

**CERTIFICATE OF COMPLIANCE
FOR RADIOACTIVE MATERIALS PACKAGES**

1. a. CERTIFICATE NUMBER 71-9127	b. REVISION NUMBER 6	c. PACKAGE IDENTIFICATION NUMBER USA/9127/B(U)	d. PAGE NUMBER 1	e. TOTAL NUMBER PAGES 2
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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 and Transportation of Radioactive Material."
- 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. ISSUED TO (Name and Address)

b. TITLE AND IDENTIFICATION OF REPORT OR APPLICATION

Amersham Corporation
40 North Avenue
Burlington, MA 01803

Amersham Corporation application dated
March 9, 1989 as supplemented

c. CHECK NUMBER 71-9127

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 Nos.: 100, 100A, 200 and 200A
- (2) Description

A steel encased, uranium shielded radiographic device. The shipping container is approximately 21 inches long, 23 inches wide and 42 inches high. The radioactive source assembly is housed in a Zircalloy or titanium "S" tube. The tube is surrounded by depleted uranium metal as shielding material. The depleted uranium shield assembly is encased in a steel housing. The void space between the depleted uranium shield assembly and the outer container is filled with a polyurethane foam. The gross weight of the container is 500 pounds.

(3) Drawings

The packaging is constructed in accordance with Gamma Industries Drawing Nos. 821-1001-128, Rev. 2; Sheets 1 and 2.

(b) Contents

(1) Type and form of material

Cobalt 60 as sealed sources that meet the requirements of special form radioactive material.

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(2) Maximum quantity of material per package

<u>Model No.</u>	<u>Quantity</u>
100 and 100A	100 curies
200 and 200A	200 curies

6. The source shall be secured in the shielded position of the packaging, the safety plug assembly, source assembly and lockbox assembly. The components used to secure the source must be fabricated of materials capable of resisting a 1475°F fire environment for one-half hour and maintaining their positioning function. The ball stop of the source assembly must engage the locking device. The flexible cable of the source assembly and safety plug assembly must be of sufficient length and diameter to provide positive positioning of the source in the shielded position.
7. The can and side plates must be a minimum of 1/4-inch thick carbon steel. The can and side plates shall be joined by full penetration welds. All other welds shall be fillet welds having sufficient throat thickness to develop strength equal to or greater than the metals being joined.
8. The nameplates shall be fabricated of materials capable of resisting the fire test of 10 CFR Part 71 and maintaining their legibility.
9. In addition to the requirements of Subpart G of 10 CFR Part 71, the package must be operated and maintained in accordance with the procedures in Section 7.5.1 of the application.
10. Fabrication of new packages is not authorized.
11. The package authorized by this certificate is hereby approved for use under the general license provisions of 10 CFR §71.12.
- 12.. Expiration date: October 31, 1994.

REFERENCES

Gamma Industries application dated March 9, 1989.

Supplement dated: August 21, 1989.

FOR THE U.S. NUCLEAR REGULATORY COMMISSION

Charles E. MacDonald
 Charles E. MacDonald, Chief
 Transportation Branch
 Division of Safeguards and
 Transportation, NMSS

Date: OCT 12 1989



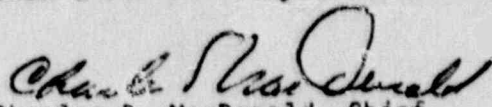
UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D. C. 20555

Transportation Certification Branch
Approval Record
Model 100, 100A, 200, 200A
Docket No. 71-9127
Revision 6

By application dated March 9, 1989, Amersham Corp. requested renewal of Certificate of Compliance No. 9127. No changes to the package were requested.

The certificate has been conditioned to require the package to be prepared for shipment, operated, and maintained in accordance with the procedures in the application as supplemented. The applicant did not provide revised drawings or specify acceptance tests for new packages. The certificate has been conditioned to preclude the fabrication of new packages.

The certificate of compliance has been renewed for a five year term which expires October 31, 1994.


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

Date: OCT 12 1989