

U.S. NUCLEAR REGULATORY COMMISSION
CERTIFICATE OF COMPLIANCE
For Radioactive Materials Packages

1.(a) Certificate Number 9022	1.(b) Revision No. 2	1.(c) Package Identification No. USA/9022/AF	1.(d) Pages No. 1	1.(e) Total No. Pages 3
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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):

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

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

Application by letter dated July 12, 1974.

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 inner container, 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 inner container is centered and supported in a 22-1/2 inch ID by a minimum of 68-3/4 inches long, 16-gauge steel drum by 1/4 inch diameter spring steel rods and vermiculite. The weight of the package is approximately 575 pounds when loaded and is constructed in accordance with Combustion Engineering Company Drawing No. NPM-E-3471.

(b) Contents

(1) Type and form of material

(i) Dry uranium oxide pellets and powder enriched to a maximum 4.0 w/o in the U-235 isotope. The maximum H/U atomic ratio, considering all sources of hydrogenous material within the inner container shall not exceed 1.13.

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1062 196

5. (b) (1) Contents (continued)

(ii) Uranium oxide enriched to a maximum 3.5 w/o in the U-235 isotope. Chemically-bound or physically-bound water in mixtures is permitted. Slips or slurries that exhibit a visually discernible liquid second phase are prohibited.

(2) Maximum quantity of material per package

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

The total contents not to exceed 250 pounds, with the U-235 content not to exceed 3.0 kilograms. The contents may be contained within sealed steel or Fiberpak product containers.

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

Total contents not to exceed 250 pounds, with the U-235 content not to exceed 2.95 kg. The contents shall be contained within two (2) 9.75 inch diameter by 12 inch high sealed stainless steel cans.

(c) Fissile Class

II and III

(1) Minimum transport index to be shown on label for Fissile Class II:

(i) For the Contents described in 5(b)(1)(i) and limited in 5(b)(2)(i):

0.6

(ii) For the Contents described in 5(b)(1)(ii) and limited in 5(b)(2)(ii):

2.0

(2) Maximum number of packages per shipment per Fissile Class III:

(i) For the Contents described in 5(b)(1)(i) and limited in 5(b)(2)(i):

200

(ii) For the Contents described in 5(b)(1)(ii) and limited in 5(b)(2)(ii):

56

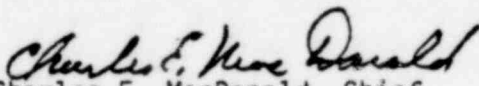
6. Spacers and product containers shall be used to provide a snug axial fit of the product containers within the inner container.
7. The package authorized by this certificate is hereby approved for use under the general license provisions of Paragraph 71.12(b) of 10 CFR Part 71.
8. Expiration date: January 31, 1980.

REFERENCES

Combustion Engineering, Inc. application dated July 12, 1974, requesting approval to deliver special nuclear material to a carrier for transport in the Model No. CE-250-2 packaging.

Supplement dated: February 20, 1976.

FOR THE U.S. NUCLEAR REGULATORY COMMISSION


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

Date: SEP 14 1979