

MATERIALS LICENSE

Amendment No. 17

Pursuant to the Atomic Energy Act of 1954, as amended, the Energy Reorganization Act of 1974 (Public Law 93-438), and Title 10, Code of Federal Regulations, Chapter I, Parts 30, 31, 32, 33, 34, 35, 39, 40 and 70, and in reliance on statements and representations heretofore made by the licensee, a license is hereby issued authorizing the licensee to receive, acquire, possess, and transfer byproduct, source, and special nuclear material designated below; to use such material for the purpose(s) and at the place(s) designated below; to deliver or transfer such material to persons authorized to receive it in accordance with the regulations of the applicable Part(s). This license shall be deemed to contain the conditions specified in Section 183 of the Atomic Energy Act of 1954, as amended, and is subject to all applicable rules, regulations and orders of the Nuclear Regulatory Commission now or hereafter in effect and to any conditions specified below.

Licensee		In accordance with letter dated April 12, 1990,	
1. General Electric Company Space Systems Division		3. License number SUB-831 is amended in its entirety to read as follows:	
2. P. O. Box 8555 Philadelphia, Pennsylvania 19101		4. Expiration date May 31, 1989 (Extended)	
		5. Docket or Reference No. 040-07344	
6. Byproduct, source, and/or special nuclear material	7. Chemical and/or physical form	8. Maximum amount that licensee may possess at any one time under this license	
A. Uranium (Natural or depleted in the isotope Uranium-235)	A. Any	A. 750 kilograms	
B. Thorium	B. Any	B. 200 kilograms	
9. Authorized use			
A. and B. Research and development as defined in Section 30.4 of 10 CFR Part 30 and manufacturing related to missile and space programs.			

CONDITIONS

- 10. Licensed material may be used at 3198 Chestnut Streets, D and Luzerne Streets, and 401 E. Hunting Park Avenue in Philadelphia, Pennsylvania; STC Building and Space Division facilities on Goddard Boulevard, Allendale Road and Third Avenue, and 970 Pulaski Road in King of Prussia, Pennsylvania; and at temporary job sites of the licensee anywhere in the United States where the U.S. Nuclear Regulatory Commission maintains jurisdiction for regulating the use of licensed material.
- 11. A. Licensed material shall be used by, or under the supervision of, individuals designated by the Ionizing Radiation Advisory Group, Dr. S. J. Mucha, Chairman.
B. The Radiation Safety Officer for this license is Charles B. Chilton.
- 12. Licensed material shall not be used in or on human beings.
- 13. The licensee may transport licensed material in accordance with the provisions of 10 CFR Part 71, "Packaging and Transportation of Radioactive Material."

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

F-39

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MATERIALS LICENSE

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**MATERIALS LICENSE
SUPPLEMENTARY SHEET**

