

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
9049	3	USA/9049/R( )	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):

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

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

General Electric Company application dated  
February 21, 1980, as supplemented.

3.(c) Docket No. 71-9049

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-500

(2) Description

Steel encased lead shielded shipping cask. A double-walled steel cylinder protective jacket encloses the cask during transport. It is bolted to a steel pallet. The cask is closed by a lead-filled flanged plug fitted with a silicone rubber gasket and bolted closure. The cavity drain line is closed by either a stainless steel or fusible plug (melting point 500°F). The physical description is as follows:

Cask height, in	29.0
Cask diameter, in	28.0
Cavity height, in	7.0
Cavity diameter, in	7.0
Lead shielding, in	10.0
Protective jacket height, in	38.9
Protective jacket width, in	40.75
Packaging weight, lbs	7,800

5. (a) Packaging (continued)

(3) Drawings

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

212E246, Rev. 7	106D3855, Rev. 4
106D3870, Rev. 11	129D4690, Rev. 0
706E790, Rev. 4	

(b) Contents

(1) Type and form of material

(i) Byproduct material meeting special form requirements of 10 CFR §71.4(o); or

(ii) Solid nonfissile irradiated metal hardware and reactor control rods (blades).

(2) Maximum quantity of material per package

Radioactive decay heat not to exceed 780 watts.

6. Shoring shall be provided to minimize movement of contents during accident conditions of transport.
7. Package contents shall be delivered to a carrier dry.
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: July 31, 1985.

REFERENCES

General Electric Company application dated February 21, 1980.

Supplement dated: August 26, 1980.

FOR THE U.S. NUCLEAR REGULATORY COMMISSION

*Charles E. MacDonald*

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

Date: OCT 14 1980