



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

**IAEA CERTIFICATE OF COMPETENT AUTHORITY  
SPECIAL FORM RADIOACTIVE MATERIALS  
CERTIFICATE USA/0774/S-96, REVISION 1**

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

This certifies that the sources described have 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. Models X9084/1 and X9084/2.
2. Source Description - Cylindrical triple or quadruple encapsulations with the outer encapsulation made of stainless steel and tungsten inert gas or laser seal welded. Approximate outer dimensions are 16.0 mm (0.63 in.) in diameter and 23.6 mm (0.93 in.) in length. Construction shall be in accordance with attached QSA Global, Inc. Drawing No. RB00250, Rev. C.
3. Radioactive Contents - No more than 462.5 GBq (12.5 Ci) of Cesium-137. The Cs-137 is a solid in a silicate glass matrix, sulfate pellet, compressed anhydrous chloride pellet, or aluminosilicate ceramic pellet.
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, 2019.

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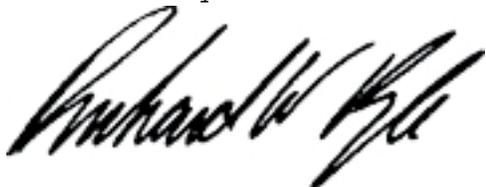
<sup>1</sup> "Regulations for the Safe Transport of Radioactive Material, 1996 Edition (Revised), No. TS-R-1 (ST-1, Revised)," published by the International Atomic Energy Agency(IAEA), Vienna, Austria.

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

**CERTIFICATE USA/0774/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 02, 2014 petition by QSA Global, Inc., Burlington, MA, and in consideration of other information on file in this Office.

Certified By:

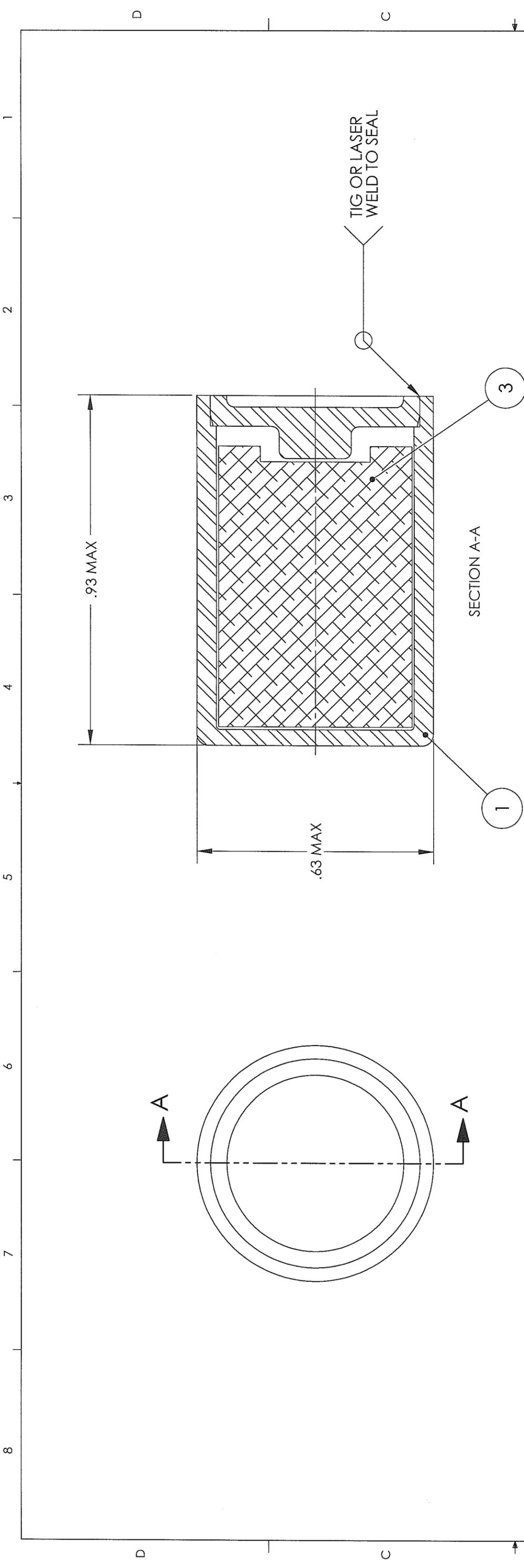


**Jun 27 2014**

(DATE)

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

Revision 1 - Issued to extend the expiration date.



**TABLE 1 - CAPSULE CONFIGURATIONS/MATERIALS**

FINAL CAPSULE CONFIGURATION	CAPSULE(S) MATERIAL
X9084/1 VERSION 1 - QUADRUPLE ENCAPSULATION	304L SS (OUTER) 316L SS 316L SS 316L SS (W/SS SPACER)
X9084/1 VERSION 2 - TRIPLE ENCAPSULATION	304L SS (OUTER) 316L SS 316L SS
X9084/1 VERSION 3 - QUADRUPLE ENCAPSULATION	304L SS (OUTER) 316L SS 316L SS 316L SS
X9084/1 VERSION 4 - TRIPLE ENCAPSULATION	304L SS (OUTER) 316L SS 316L SS
X9084/1 VERSION 5 - TRIPLE ENCAPSULATION	304L SS (OUTER) 316L SS (W/OPTIONAL SS SPACER) MP35N
X9084/2 VERSION 1 - TRIPLE ENCAPSULATION	304L SS (OUTER) 304 SS 304 SS

ITEM	TITLE	APPROVALS	DATE	REV
3	SEALED SOURCE - SEE TABLE 1			1
2	X9084/n LID			1
1	X9084/n BODY			1
ITEM		RB00250 / QTY.		
APPROVALS		DATE		
<i>J. G. ...</i>		16 SEP 09		
<i>L. G. ...</i>		16 SEP 09		
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES				
TOLERANCES: (UNLESS OTHERWISE SPECIFIED)				
FRACTIONS ± 1/8				
X.X ± 0.12				
X.XX ± 0.06				
X.XXX ± 0.020				
ANGULAR ± 5°				
TITLE		QSA GLOBAL		
TITLE		40 NORTH AVE, BURLINGTON, MA 01803		
TITLE		X9084/n CAPSULE ASSEMBLY		
SAFETY CLASS		DWG. NO. RB00250		REV
A		SCALE: 4:1		C
		SHEET 1 OF 1		

ERF #  
**2225**



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**CERTIFICATE NUMBER:** USA/0774/S-96, Revision 1

**ORIGINAL REGISTRANT(S):**

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