

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
9022	4	USA/9022/AF	1	2

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 146-10a 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, meet 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):

Combustion Engineering Co., Inc.  
1000 Prospect Hill Road  
Windsor, CT 06095

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

Combustion Engineering, Inc. application dated  
January 11, 1980, as supplemented.

3.(c) Docket No. 71-9022

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.: CE-250-2

(2) Description

The packaging consists of a 16-gauge steel containment vessel, 11-5/8 inches ID by 57-1/4 inches long with a bolted and gasketed top flange closure and steel welded bottom plate. The containment vessel is centered and supported in a 22-1/2-inch ID by 68-3/8-inch long, 16-gauge steel drum by twelve (12), 1/4-inch diameter spring steel rods welded to the containment vessel at the top flange and the bottom of the vessel. The void space between the containment vessel and outer container is filled with vermiculite.

Closure of the containment vessel is maintained by a rubber gasket and six (6), 1/2-inch hex head bolts and nuts. The outer container closure is made with a 12-gauge bolt locking ring with drop forged lugs, one of which is threaded, having a 5/8-inch diameter bolt and lock nut.

The gross weight of the packaging and contents is approximately 575 pounds.

(3) Drawing

The packaging is constructed in accordance with Combustion Engineering Company, Inc. Drawing No. NFM-E-22175, Revision 00.

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5. (b) Contents

(1) Type and form of material

Dry uranium oxide pellets and powder enriched to a maximum 4.1 w/o in the U-235 isotope. The maximum H/U atomic ratio, considering all sources of hydrogenous material within the containment vessel shall not exceed 2.26.

(2) Maximum quantity of material per package

The total contents not to exceed 300 pounds, with the U-235 content not to exceed 4.5 kilograms. The contents shall be contained within sealed stainless steel containers with a maximum cross sectional area of 73.2 square inches.

(c) Fissile Class

II

Minimum transport index to be shown on label

0.6

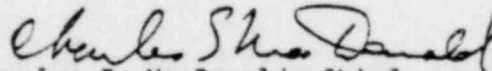
6. Spacers and product containers shall be used to provide a snug axial fit of the product containers within the containment vessel.
7. Attachment of handle (Item 18, Drawing No. NFM-E-Z2175) to outer lid is not authorized.
8. The package authorized by this certificate is hereby approved for use under the general license provisions of 10 CFR §71.12(b).
9. Expiration date: June 30, 1985.

REFERENCES

Combustion Engineering, Inc. application dated January 11, 1980.

Supplement dated: June 6, 1980.

FOR THE U.S. NUCLEAR REGULATORY COMMISSION



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

Date:         JUN 19 1980