

U.S. NUCLEAR REGULATORY COMMISSION
CERTIFICATE OF COMPLIANCE
For Radioactive Materials Packages

| 1.(a) Certificate Number | 1.(b) Revision No. | 1.(c) Package Identification No. | 1.(d) Pages No. | 1.(e) Total No. Pages |
|--------------------------|--------------------|----------------------------------|-----------------|-----------------------|
| 5971 | 2 | USA/5971/B() F | 1 | 3 |

2. PREAMBLE

- 2.(a) This certificate is issued to satisfy Sections 173.393a, 173.394, 173.395, and 173.396 of the Department of Transportation Hazardous Materials Regulations (49 CFR 170-189 and 14 CFR 103) and Sections 146-19-10a and 146-19-100 of the Department of Transportation Dangerous Cargoes Regulations (46 CFR 146-149), as amended.
- 2.(b) The packaging and contents described in item 5 below, meets the safety standards set forth in Subpart C of Title 10, Code of Federal Regulations, Part 71, "Packaging of Radioactive Materials for Transport and Transportation of Radioactive Material Under Certain Conditions."
- 2.(c) This certificate does not relieve the consignor from compliance with any requirement of the regulations of the U.S. Department of Transportation or other applicable regulatory agencies, including the government of any country through or into which the package will be transported.

3. This certificate is issued on the basis of a safety analysis report of the package design or application—

3.(a) Prepared by (Name and address):

General Electric Company
P.O. Box 460
Pleasanton, CA 94566

3.(b) Title and identification of report or application:

General Electric Company application dated
February 20, 1980.

3.(c) Docket No. 71-5971

4. CONDITIONS

This certificate is conditional upon the fulfilling of the requirements of Subpart D of 10 CFR 71, as applicable, and the conditions specified in item 5 below.

5. Description of Packaging and Authorized Contents, Model Number, Fissile Class, Other Conditions, and References:

(a) Packaging

(1) Model No.: GE-200

(2) Description

A steel encased lead shielded shipping cask. The cask is a double-walled steel circular cylinder, 20-1/4-inch-diameter by 53 inches high with a central cavity 7-5/8-inch-diameter by 37 inches high. Approximately 5-7/8 inches of lead surround the central cavity. The cask is equipped with a cavity drain line and lifting device. Closure is accomplished by a silicone rubber gasketed and bolted steel lead filled plug. For additional shielding, lead-filled stainless steel liners may be inserted in the cask cavity. A protective jacket consisting of an upright circular cylinder with open bottom and a protruding box section diametrically across the top and vertically down the sides attaches to a square pallet. Dimensions of the protective jacket are 65-3/8 inches high by 37-5/8 inches wide across the box section. The outer cylindrical diameter is 26-3/4 inches and the pallet is 47-1/2 inches square. The maximum weight of the packaging is approximately 10,000 pounds.

5. (a) Packaging (continued)

(3) Drawings

The packaging is constructed in accordance with the following General Electric Company Drawing Nos.:

612D136, Rev. 5
693C293, Rev. 3
985C540, Rev. 2
706E788, Rev. 2
106D3852, Rev. 3
212E236, Rev. 3
693C292, Rev. 5
129D4702, Rev. 0

(b) Contents

(1) Type and form of material

Byproduct and special nuclear material in the form of fuel rods, or plates, fuel assemblies, or meeting special form requirements of 10 CFR §71.4(o).

(2) Maximum quantity of material per package

Radioactive decay heat not to exceed 780 watts and 500 grams U-235 equivalent mass. (U-235 equivalent mass equals U-235 mass plus 1.66 times U-233 mass plus 1.66 times Pu mass.)

(c) Fissile Class

II

Minimum transport index to be shown on label

2.3

6. Shoring shall be provided to minimize movement of contents during accident conditions of transport.
7. At the time of delivery of the loaded package to a carrier for transport, the package contents shall be dry and the fissile material unmoderated (H to X atomic ratio less than 2).
8. Prior to each shipment the silicone rubber lid gasket shall be inspected. This gasket shall be replaced if inspection shows any defects or every twelve (12) months, whichever occurs first. Cavity drain line shall be sealed with appropriate sealant applied to threads of pipe plug.
9. The package authorized by this certificate is hereby approved for use under the general license provisions of 10 CFR §71.12(b).

10. Expiration date: June 30, 1985

REFERENCE

General Electric Company application dated February 20, 1980.

FOR THE U.S. NUCLEAR REGULATORY COMMISSION

Charles E. Mac Donald
Charles E. MacDonald, Chief
Transportation Certification Branch
Division of Fuel Cycle and
Material Safety

JUL 09 1980

Date: _____