.5 years	Medical Research
Strontium-85	4 millicuries	Thomas Jefferson Univ.	1.5 years	Medical Research
Iodine-125	4 millicuries	Thomas Jefferson Univ.	1.5 years	Medical Research
Cobalt-60	(b)(4) 249	General Electric Co.	1980-present	Gamma Irradiation
Krypton-85	20 curies	General Electric Co.	1980-present	Leak Tests
Strontium-90	10 curies	General Electric Co.	1980-present	Irradiation Source
Plutonium-238	90 millicuries	General Electric Co.	1980-present	Calibration
Plutonium-239	microcuries	General Electric Co.	1980-present	Calibration
Cesium-137	100 millicuries	General Electric Co.	1980-present	Calibration Source
Americium-241	millicuries	General Electric Co.	1980-present	Research
Uranium-235	microcuries	General Electric Co.	1980-present	Research
Uranium-238	microcuries	General Electric Co.	1980-present	Research
Natural Thorium	100 kilograms	General Electric Co.	1980-present	Structural Material
Any Neutron activated radio-nuclide with atomic no. 3-83 inclusive	0.1 Ci	General Electric Co.	1980-present	Electronic Component Research

BETWEEN:

LICENSE FEE MANAGEMENT BRANCH, ARM AND REGIONAL LICENSING SECTIONS

(FOR LFMS USE)
INFORMATION FROM LMS

PROGRAM CODE: 11300
STATUS CODE: G
FEE CATEGORY: 2G
EXP. DATE: 19890531
FEE COMMENTS:

LICENSE FEE TRANSMITTAL

A. REGION I

1. APPLICATION ATTACHED

APPLICANT/LICENSEE: GENERAL ELECTRIC CO.
RECEIVED DATE: 871214
DOCKET NO: 4007344
CONTROL NO.: 108191
LICENSE NO.: SUB-831
ACTION TYPE: AMENDMENT

2. FEE ATTACHED

AMOUNT: \$240
CHECK NO.: R-368387

3. COMMENTS

SIGNED DT
DATE 12/31/87

B. LICENSE FEE MANAGEMENT BRANCH (CHECK WHEN MILESTONE 03 IS ENTERED 14)

1. FEE CATEGORY AND AMOUNT: 2G \$120

2. CORRECT FEE PAID. APPLICATION MAY BE PROCESSED FOR:

AMENDMENT _____
RENEWAL _____
LICENSE _____

3. OTHER _____

SIGNED A. Kimbushly
DATE 1/11/88