



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
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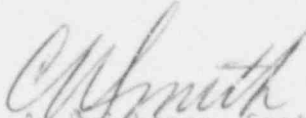
R. G. Page, Chief  
Uranium Fuel Licensing Branch  
Division of Fuel Cycle and  
Material Safety

NOTIFICATION OF INTENDED ACTION BY DIVISION OF SAFEGUARDS

APPLICANT: General Electric Company      LICENSE NO.: SNM-960  
DOCKET NO.: 70-754  
ADDRESS: 175 Curtner Ave.      DATE OF APPLICATION: 5/8/81  
San Jose, CA      MAIL CONTROL NO.: 19135

We have examined the above application and have determined:

- A. No action by this Division is required. We have no objection to your Branch taking appropriate action independently.
- B. Licensing action by this Division is necessary. We will contact you to coordinate simultaneous licensing action with your Branch. Request that SGML be placed in the concurrence chain for your final action on this case.
- C. Special or unusual aspects should be resolved. We will contact you to discuss.
- D. Please inform the licensee of the requirements stated in paragraph 70.61(b), (c), and (d) regarding records, material control and accounting procedures, and physical inventories.

  
R. A. Brightsen, Section Leader  
Commercial Fuel Facilities Section  
Material Control and Accountability  
Licensing Branch

LICENSE CONDITIONS  
FOR  
VALLECITOS NUCLEAR CENTER

Set forth herein are the technical and administrative requirements proposed for governing the receipt, possession and use of the special nuclear material and associated byproduct material, subject to licensing and regulation by the Atomic Energy Commission, in activities other than reactors at General Electric's Vallecitos Nuclear Center near Pleasanton, California.

1.0 AUTHORIZED ACTIVITIES

- The following types of activities are authorized:

1.1 Product Processing Operations

- (a) \*DELETED\*
- (b) \*DELETED\*
- (c) Development Shop: Fabrication, assembly, modification, cleaning and repair of unirradiated encapsulated \*(including encapsulation) experimental assemblies, assembly, modification, cleaning, and repair (but not fabrication) of fuel elements for use in site reactors.\*
- \*(d) Separations Activities: Facilities in which activities are conducted pursuant to a license issued under Parts 30 and 70 of Title 10, Code of Federal Regulations, or equivalent regulations of an Agreement State, for the receipt, possession, use, and transfer of irradiated special nuclear material, which authorizes the use of the irradiated material on a batch basis for the separation of selected fission products and limits the process batch to not more than that authorized by 10CFR50.2(a)(3)iii.\*

License No. SNM-960

Docket No. 70-754

Sect. No. 1.1

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APPENDIX A

Date 5/6/81

Amends Sect.(s) 1.1

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1.2 Laboratory Operations

- (a) Chemical: Analysis of the chemical and isotopic composition, concentration and behavior of special nuclear materials by wet chemistry and physical measurement techniques.
- (b) Metallurgical: Physical analysis and testing of physical and metallurgical properties of special nuclear materials.
- (c) Physics and Health Physics: Measurements of radiation and its effects on instruments and on the structure and composition of materials.
- (d) Hot Labs: Post-irradiation examination, testing and analysis of fuel elements and materials in shielded enclosures by remote manipulative techniques; \*research and development and/or pilot plant activities involving recovery and recycling of waste or nonspecification material.\*
- (e) Research and Development: Including but not limited to the above.

1.3 General Services Operations

- (a) Equipment Maintenance and Engineering: Design, fabrication and testing of equipment containing special nuclear materials and maintenance of such equipment.
- (b) Storage: Storage of irradiated fuel materials other than wastes in shielded containers and locations \*including modification of fuel assemblies.\* Storage of unirradiated special nuclear materials in designated general purpose storage areas.
- \*(c) Transportation and Transfer: Inspection of packaging and preparation for shipment and/or transfer of special nuclear materials. \*

\*(d) Decontamination: Decontamination of equipment and facilities.\*

1.4 Waste Treatment

- (a) Liquids: Concentration of the radioactive constituents of liquid wastes by evaporation, chemical treatment, sedimentation, filtration and ion exchange; agglomeration and packaging of concentrates and discharge of decontaminated effluents.
- (b) Solids: Packaging and storage of wastes contaminated with or containing nonreclaimable special nuclear materials, excluding direct burial in soil.

1.5 Off-Site Activities

Nonnuclear, nondestructive, \*modification,\* demonstration and testing of materials and devices containing unirradiated U-235 and plutonium provided that:

- (a) Such materials and devices shall be in General Electric's possession at all times, and
- (b) Plutonium shall be fully enclosed at all times in containment devices of adequate integrity to prevent escape.

## 2.0 POSSESSION LIMITS

The following quantities of special nuclear materials are authorized:

\***(a) Vallecitos Nuclear Center:**

- (i) U-235. 50 kg enriched to less than 10 per cent for authorized activities. The material may be in the form of irradiated special nuclear material with its attendant by-product and reactor produced transuranics.
- (ii) U-235. 4 kg enriched to more than 10 per cent for authorized activities. The material may be in the form of irradiated special nuclear material with its attendant by-product and reactor produced transuranics.
- (iii) Plutonium. 500 grams in any form in addition to the irradiated quantities as referred to in subsections 2.0(a)(i) and 2.0(a)(ii).
- (iv) U-233. 200 grams in any form.\*

**(b) Locations Other Than Vallecitos Nuclear Center:**

Up to 15 grams of U-235 and plutonium and up to 170 grams of plutonium as encapsulated plutonium-beryllium sources may be used at other sites within the limits of the United States except where the material is subject to licensing by an Agreement State as defined in 10CFR150.

