



U.S. Department  
of Transportation  
**Pipeline and  
Hazardous Materials  
Safety Administration**

**IAEA CERTIFICATE OF COMPETENT AUTHORITY  
SPECIAL FORM RADIOACTIVE MATERIALS  
CERTIFICATE USA/0687/S-96, REVISION 1**

East Building, PHH-23  
1200 New Jersey Avenue Southeast  
Washington, D.C. 20590

This certifies that the source described has been demonstrated to meet the regulatory requirements for special form radioactive material as prescribed in the regulations of the International Atomic Energy Agency<sup>1</sup> and the United States of America<sup>2</sup> for the transport of radioactive material.

1. Source Identification - QSA Global, Inc. Model X.94 (Manufactured on or after May 21, 1981).
2. Source Description - Cylindrical single encapsulation made of stainless steel and tungsten inert gas or laser seal welded. The Model X.94 incorporates a copper gasket, a stainless steel insert, and an optional stainless steel spring. Approximate exterior dimensions are 36.2 mm (1.43 in.) in diameter and 8.3 mm (0.33 in.) in length. Minimum wall thickness is 0.2 mm (0.008 in.). Construction shall be in accordance with attached AEA Technology QSA, Inc. Drawing No. RBA11074, Rev. B.
3. Radioactive Contents - No more than 185.0 GBq (5.0 Ci) of Americium-241. The Am-241 is in the form of an oxide incorporated into a ceramic enamel.
4. Quality Assurance - Records of Quality Assurance activities required by Paragraph 310 of the IAEA regulations<sup>1</sup> shall be maintained and made available to the authorized officials for at least three years after the last shipment authorized by this certificate. Consignors in the United States exporting shipments under this certificate shall satisfy the applicable requirements of Subpart H of 10 CFR 71.
5. Expiration Date - This certificate expires on September 30, 2014.

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<sup>1</sup> "Regulations for the Safe Transport of Radioactive Material, 1996 Edition (Revised), No. TS-R-1 (ST-1, Revised)," published by the International Atomic Energy Agency(IAEA), Vienna, Austria.

<sup>2</sup> Title 49, Code of Federal Regulations, Parts 100-199, United States of America.

**CERTIFICATE USA/0687/S-96, REVISION 1**

This certificate is issued in accordance with paragraph 804 of the IAEA Regulations and Section 173.476 of Title 49 of the Code of Federal Regulations, in response to the August 17, 2009 petition by QSA Global, Inc., Burlington, MA, and in consideration of other information on file in this Office.

Certified By:



**Sep 02 2009**

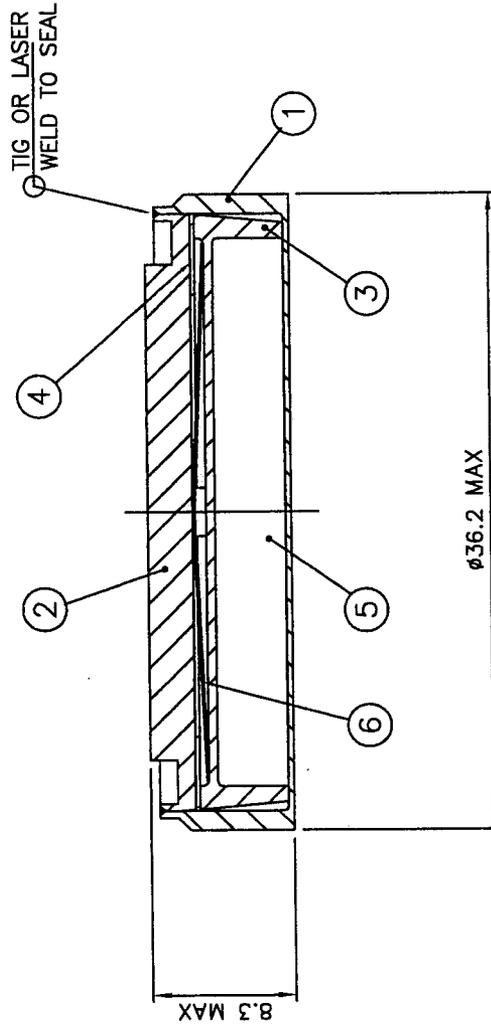
(DATE)

Robert A. Richard

Deputy Associate Administrator for Hazardous Materials Safety

Revision 1 - Issued to extend the expiration date and to update corporate name.

ITEM	DESCRIPTION	QTY
1	BODY STAIN. STL.	1
2	LID STAIN. STL.	1
3	INSERT STAIN. STL.	1
4	GASKET COPPER	1
5	ACTIVE MATERIAL A/R	
6	SPRING (OPTIONAL) STAIN. STL.	1



APPROVALS	
<i>[Signature]</i>	21 Sep 04
<i>[Signature]</i>	21 Sep 04

DIMENSIONS IN MILLIMETERS  
UNLESS OTHERWISE STATED TOLERANCES:

X ±0.5	INTERNAL $\nabla$
X.X ±0.1	EXTERNAL $\nabla$
X.XX ±0.05	ANGULAR $\nabla$



40 NORTH AVE. BURLINGTON, MA 01803

**DESCRIPTIVE DRAWING**

TITLE: X94 CAPSULE ASSEMBLY

SIZE	DWG. NO.	REV
A	RBA11074	B
SCALE: NONE		SHEET 1 OF 1

ERF # 895



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**CERTIFICATE NUMBER:** USA/0687/S-96, Revision 1

**ORIGINAL REGISTRANT(S):**

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