

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

1.(a) Certificate Number 6677	1.(b) Revision No. 3	1.(c) Package Identification No. USA/6677/B( )	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 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): E. I. duPont de Nemours & Company Savannah River Plant Aiken, SC 29801	3.(b) Title and identification of report or application: E. I. duPont Nemours & Company Report No. DPSPU-74-124-4, May 1975, Rev. 1, 4/78. 3.(c) Docket No. 71-6677
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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.: LP-12

Packaging for large quantities of tritium. The containment vessel is a nominal 12 liter 347 stainless steel vessel fitted with a stainless steel vacuum valve assembly. The containment vessel is 9-1/2-inch O.D. by 11 inches high with a 0.062 inch wall thickness. The containment vessel is secured within a closed and sealed aluminum bucket with a 10-inch O.D., 20 inches high and minimum 3/16-inch thick walls. The aluminum bucket is centered and supported within an 18-gage, 19-1/4-inch O.D. by 30-inch high steel drum using celotex insulation. The drum is closed using a bolted locking ring. The package gross weight is 130 pounds.

(2) Drawings

The packaging is fabricated in accordance with DuPont Drawing Nos.: S5-2-731, Rev. 3; S5-2-5732, Rev. 3; S4-2-148, Rev. 16; S5-2-140, Rev. 3; and S4-2-633, Rev. 1.

5. (b) Contents

(1) Type and form of material

Tritium gas in mixture with other gases.

(2) Maximum quantity of material per package

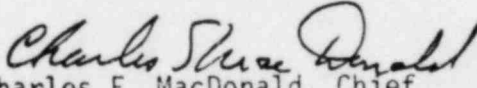
Not more than 12,700 cm<sup>3</sup> of tritium at STP (1 atm, 25°C), and a maximum activity of 32,800 Curies.

6. The maximum internal fill pressure in the primary containment vessel shall not exceed 16.44 psia at 25°C (77°F).
7. Acceptance, maintenance and use of the package shall be in accordance with the procedures and requirements of Chapters 6 and 7 of DuPont Report No. DPSPU-74-124-4, May 1975, Rev. 1, 4/78.
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: September 30, 1987.

REFERENCE

E.I. du Pont de Nemours and Company Report No. DPSPU-74-124-4, May 1975, Rev. 1, 4/78.

FOR THE U.S. NUCLEAR REGULATORY COMMISSION

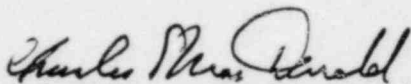
  
Charles E. MacDonald, Chief  
Transportation Certification Branch  
Division of Fuel Cycle and  
Material Safety

Date: SEP 17 1982

U.S. Nuclear Regulatory Commission  
Transportation Certification Branch  
Approval Record  
Model No. LP-12 Packaging  
Docket No. 71-6677

By application dated August 13, 1982, Department of Energy, Safety Engineering and Analysis Division, requested renewal of Certificate of Compliance No. 6677. No changes have been requested or made to the package since approval of Revision 1 dated April 1978 to the Safety Analysis Report No. DPSPU-74-124-4 dated May 1975.

The staff concludes that the statements of the original application as supplemented by the April 1978 revision satisfies 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: SEP 17 1982