

**CERTIFICATE OF COMPLIANCE  
FOR RADIOACTIVE MATERIAL PACKAGES**

1.	a. CERTIFICATE NUMBER	b. REVISION NUMBER	c. DOCKET NUMBER	d. PACKAGE IDENTIFICATION NUMBER	PAGE	PAGES
	9148	8	71-9148	USA/9148/B(U)-85	1 OF	3

2. PREAMBLE

- a. This certificate is issued to certify that the package (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

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|---|---|
| a. ISSUED TO ( <i>Name and Address</i> )<br>AEA Technology QSA, Inc.<br>40 North Avenue<br>Burlington, MA 01803 | b. TITLE AND IDENTIFICATION OF REPORT OR APPLICATION<br>AEA Technology QSA, Inc. application<br>dated December 21, 2001, as supplemented. |
|---|---|

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.: 770
- (2) Description

A steel encased uranium shielded source changer for radiographic sources in special form. The source changer measures 23 inches long, 24 inches wide, and 19.75 inches high. The radioactive source assembly is housed in a titanium "S" tube. The "S" tube is surrounded by depleted uranium metal shield. The depleted uranium shield assembly is encased in two steel containers. The void space between the depleted uranium shield assembly and the inner container is filled with a rigid polyurethane foam. The gross weight of the container is 970 pounds.

(3) Drawing

The packaging is constructed in accordance with AEA Technology QSA, Inc. Drawing No. R77090 - Sheets 1 through 6, Rev. D.

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9148	8	71-9148	USA/9148/B(U)-85	2 OF	3

(b) Contents

(1) Type and form of material

Sources which meet the requirements of special form radioactive material.  
Authorized isotopes include Ir-192, Co-60, Sc-46, and Cs-137

(2) Maximum quantity of material per package

Isotope	Output Curies
Ir-192	1,000
Co-60	800
Sc-46	800
Cs-137	1,000

(3) Maximum decay heat per package:

14 watts.

6. Name plates must be fabricated of materials capable of resisting the fire test of 10 CFR Part 71 and maintaining their legibility.

7. In addition to the requirements of Subpart G of 10 CFR Part 71:

(a) The package shall be prepared for shipment and operated in accordance with the operating procedures in the application; and

(b) The package shall be maintained in accordance with the maintenance program in the application.

8. The packaging authorized by this certificate is hereby approved for use under the general license provision of 10 CFR 71.17.

9. Expiration date: March 31, 2013.

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	9148	8	71-9148	USA/9148/B(U)-85	3 OF	3

REFERENCES

AEA Technology QSA, Inc. application dated December 21, 2001.

Supplements dated: September 13, November 7, and November 14, 2002; September 14, 2004;  
September 20, 2007.

FOR THE U.S. NUCLEAR REGULATORY COMMISSION

/RA/

Robert A. Nelson, Chief  
Licensing Branch  
Division of Spent Fuel Storage and Transportation  
Office of Nuclear Material Safety  
and Safeguards

Date: October 2, 2007