License number

SUB-831

Docket or Reference number

040-07344

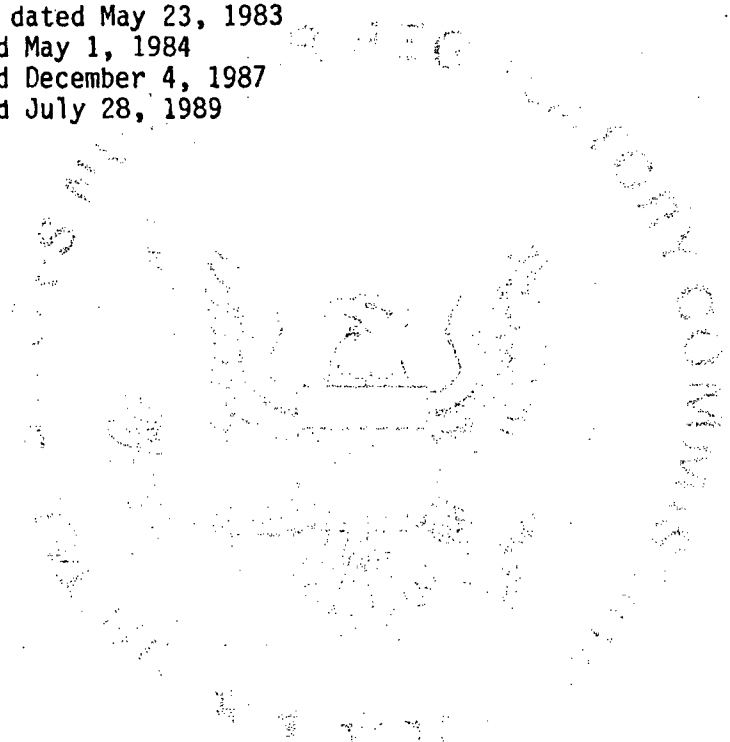
Amendment No. 17

(Continued)

CONDITIONS

14. Except as specifically provided otherwise in this license, the licensee shall conduct its program in accordance with the statements, representations, and procedures contained in the documents including any enclosures, listed below. The Nuclear Regulatory Commission's regulations shall govern unless the statements, representations and procedures in the licensee's application and correspondence are more restrictive than the regulations.

- A. Application dated May 23, 1983
- B. Letter dated May 1, 1984
- C. Letter dated December 4, 1987
- D. Letter dated July 28, 1989



For the U.S. Nuclear Regulatory Commission

Original Signed by
MICHAEL A. LAMASTRA

Date JUN 14 1990

By _____
Nuclear Materials Safety Branch
Region I
King of Prussia, Pennsylvania 19406

JUN 14 1990

License No. SUB-831
Docket No. 040-07344
Control No. 112459

General Electric Company
ATTN: S. J. Mucha, M.D.
Chairman
P. O. Box 8555
Philadelphia, Pennsylvania 19101

Gentlemen:

Please find enclosed an amendment to your NRC Material License.

Please review the enclosed document carefully and be sure that you understand all conditions. If there are any errors or questions, please notify the Region I Material Licensing Section, (215) 337-5093, so that we can provide appropriate corrections and answers.

Please be advised that you must conduct your program involving licensed radioactive materials in accordance with the conditions of your NRC license, representations made in your license application, and NRC regulations. In particular, please note the items in the enclosed, "Requirements for Materials Licensees."

Since serious consequences to employees and the public can result from failure to comply with NRC requirements, the NRC expects licensees to pay meticulous attention to detail and to achieve the high standard of compliance which the NRC expects of its licensees.

You will be periodically inspected by NRC. A fee may be charged for inspections in accordance with 10 CFR Part 170. Failure to conduct your program safely and in accordance with NRC regulations, license conditions, and representations made in your license application and supplemental correspondence with NRC will result in prompt and vigorous enforcement action against you. This could include issuance of a notice of violation, or in case of serious violations, an imposition of a civil penalty or an order suspending, modifying or revoking your license as specified in the General Policy and Procedures for NRC Enforcement Actions, 10 CFR Part 2, Appendix C.

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ML10 06/07/90

General Electric Company

2

We wish you success in operating a safe and effective licensed program.

Sincerely,

Original Signed by
MICHAEL A. LAMASTRA

for John D. Kinneman, Chief
Nuclear Materials Safety Section B
Division of Radiation Safety
and Safeguards

Enclosures:

1. Amendment No. 17
2. Requirements for Materials Licensees

DRSS:RI
Roberts/pmb
06/13/90 *MCR*

✓
DRSS:RI
Kinneman
06/17/90

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ML SUB-831/LTR - 0002.0.0
06/07/90



GE Aerospace

MS-16
L8

General Electric Company
PO Box 8555, Philadelphia, PA 19101

June 1, 1990

Region I, USNRC
475 Allendale Road
King of Prussia, PA 19406

Attn: Mark Robinson

RE: NRC License #37-02-006-09
Mail Control: 112458

NRC License #SUB 831
Mail Control: 112459

NRC License #37-02-006-05
Mail Control: 112460

Dear Mr. Robinson:

As we discussed, my resume in the radiation safety field should be amplified by the following information:

