



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555-0001

FEB 07 1994

Docket 70-754
License SNM-960
Renewal

Mr. Gene E. Cunningham
Senior Licensing Engineer
General Electric Company
Vallecitos Nuclear Center
P. O. Box 460
Vallecitos Road
Pleasanton, CA 94566

Dear Mr. Cunningham:

SUBJECT: LICENSE RENEWAL (TAC L21419)

In accordance with your application dated December 1, 1992, and supplemented by page changes dated December 3, 1993, and pursuant to Part 70 to Title 10 of the Code of Federal Regulations, Materials License SNM-960 is hereby renewed.

You are hereby advised that any requests for amendment to this license should be submitted in the form of replacement pages to the License Condition sections and, if necessary, to the Safety Demonstration sections with the changes or new items clearly identified. Any amendment application for a new process or major facility change should be supported with a multi-disciplinary safety analysis. This analysis should be well documented and integrate the disciplines of nuclear criticality safety, radiation safety, environment protection, chemical safety, fire protection, and industrial safety. In addition, for the next renewal application, you should consider preparing an integrated safety analysis.

This license is renewed for a 5 year term, expiring February 28, 1999. This renewal is issued following preparation of an Environmental Assessment (EA) and Finding of No Significant Impact (FONSI) related to the continued operation of your plant. Copies of the EA and FONSI were transmitted to you by letter dated January 21, 1994.

In addition, we have reformatted your license by combining into one document the Safety, Safeguards, and Transportation License Conditions.

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Mr. Gene E. Cunningham

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If you have any questions regarding this licensing action, please contact the Project Manager, Mr. Charles E. Gaskin at (301) 504-2649.

Sincerely,

ORIGINAL SIGNED BY

Robert C. Pierson

Robert C. Pierson, Chief
Licensing Branch
Division of Fuel Cycle Safety
and Safeguards, NMSS

Enclosures:

1. License SNM-960
2. Safety Evaluation Report

Distribution: (Control No. 0900)

Docket 70-754.

MMessier, LFDCB

JRoth, FCOB

PDR

FCSS r/f

NMSS r/f

NRC File Center

FCLB r/f

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Region V

FCLSI r/f

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NAME	CGaskin: cw		DRoadley		EKeegan		JRCook	CWemeigh		RCPierson	
DATE	02/3/94		02/7/94		02/3/94		02/ /94	02/7/94		02/7/94	

C = COVER

E = COVER & ENCLOSURE

N = NO COPY

OFFICIAL RECORD COPY

MATERIALS LICENSE

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		FEB 07 1994
1. General Electric Company	3. License number	SNM-960 Renewal
2. P.O. Box 460 Pleasanton, California	4. Expiration date	February 28, 1999
	5. Docket or Reference No	70-754
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. U-235 enriched to less than or equal to 10 percent for authorized activities	A. The material may be in the form of irradiated special nuclear material with its attendant byproduct and reactor-produced transuranics	A. 50 kilograms
B. U-235 enriched to more than 10 percent for authorized activities	B. The material may be in the form of irradiated special nuclear material with its attendant byproduct and reactor-produced transuranics	B. 4 kilograms
C. U-235	C. In any unirradiated form	C. Less than 1 effective kilogram
D. Plutonium	D. Contained or sealed form in addition to the irradiated quantities	D. 100 grams of Plutonium
E. U-233	E. In any form	E. 100 grams of U-233
9. Authorized Place of Use: The licensee's facilities in the Vallecitos Nuclear Center located in Pleasanton, California, as described in Appendix A of their December 1, 1992, application.		

MATERIALS LICENSE
SUPPLEMENTARY SHEET

License number

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10. This licensee shall be deemed to contain three sections: Safety Conditions, Safeguards Conditions, and Transportation Conditions. All these sections are part of the license and the licensee is subject to compliance with all listed conditions in each section.



FOR THE NUCLEAR REGULATORY COMMISSION

A handwritten signature in black ink, appearing to read "Robert C. Pierson", is written over a horizontal line.

Date: 7 FEB 1994

By: Robert C. Pierson
Division of Fuel Cycle Safety
and Safeguards
Washington, DC 20555

**MATERIALS LICENSE
SUPPLEMENTARY SHEET**

License number	SNM-960 Renewal
Docket or Reference number	70-754 TFR 07 1994
SAFETY CONDITIONS	

