

CERTIFICATE OF COMPLIANCE FOR RADIOACTIVE MATERIALS PACKAGES

Table with 5 columns: a. CERTIFICATE NUMBER (9029), b. REVISION NUMBER (6), c. PACKAGE IDENTIFICATION NUMBER (USA/9029/B()), d. PAGE NUMBER (1), e. TOTAL NUMBER PAGES (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

Amersham Corporation
40 North Avenue
Burlington, MA 01803

Technical Operations, Inc. application dated
September 10, 1979, as supplemented.

71-9029

4. CONDITIONS

This certificate is conditional upon fulfilling the requirements of 10 CFR Part 71, as applicable, and the conditions specified below.

b.

(a) Packaging

- (1) Model No.: 676 and 676E
(2) Description

A steel encased, uranium shielded Gamma Ray Projector. Primary components consist of an outer steel shell, internal bracing, polyurethane potting material, depleted uranium shield, and an "S" tube. The contents are securely positioned in the "S" tube by a source cable locking device and shipping plug. Temper-proof seals are provided on the packaging and a 1/4-inch thick steel shipping plate is bolted over the source locking mechanism for additional protection during transport. The total weight of the package is approximately 545 pounds.

(3) Drawings

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

- 67690, Sheets 1, 2, 3, 4 and 5 of 5, Rev D
66025, Sheets 2 and 3 of 3, Rev. A

Page 2 - Certificate No. 9029 - Revision No. 6 - Docket No. 71-9029

5. (b) Contents

(1) Type and form of material

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

(2) Maximum quantity of material per package

330 curies.

6. The source shall be secured in the shielded position of the packaging by the shipping plug, source assembly, and locking device. The shipping plug, source assembly used must be fabricated of materials resisting a 1475°F fire environment of 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 shipping plug must be of sufficient length and diameter to provide positive positioning of the source in the shielded position.
7. The nameplates shall be fabricated of materials capable of resisting the fire test of 10 CFR Part 71 and maintaining their legibility.
8. The package shall be prepared for shipment and operated in accordance with Chapter 7 of the application.
9. Each package must be maintained in accordance with the maintenance program in Chapter 8 of the application and 10 CFR §71.87.
10. The package authorized by this certificate is hereby approved for use under the general license provisions of 10 CFR §71.12.
11. Expiration date: October 31, 1994.

REFERENCES

Technical Operations, Inc. application dated September 10, 1979.

Supplements dated: October 4, 1979, September 4, 1984, and July 5, 1989.

FOR THE U.S. NUCLEAR REGULATORY COMMISSION

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

Date: _____

107 10 1995



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

Transportation Branch
Approval Record
Model Nos. 676 and 676E Packages
Docket No. 71-9029

By application dated July 5, 1989, Amersham Corporation requested that the Certificate of Compliance No. 9029 be renewed for a five year period. No changes to the package were requested.

Revised descriptive assembly drawings were provided, which corrected earlier errors in the measurement of the package. Staff reviewed these drawings and determined that the changes have no effect on the structural integrity of the package.

Revision No. 5 of the certificate of compliance is issued to Amersham Corporation instead of Technical Operations, the previous certificate holder, since Amersham acquired Technical Operations, Inc. Amersham Corporation will be responsible for the maintenance of the certificate, the safety analysis report for the package design, and the quality assurance records in accordance with 10 CFR §71.91(c). Amersham Corporation has been previously issued Quality Assurance Program Approval for Radioactive Material Packages No. 71-0040.

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

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

Date: 10/31/94

LIST OF USERS FOR CERTIFICATE - 9029
FOR MODEL - 676

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ATLANTIC RESEARCH CORP. ATTN: MR. M. W. GROVE 5945 WELLINGTON ROAD GAINESVILLE	VA	22065
CHICAGO BRIDGE & IRON CO. ATTN: MR. RONALD W. KRUSIC P. O. BOX 41146 HOUSTON	TX	77241
DEPARTMENT OF ENERGY ATTN: MR. E. MCCALLUM DP-4 WASHINGTON	DC	20545
EBASCO SERVICES INC. ATTN: MR. HAROLD C. BULLEN BLDG. 100A PORT KEARNY SOUTH KEARNY	NJ	07032
GENERAL ELECTRIC CO. ATTN: MR. G. E. CUNNINGHAM VALLECITOS NUCLEAR CENTER PLEASANTON	CA	94566
MK - FERGUSON CO. ATTN: MR. D. E. WILLIAMS ONE ERIEVIEW PLAZA CLEVELAND	OH	44114
MQS INSPECTION INC. ATTN: MR. E. L. BANFIELD 2301 ARTHUR AVE. ELK GROVE VIL	IL	60007
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