NRC FORM 618
(6-83)
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
9022	10	USA/9022/AF	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*)

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

b. TITLE AND IDENTIFICATION OF REPORT OR APPLICATION

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

c. DOCKET NUMBER 71-9022

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.: 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 gasket (either silicone rubber or asbestos and rubber) 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-Z2175, Revision 02.

(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 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. The containment vessel closure gasket (Item No. 12, Drawing No. NFM-E-Z2175, Rev. 02) must be made of silicone rubber, or an Anchor Packing Company gasket "Target" or "425."

7. Spacers and product containers shall be used to provide a snug axial fit of the product containers within the containment vessel.

8. The package authorized by this certificate is hereby approved for use under the general license provisions of 10 CFR §71.12.

9. Expiration date: June 30, 1990.

REFERENCES

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

Supplement dated: June 6, 1980.

Exxon Nuclear Company supplement dated: May 13, 1981.

FOR THE U.S. NUCLEAR REGULATORY COMMISSION

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

Date: JUN 2 4 1985

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

Transportation Certification Branch
Approval Record
Model No. CE-250-2 Package
Docket No. 71-9022

By application dated May 16, 1985, Combustion Engineering, Inc. requested renewal of Certificate of Compliance No. 9022. No changes have been requested or made to the package since approval of the latest supplement dated May 13, 1981.

Combustion Engineering, Inc. has revised the packaging drawing incorporating Conditions 6, 8, and 9 of the present certificate of compliance. Accordingly, Conditions 8 and 9 have been deleted from the certificate. However, as a result of reducing the size of the packaging drawing, the gasket information for Item 12 is not legible, therefore, Condition 6 has not been deleted.

The staff concludes that the statements of the original application, as supplemented, satisfy the requirement for renewal of the certificate of compliance.

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

Date: JUN 2 4 1985