SAFETY CONDITIONS

- S-1. Authorized Use: For activities in accordance with statements, representations and conditions specified in Appendix A of the licensee's application dated December 1, 1992 (letter dated December 9, 1992), with supplements dated December 3, 1993 (letter dated December 8, 1993).
- S-2. On or before January 28, 1999, the licensee shall submit for NRC review a safety analysis for facility operations, as described in the application.
- S-3. Sealed Plutonium sources shall be subject to the leak testing and actions specified in the attached "License Condition for Leak Testing Sealed Plutonium Sources," dated April 1993.
- S-4. Release of equipment or materials for unrestricted use shall be in accordance with the attached "Guidelines for Decontamination of Facilities and Equipment Prior to Release for Unrestricted Use or Termination of Licenses for Byproduct, Source, or Special Nuclear Material," April 1993.
- S-5. The licensee shall decommission the facilities in accordance with the general decommission plan as submitted by letter dated February 17, 1982. The financial commitment to assure that such decommissioning is accomplished is presented in the licensee's letter of May 14, 1979, and is hereby incorporated as a provision of this license, as renewed.
- S-6. The licensee shall provide to the NRC copies of its annual report summarizing the effluent monitoring and environmental surveillance programs at the Vallecitos Nuclear Center. This report shall be sent to the Chief, Licensing Branch, Division of Fuel Cycle Safety and Safeguards, NMSS, U.S. Nuclear Regulatory Commission, Washington, DC 20555, and the NRC Regional Office-Region V at the address specified in Appendix D of 10 CFR Part 20.
- S-7. Exemptions to the requirements of 10 CFR 70.24, "Criticality Accident Requirements," are hereby granted pursuant to 10 CFR 70.24(d). The exemptions are granted in accordance with Section 5.9, "Monitor Alarm System," of Appendix A of the application as follows:

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SAFETY CONDITIONS

1. The following areas are exempted from monitor alarm requirements:
 - a. Areas where SNM is stored in locations within the United States provided that the SNM is fully packaged as for transport in containers meeting all of the general license requirements of 10 CFR 71 or in containers owned by the General Electric Company and certified for transport under the provisions of 10 CFR 71 in accordance with the conditions of a certificate of compliance authorizing delivery of such containers to a carrier for Fissile Class I transport,
 - b. Building 102 storage pool,
 - c. For each area in which is stored one (1) shipment of packages containing special nuclear material licensed pursuant to 10 CFR 71 for transport outside the confines of the Vallecitos Nuclear Center insofar as the requirements of Section 70.24 pertain to the material contained in such shipments,
 - d. For each area where there is not more than one "safe batch" (as defined in Section 3.11 of Appendix A of the application) of finished reactor fuel rods or assemblies, under conditions which protect against rearrangement of fuel bearing portions into more reactive configurations,
 - e. For each area which meets the requirement of a "subcritical area" as defined in Section 3.14 of Appendix A of the application.
 2. Exception to the maximum preset alarm point of 20 millirems per hour specified in 10 CFR 70.24 is granted for areas described in Section 5.9.3 of Appendix A of the application provided that the maximum preset alarm point does not exceed 500 millirems per hour.
- S-8. Pursuant to 10 CFR 20.106(b), the licensee is hereby authorized to release radioactive materials in accordance with Section 8.9, "Airborne Effluent Control," of Appendix A of the application.
- S-9. The licensee shall establish, maintain, and follow written procedures for carrying out licensed activities. The procedures shall be approved and updated every two years.
- Attachments:
1. LC for Leak Testing Sealed Plutonium Sources dtd 4/93
 2. Guidelines for Decontamination of Facilities and Equipment...4/93

LICENSE CONDITION FOR LEAK TESTING

SEALED PLUTONIUM SOURCES

APRIL 1993

- A. Each plutonium source shall be tested for leakage at intervals not to exceed 6 months. In the absence of a certificate from a transferor indicating that a test has been made within 6 months prior to the transfer, the sealed source shall not be put into use until tested.
- B. The test shall be capable of detecting the presence of 0.005 microcurie of alpha contamination on the test sample. The test sample shall be taken from the source or from appropriate accessible surfaces of the device in which the sealed source is permanently or semipermanently mounted or stored. Records of leak test results shall be kept in units of microcuries and maintained for inspection by the Commission.
- C. If the test reveals the presence of 0.005 microcurie or more of removable alpha contamination, the licensee shall immediately withdraw the sealed source from use and shall cause it to be decontaminated and repaired by a person appropriately licensed to make such repairs or to be disposed of in accordance with the Commission's regulations. Within 5 days after determining that any source has leaked, the licensee shall file a report with the Division of Fuel Cycle Safety and Safeguards, U.S. Nuclear Regulatory Commission, Washington, DC 20555, describing the source, test results, extent of contamination, apparent or suspected cause of source failure, and corrective action taken. A copy of the report shall be sent to the Administrator of the nearest NRC Regional Office listed in Appendix D of Title 10, Code of Federal Regulations, Part 20.
- D. The periodic leak test required by this condition does not apply to sealed sources that are stored and not being used. The sources excepted from this test shall be tested for leakage prior to any use or transfer to another person unless they have been leak tested within 6 months prior to the date of use or transfer.