



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

MAR 11 1977

release

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File

3-11-77

FCTR:RHO
71-6294

Combustion Engineering, Inc.
ATTN: Mr. H. K. Eskridge
Route 21-A
Hematite, Missouri 63047

Gentlemen:

Enclosed is Certificate of Compliance No. 6294, Revision No. 1, for the Model No. UNC-2901 shipping package. This certificate supersedes, in its entirety, Certificate of Compliance No. 6294, Revision No. 0, dated February 6, 1975.

Changes made to the enclosed certificate are indicated by vertical lines in the margin.

Combustion Engineering, Inc., The Babcock & Wilcox Company, General Atomic Company, and United Nuclear Corporation have been registered as users of this package under the general license provisions of Paragraph 71.12(b) of 10 CFR Part 71 or 49 CFR § 173.393a.

This approval constitutes authority to use this package for shipment of radioactive material and for the package to be shipped in accordance with the provisions of 49 CFR § 173.393a.

Sincerely,

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

Enclosure:
As stated

cc: See Next Page

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Combustion Engineering, Inc. - 2 -

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cc: w/enc1

Mr. Alfred W. Grella
Department of Transportation

The Babcock & Wilcox Company
ATTN: Mr. Robert A. Williams
609 North Warren Avenue
Apollo, Pennsylvania 15613

General Atomic Company
ATTN: Mr. William R. Mowry
P.O. Box 81608
San Diego, California 92138

United Nuclear Corporation
ATTN: Mr. William F. Kirk
67 Sandy Desert Road
Uncasville, Connecticut 06382

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

1.(a) Certificate Number 6294	1.(b) Revision No. 1	1.(c) Package Identification No. USA/6294/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.
Route 21-A
Hematite, Missouri 63047

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

United Nuclear Corporation application
dated April 10, 1970, as supplemented.

3.(c) Docket No. 71-6294

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 Number : UNC-2901

(2) Description

A maximum 10.80-inch square by 30-inch long inner container constructed of minimum 14-gage steel, with bolted and gasketed top flange closure and sealed welded bottom sheet. Inner container is centered and supported in a 22.5-inch ID by 34-inch high 18-gage steel drum with 16-gage head and DOT Specification 17H closure by asbestos sheet, plywood, hardboard, and insulating material.

(3) Drawing

The Model No. UNC-2901 container is constructed in accordance with United Nuclear Corporation Drawing No. D-5007-8086, Rev. 2.

5. (b) Contents

(1) Type and form of material

Uranium dioxide as powder or sintered pellets. Uranium may be 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 inner container for power or within the boundary of the pellet array for pellet packages, shall not exceed 4.5.

(2) Maximum quantity of material per package

- (i) 427 pounds and 4.81 kgs U-235 as sintered pellets enriched to a maximum 3.75 w/o in the U-235 isotope, or 3.94 kgs U-235 as sintered pellets enriched to a maximum 4.1 w/o in the U-235 isotope. Pellets shall be packaged in accordance with United Nuclear Corporation Drawing No. D-5008-8192, Rev. 4.
- (ii) 230 pounds and 3.61 kgs U-235 as powder or sintered pellets packaged in accordance with United Nuclear Corporation Drawing No. A-5007-2001.

(c) Fissile Class

II and III

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

2.0

- (2) Maximum number of packages
per shipment for Class III

50

6. 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.

7. Expiration date: February 28, 1980.

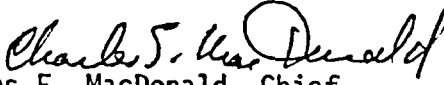
REFERENCES

United Nuclear Corporation application dated April 10, 1970.

Supplements dated: April 24, July 7, and December 11, 1970; and April 15, 1971.

Combustion Engineering, Inc., application dated February 5, 1975.

FOR THE U.S. NUCLEAR REGULATORY COMMISSION


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

Date: MAR 11 1977