Formal Radiation Safety Training:

"Radioisotope Methodology"
Temple University (graduate level) -1974
Instructor: Dr. Elaine Mackowiak

"Ionizing Radiation Instrumentation and Measurement"
Temple University (graduate level) - 1974
Instructor: Dr. Elaine Mackowiak

"Radiation Safety for Engineers"
Two day seminar sponsored by PA Department of Radiation Health - 1970
Principal Instructor: Jordan S. Davis

"Basic Principles of Nuclear Physics"
Virginia Polytechnic Institute (undergraduate physics) - 1955
Instructor: Dr. T. Marshall Hahn

"Basics of Ionizing and Non-Ionizing Radiation"
American Industrial Hygiene Association, 1980

"Ionizing Radiation Safety"
Rutgers University, CA - 1973
One week short course
Multiple Instructors

"Radon and Its Daughters"
Bell Labs - 1983
Two day short course

JUN 04 1990

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112459

Region I, USNRC
June 1, 1990
Page 2.

Partial List of US Army courses:

- "Operations in a Nuclear Environment," 1962.
- "Tactical Use of Nuclear Weapons," 1964.
- "Tactical Nuclear Weapon Yields and Troop Safety," 1964.
- "Chemical, Biological, Radiological Measurement and Decontamination," 1966.
- "The CBR Environment": Student - 1966; Instructor - 1972.
- "Nuclear Risk Assessment," 1977.

I am not sure that the dates and course titles are exact. If you need more precise data, I can reconstruct it, but it would take a fair amount of time.

My primary experience with specific isotopes would be as follows:

Selenium ₇₂ - 35 curies	1971 to 1975
Cobalt ₆₀ (b)(4) Ex 4	1982 to present
depleted Uranium - up to 30mCi	1972 to 1980
Miscellaneous transuranic isotopes - 1mCi-40mCi	1970 to present
Thorium alloys - 50 Kg	1982 to present
Krypton ₈₅ - 18 Ci	1982 to present
Miscellaneous Calibration Sources - up to 1 Ci activity	

During my tenure with General Electric, I have supervised the activities of such Health Physicists as R. O. McClintock, J. S. Davis, Dr. J. R. McFadden, all of whom subsequently served with distinction in responsible positions with the USNRC. I have also been directly involved in the collection and evaluation of periodic wipe tests, personnel monitoring (film badges, TLDs, PICs, etc.) record keeping and other aspects of our health physics program. Further, I have conducted radiation safety training for our own employees, NASA employees, and DNA employees. I was involved in three underground nuclear tests at the Nevada underground test site ("Misty Rain" - two tests, "Mighty Epic" - one test) which involved safety assessments for personnel entry into the test tunnel, decontamination of test specimens and preparation of activated test specimens for off-site shipment. While on active duty with the US Army, I participated in two "Broken Arrow" incidents, the details of which are classified by DOD - my responsibilities were to conduct Geiger-Muller surveys to locate widely dispersed source material.

Region I, USNRC
June 1, 1990
Page 3.

I believe this background in addition to my extensive managerial experience, my certification as a safety professional and my registration as a Professional Engineer (Safety) fully qualify me to be RSO for the referenced licenses.

If you require further information, please feel free to contact me.

Very truly yours,



Charles B. Chilton, PE, C.S.P.
Manager, Industrial Safety & Hygiene
(215) 354-4570

CBC/jed

CONVERSATION RECORD

TIME 200 p

DATE 5-31-90

TYPE VISIT CONFERENCE TELEPHONE
 INCOMING OUTGOING

ROUTING	
NAME/SYMBOL	INT

Location of Visit/Conference:

NAME OF PERSON(S) CONTACTED OR IN CONTACT WITH YOU
CHARLES CHILTON

ORGANIZATION (Office, dept., bureau, etc.)
GE

TELEPHONE NO.
354-4570

SUBJECT
Amendment Request for 37-02006-05,
37-02006-09 and SUB-831

SUMMARY
In review of above license Amendment requests,
Addtl info. was required.

