

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

1.(a) Certificate Number 5828	1.(b) Revision No. 1	1.(c) Package Identification No. USA/5828/B()F	1.(d) Pages No. 1	1.(e) Total No. Pages 2
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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 4 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):
Los Alamos Scientific Laboratory
University of California
Los Alamos, NM 87545

3.(b) Title and identification of report or application:
"Safety Analysis Report for the TREAT Capsule
Assembly Shipping Container," Report No.
LA-6606-MS, December 1976.

3.(c) Docket No. 71-5828

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.: TREAT

(2) Description

Packaging for TREAT capsule assemblies. The inner container is a 1-inch thick plywood box; covered with 14-gage steel sheet; with an interior "T" beam; and 0.020-inch cadmium lining on the top, bottom, and on each side of the central divider; and a hinged cover. An outer container consists of two cylindrical metal tubes, separated by 3 inches of phenolic foam, and a support assembly for the inner container. The outer container is held within a metal truss framework. The package gross weight is 1800 lbs.

(3) Drawings

The packaging is as shown in Figures 2, 4, 5 and 6 of Los Alamos Report No. LA-6606-MS, December 1976.

5. (continued)

(b) Contents

(1) Type and form of material

Fast reactor fuel pin contains plutonium which is hermetically sealed in 316 stainless steel thin wall tube which is further encapsulated in a 1.125 O.D., 316 stainless steel with welded or brazed end caps and contained within a 3-inch O.D. by 1/4-inch thick wall steel pipe. The capsule assembly is as shown in Figures 1 and 3 of Los Alamos Report No. LA-6606-MS, December 1976.

(2) Maximum quantity of material per package

Not more than two fast reactor fuel pins. Fissile material not to exceed 60 grams per cm over package length. Total plutonium or other fissile material not to exceed 2.1 kg.

(c) Fissile Class

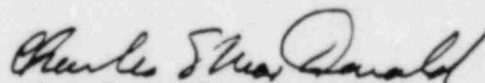
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6. Expiration date: October 31, 1987.

REFERENCE

"Safety Analysis Report for the TREAT Capsule Assembly Shipping Container," Los Alamos Scientific Laboratory Report No. LA-6606-MS, December 1976.

FOR THE U.S. NUCLEAR REGULATORY COMMISSION



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

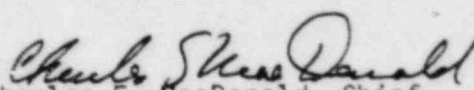
OCT 19 1982

Date: _____

U.S. Nuclear Regulatory Commission
Transportation Certification Branch
Approval Record
Model No. TREAT
Docket No. 71-5828

By application dated September 21, 1982, Department of Energy, Albuquerque Operations Office, requested renewal of Certificate of Compliance No. 5828. No changes have been requested or made to the package since approval of Safety Analysis Report No. LA-6606-MS dated December 1976.

The staff concludes that the statements of the original application satisfy the requirement for renewal of the Certificate of Compliance.


Charles E. MacDonald, Chief
Transportation Certification Branch
Division of Fuel Cycle and
Material Safety, M55

Date: OCT 1⁹ 1982