



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

**IAEA CERTIFICATE OF COMPETENT AUTHORITY  
SPECIAL FORM RADIOACTIVE MATERIALS  
CERTIFICATE USA/0717/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 X100 (Manufactured on or after January 4, 1979).
2. Source Description - Cylindrical single encapsulation made of stainless steel and tungsten inert gas or laser seal welded. Approximate outer dimensions are 2.2 mm (0.09 in.) in diameter and 10.5 mm (0.41 in.) in length. Minimum wall thickness is 0.15 mm (0.006 in.). Construction shall be in accordance with attached AEA Technology QSA, Inc. Drawing No. RBA10821, Rev. A.
3. Radioactive Contents - No more than either 370.0 MBq (10.0 mCi) of Americium-241 or 740.0 MBq (20.0 mCi) of Californium-252. The Am-241 is in the form of an oxide incorporated into a ceramic enamel. The Cf-252 is in the form of solid metal or a ceramic.
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 June 30, 2015.

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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/0717/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 June 09, 2010 petition by QSA Global, Inc., Burlington, MA, and in consideration of other information on file in this Office.

Certified By:



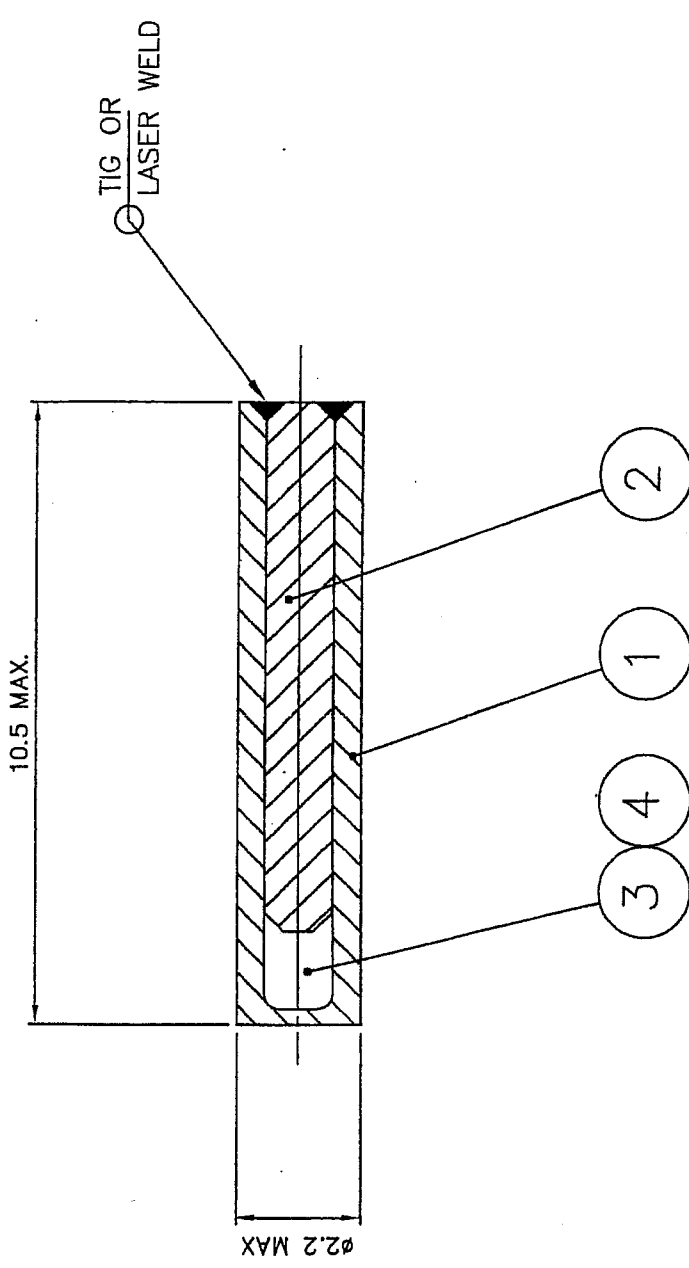
**Jun 17 2010**

(DATE)

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Dr. Magdy El-Sibaie  
Associate Administrator for Hazardous Materials Safety

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

Item No	Description	No off
1	BODY STAIN. STL	1
2	LID STAIN. STL.	1
3	CERAMIC FIBRE	A/R
4	ACTIVE MATERIAL	A/R



<b>AEATECHNOLOGY</b> QSA 40 NORTH AVE, BURLINGTON, MA 01803		DESCRIPTIVE DRAWING	
		TITLE X100 CAPSULE ASSEMBLY	
APPROVALS <i>[Signature]</i> 7/25/05 <i>[Signature]</i> 8/5/05		SIZE <b>A</b>	DWG. NO. RBA10821
DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE STATED TOLERANCES: X ±0.5 X.X ±0.1 X.XX ±0.05 ANGULAR ±5°		INTERNAL <input checked="" type="checkbox"/> <b>N</b> EXTERNAL <input checked="" type="checkbox"/> <b>N</b>	SCALE: NONE
ERF # 1105	SHEET 1 OF 1		REV <b>A</b>



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**CERTIFICATE NUMBER:** USA/0717/S-96, Revision 1

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