- Request was for a change in the RSO for all three licenses. Individual appears qualified, but specifics on matters coursework and actual experience with radio isotopes was deficient on ~~at~~ enclosed resume.

Also, informed licensee that there is an abandonment letter pending for renewal of SUB-831. Addtl info needed from J. Kineman.

ACTION REQUIRED

continue actions upon receipt of info.

NAME OF PERSON DOCUMENTING CONVERSATION
MC Roberts

SIGNATURE
MC

DATE
5-31-90

ACTION TAKEN

SIGNATURE

TITLE

DATE



GE Aerospace

April 12, 1990

General Electric Company
P.O. Box 8555, Philadelphia, PA 19101

040-07344

U.S. Nuclear Regulatory Commission
Division of Radiation Safety and Safeguards
Region 1
475 Allendale Road
King of Prussia, PA 19406

References: Byproduct Licence 37-02006-05
Source Licence SUB-831
Irradiator Licence 37-02006-09

Dear Sir or Madam:

The General Electric Co., Aerospace Group requests an amendment to each of the above licences to effect the following change:

- 1) Delete the name Alfred W. Kobylinski as Radiation Safety Officer
- 2) Insert the name Charles B. Chilton as Radiation Safety Officer.

A copy of Mr. Chilton's resume of experience with radioactive material is attached.

Also attached is a check for \$1190.00 to cover the cost of each amendment according to the following schedule:

Licence	Category	Amount
37-02006-05	1D and 3L	\$610
37-02006-09	3E	210
SUB-831	2C	370
Total		\$1190

If there are any questions relative to this request, please contact Charles B. Chilton at 354-4570.

Sincerely,

B. J. Mucha
S. J. Mucha, M.D., Chairman
Ionizing Radiation Advisory Group

/ezb

Log May 10

Remitter [Signature]

Check No. R205769 1190

Amount \$120 See also 1124

Fee Category 2C

Type of Fee A M D

Date Check Rec'd. 5/10/90

Date Completed 5/10/90

By: [Signature]

U.S. N.R.C.
IN: FEE MGMT. BRANCH

90 MAY -7 AM:28

RECEIVED

584112460
(#830 refunded)

112459

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MAY 01 1990

**CHARLES B. CHILTON, MANAGER
INDUSTRIAL SAFETY AND HYGIENE**

Education

B.S. - Virginia Polytechnic Institute, Blacksburg, VA
Agricultural Engineering

M.S. - Temple University, Philadelphia, PA
Industrial Hygiene

Certified Safety Professional - #1410

Registered Professional Engineer in Safety Engineering
State of California - #676

Work Experience

U.S. Army - 6 months active duty, 30 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 - 20 years

Memberships

ASSE

NFPA

AIHA

AIA

Supervised HP activities 20 years

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

Completed two graduate level HP courses (Temple university)

(FOR LFMS USE)
INFORMATION FROM LTS

BETWEEN:

LICENSE FEE MANAGEMENT BRANCH, ARM
AND
REGIONAL LICENSING SECTIONS

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

LICENSE FEE TRANSMITTAL

A. REGION I

1. APPLICATION ATTACHED
APPLICANT/LICENSEE: GENERAL ELECTRIC CO.
RECEIVED DATE: 900501
DOCKET NO.: 4007344
CONTROL NO.: 112459
LICENSE NO.: SU3-331
ACTION TYPE: AMENDMENT

2. FEE ATTACHED
AMOUNT: \$1120.00*
CHECK NO.: 205767

3. COMMENTS
* 112460
112458

SIGNED R. J. Brown
DATE 5/3/90

B. LICENSE FEE MANAGEMENT BRANCH (CHECK WHEN MILESTONE 03 IS ENTERED 1/1)

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

2. CORRECT FEE PAID. APPLICATION MAY BE PROCESSED FOR:
AMENDMENT ✓
RENEWAL
LICENSE

3. OTHER

SIGNED
DATE 5/16/90