

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
9018	2	USA/9018/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 780 Wilmington, NC 28401	3.(b) Title and identification of report or application: General Electric Company application dated May 24, 1974.
	3.(c) Docket No. 71-9018

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.: BU-6.
- (2) Description

The packaging consists of a one-half gallon, minimum 26-gauge steel inner container with a bolted and gasketed top flange closure. The inner container, 5-1/8 inches in diameter by 5-3/4 inches in height (inside dimensions), is centered and supported within an outer 10-gallon capacity, 18-gauge steel drum by a solid insulating media composed of vermiculite and plyamine bonding material.

(3) Drawing

The container, Military Standard Spec. No. 27684-7, is constructed in accordance with Fig. 1.7.1, Appendix D, of General Electric Company's application dated May 24, 1974.

(b) Contents

(1) Type and form of material

- (i) Uranium compounds with a maximum bulk density not greater than 10.96 grams/cc. which together with any other associated materials do not decompose at temperatures up to 190°F. Uranium may be enriched to a maximum 4.0 w/o in the U-235 isotope.

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(b) Contents (continued)

(ii) Uranium oxides with a maximum bulk density not greater than 10.96 grams/cc. Uranium may be enriched to a maximum 5.0% in the U-235 isotope. The maximum H/U-235 atomic ratio considering all sources of hydrogenous material within the inner container shall not exceed 0.45.

(2) Maximum quantity of material per package

(i) For the contents described in 5(b)(1)(i):

The maximum contents per package for the maximum U-235 enrichment shall be limited in accordance with the following table:

Maximum U-235 enrichment, w/o	Maximum UO ₂ per package, kgs
3.0	44.5
3.2	38.9
3.4	34.6
3.6	31.1
3.8	28.3
4.0	25.7

(ii) For the contents described in 5(b)(1)(ii):

The maximum contents per package for the maximum U-235 enrichment shall be limited in accordance with the following table:

Maximum U-235 enrichment, w/o	Maximum UO ₂ per package, kgs
3.0	44.5
3.2	38.9
3.4	34.6
3.6	31.1
3.8	28.3
4.0	25.7
4.2	23.7
4.4	21.9
4.6	20.2
4.8	19.1
5.0	18.1

(c) Fissile Class

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6. The four, 1/4-inch diameter holes located near the top of the outer drum as shown in Fig. 1.7.1 shall be covered with weatherproof tape to preclude the entry water.
7. The density of the package insulation shall not be less than 6.88 grams/in³.
8. The package authorized by this certificate is hereby approved for use under the general license provisions of 10 CFR §71.12(b).
9. Expiration date: July 31, 1984.

REFERENCE

General Electric Company application dated May 24, 1974.

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: JUL 12 1979

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