

**CERTIFICATE OF COMPLIANCE
FOR RADIOACTIVE MATERIALS PACKAGES**

1. a. CERTIFICATE NUMBER	b. REVISION NUMBER	c. PACKAGE IDENTIFICATION NUMBER	d. PAGE NUMBER	e. TOTAL NUMBER PAGES
5971	5	USA/5971/B()F	1	3

2. PREAMBLE

- a. This certificate is issued to certify that the packaging and contents described in Item 5 below, meets the applicable safety standards set forth in Title 10, Code of Federal Regulations, Part 71, "Packaging of Radioactive Materials for Transport and Transportation of Radioactive Material Under Certain Conditions."
- b. 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

a. PREPARED BY (Name and Address):

b. TITLE AND IDENTIFICATION OF REPORT OR APPLICATION:

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

General Electric Company application dated
May 30, 1985.

c. DOCKET NUMBER

71-5971

4. CONDITIONS

This certificate is conditional upon fulfilling the requirements of 10 CFR Part 71, as applicable, and the conditions specified below

5.

(a) Packaging

(1) Model No.: 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.

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5. (a) Packaging (continued)

(3) Drawings

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

129D4756, Rev. 1 129D4758, Rev. 1
129D4757, Rev. 0** 129D4759, Rev. 0*

*All components are to be considered safety related.

**Item 14 must be 47.5"x4"x1"

(b) Contents

(1) Type and form of material

- (i) Byproduct and special nuclear material in the form of fuel rods, or plates, fuel assemblies, or meeting the requirements of special form radioactive material; or
- (ii) Solid nonfissile irradiated metal hardware, reactor control rods (blades), and reactor start-up sources.

(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.)

Plutonium in excess of twenty (20) curies per package must be in the form of metal, metal alloy, or reactor elements.

(c) Fissile Class

II

Minimum transport index to be shown on label

Contents 5.(b)(1)(i):

2.3

- 6. Shoring must 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 must be dry and the fissile material unmoderated (H to X atomic ratio less than 2).
- 8. Prior to each shipment (except for contents meeting the requirements of special form radioactive material), the package must be leak tested by a method capable of determining that a leakage of 10^{-3} atm cm³/s at standard temperature and pressure in not exceeded.
- 9. Prior to each shipment, the silicone rubber lid gasket must be inspected. This gasket must be replaced if inspection shows any defects or every twelve (12) months, whichever occurs first. Cavity drain line must be sealed with appropriate sealant applied to threads of pipe plug.

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10. Packaging must be maintained in accordance with Chapter XVII, Cask/Firesield Maintenance, in Enclosure E of General Electric Company's application dated November 15, 1984, as cited in Certificate of Compliance No. 5980.
11. Fabrication of additional packagings is not authorized.
12. The package authorized by this certificate is hereby approved for use under the general license provisions of 10 CFR §71.12.
13. Expiration date: July 31, 1990.

REFERENCE

General Electric Company application dated May 30, 1985.

FOR THE U.S. NUCLEAR REGULATORY COMMISSION

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

Date: JUL 19 1985



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

Transportation Certification Branch
Approval Record
Model No. 200 Package
Docket No. 71-5971

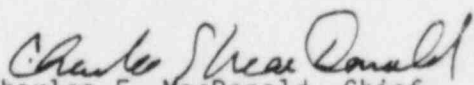
By application dated May 30, 1985, General Electric Company requested renewal of Certificate of Compliance No. 5971 for the Model No. 200 (formerly GE-200) packaging. A consolidated application was submitted which incorporated the consolidated application of February 20, 1980, and all pertinent supplement information.

A review of the consolidated application confirmed that all pertinent supplement information along with the application of February 20, 1980, has been incorporated into the consolidated application. The application has been expanded to include a section on operating procedures which covers both dry and wet loading and unloading operations. The applicant has also revised two of the packaging drawings to show an optional silicone gasket detail. This same gasket detail is authorized by Certificate of Compliance No. 5980 for the Model No. GE-600 packaging.

The consolidated application does not contain a maintenance program. The applicant's letter of May 30, 1985, states that the maintenance program contained in the Model No. GE-600 application (Docket 71-5980) are generic and applicable to the Model No. 200. The consolidated application makes no specific reference to the Model No. GE-600 maintenance program. Therefore the certificate of compliance has been conditioned to require the Model No. 200 packaging to be maintained in accordance with the specific maintenance program cited by the condition.

The applicant has stated that they do not currently plan to obtain new packagings and for this reason, the consolidated application does not address the requirements of 10 CFR §71.85. The certificate of compliance has been conditioned to preclude the fabrication of additional packagings. The certificate of compliance has been further conditioned to require leak testing of the package prior to each shipment for authorized contents other than contents meeting the requirements of special form radioactive material.

Based on the staff's review of the consolidated safety analysis report and the conditions stipulated in the certificate of compliance, the staff concludes that the requirement for renewal of the certificate of compliance has been satisfied.


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

Date: JUL 19 1985