NRC FORM 618
(9-83)
10 CFR 71

U.S. NUCLEAR REGULATORY COMMISSION

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	10	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 and Transportation of Radioactive Material."

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. ISSUED TO (*Name and Address*)

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

b. TITLE AND IDENTIFICATION OF REPORT OR APPLICATION

General Electric Company application dated May 30, 1985, as supplemented.

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.: IPO-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.:

129D4756, Rev. 2	129D4758, Rev. 4
129D4757, Rev. 0	129D4759, Rev. 0*

*All components are to be considered safety related.

(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 cm^3/s at standard temperature and pressure is 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.

10. In addition to the requirements of Subpart G of 10 CFR Part 71:

    (a) Each package must be maintained in accordance with the Maintenance Procedures listed in the application dated June 21, 1990, and the supplement dated January 16, 1991; and

    (b) The package must be prepared for shipment and operated in accordance with the Operating Procedures of the supplement dated January 16, 1991.

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, 1995.

REFERENCES

General Electric Company application dated June 21, 1990.

Supplement dated: January 16, 1991.

FOR THE U.S. NUCLEAR REGULATORY COMMISSION

Charles E. MacDonald, Chief
Transportation Branch
Division of Safeguards
and Transportation, NMSS

Date: FEB 18 1991

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

Approval Record
Model No. IPO-200 Package
Certificate of Compliance No. 5971
Revision 10

By application dated June 21, 1990, as supplemented on January 16, 1991, General Electric Company requested renewal of Certificate of Compliance No. 5971, for the Model No. IPO-200 shipping package. In support of the request, a consolidated application was submitted which incorporates the application and supplements referenced in Revision 9 of the certificate.

The only changes made in the request for renewal were operating procedures and maintenance procedures. These procedures were reviewed by the staff and were found to be adequate. The Certificate of Compliance has been conditioned to require that the package be prepared for shipment in accordance with the Operating Procedures and be maintained in accordance with the Maintenance Procedures listed in the application, as supplemented.

The certificate of compliance has been renewed for a five year period which expires July 31, 1995.

Charles E. MacDonald, Chief
Transportation Branch
Division of Safeguards
and Transportation, NMSS

Date: FEB 13 1991