

**CERTIFICATE OF COMPLIANCE
FOR RADIOACTIVE MATERIAL PACKAGES**

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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

a. ISSUED TO (*Name and Address*)

AEA Technology QSA, Inc.
40 North Avenue
Burlington, MA 01803

b. TITLE AND IDENTIFICATION OF REPORT OR APPLICATION

AEA Technology QSA, Inc. application
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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(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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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



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

Date: October 2, 2007



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555-0001

SAFETY EVALUATION REPORT
Model No. 770 Package
Certificate of Compliance No. 9148
Revision No. 8

SUMMARY

By application dated September 20, 2007, QSA Global, Inc. (QSA), submitted a renewal request for the Model No. 770 package. QSA did not request any changes to the package design or its contents. The certificate has been renewed for a term expiring on March 31, 2013.

EVALUATION

QSA requested renewal of Certificate of Compliance No. 9148 for the Model No. 770 package by application dated September 20, 2007. The applicant did not request any design changes to the package. The staff reviewed the documents referenced in the certificate and determined that the required documentation was available and complete.

CONCLUSION

The certificate expiration date was changed to March 31, 2013. This change does not affect the ability of the package to meet the requirements of 10 CFR Part 71.

Issued with Certificate of Compliance No. 9148, Revision No. 8,
on October 2, 2007.