

11-9033



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Mr. Robert L. Baer, Chief
Source Containment and Devices Branch
Nuclear Material Safety and Safeguard
United States Nuclear Regulatory Commission
Washington, DC 20555

Dear Mr. Baer:

In accordance with 10 CFR 71.72(c).(3), Decisive Testing Inc., Radioactive Material
Licence # 1836-80, Amendment #46, requests to be registered as a user of Amersham
Corporation, Model 660B, Package identification Number USA/9033/B(u), under terms
of Certificate of Compliance Number 9033 issued to Amersham Corporation,
Burlington, MA.

Sincerely,

Michael R. May
RSO/ President

MRM/jac

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CERTIFICATE OF COMPLIANCE
FOR RADIOACTIVE MATERIALS PACKAGES

U.S. NUCLEAR REGULATORY COMMISSION

1. CERTIFICATE NUMBER	2. REVISION NUMBER	3. PACKAGE IDENTIFICATION NUMBER	4. PAGE NUMBER	5. TOTAL NUMBER PAGES
9033	10	USA/9033/B(U)	1	2

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
September 24, 1993, as supplemented.

c. DOCKET NUMBER

71-9033

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 No.: 660, 660E, 660A, 660AE, 660B or 660BE

(2) Description

A steel encased uranium shielded Gamma Ray Projector. Primary components consist of an outer steel shell, polyurethane potting material, uranium shield, "S" tube, and end plugs. The contents are securely positioned in the "S" tube by a source cable locking device and shipping plug. Tamper-proof seals are provided on the packaging. The maximum total weight of the package is approximately 53 pounds.

(3) Drawings

The packaging is constructed in accordance with the following Technical Operations, Inc. Drawings:

- (i) Model No. 660B - Drawing No. 66025, Sheets 1, 2 and 3, Rev. F;
- (ii) Model No. 660 - Drawing No. 66025, Sheets 1, 2, 3, and 4, Rev. B; or Drawing No. 66030, Sheets 1, 2, 3 and 4, Rev. -;
- (iii) Model No. 660A - Drawing No. 66030, Sheets 1, 2 and 3, Rev. A; or Drawing No. 66030, Sheets 1, 2, and 3, Rev. D.

Model Nos. with an E suffix have an electrical circuit.

(b) Contents

(1) Type and form of material

Iridium-192 sources which meet the requirements of special form radioactive material.

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5. (b) Contents (continued)

(2) Maximum quantity of material per package

- (i) 140 Curies for the Model No. 660B or 660BE package.
- (ii) 120 Curies for the Model No. 660, 660E, 660A or 660AE package.

6. The source shall be secured in the shielded position of the packaging by the source assembly. The source assembly must be fabricated of materials capable of resisting a 1475 °F fire environment for one-half hour, and maintaining their positioning function. The source assembly must engage the locking device. The source assembly must be of sufficient length and diameter to provide positive positioning of the source within the depleted uranium shield assembly.
7. The source assembly for use with this packaging is limited to Technical Operations, Inc. Model No. 424-9 as shown in Technical Operations, Inc. Drawing No. 42409, Rev. C.
8. The name plate must be fabricated of materials capable of resisting the fire test of 10 CFR Part 71 and maintaining its legibility.
9. In addition to the requirements of Subpart G of 10 CFR Part 71
- (a) The package must meet the Acceptance Test and Maintenance Program of Chapter 8.0 of the application, as supplemented; and
 - (b) The package shall be prepared for shipment in accordance with the Operating Procedures in Chapter 7.0 of the application, as supplemented.
10. The package authorized by this certificate is hereby approved for use under general license provisions of 10 CFR §71.12.
11. Expiration date: October 31, 2000

REFERENCES

Amersham Corporation Application dated September 24, 1993.

Supplement dated: March 31, 1994; June 28, 1995.

FOR THE U.S. NUCLEAR REGULATORY COMMISSION

Cass R. Chappell

Cass R. Chappell, Section Leader
Cask Certification Section
Spent Fuel Project Office
Office of Nuclear Material Safety
and Safeguards

AUG 10 1995

Date: _____