



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

**IAEA CERTIFICATE OF COMPETENT AUTHORITY  
SPECIAL FORM RADIOACTIVE MATERIALS  
CERTIFICATE USA/0627/S-96, REVISION 3**

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 No. X.2084 (Manufactured on or after July 28, 1983).
2. Source Description - Cylindrical double encapsulation made of stainless steel and tungsten inert gas or laser seal welded. Approximate outer dimensions are 9.1 mm (0.36 in.) in diameter and 12.8 mm (0.5 in.) in length. Minimum wall thickness of the sheath body is 0.95 mm (0.04 in.) and of the cell body is 0.85 mm (0.03 in.). Construction shall be in accordance with attached AEA Technology QSA, Inc. Drawing No. RBA61685, Rev. A.
3. Radioactive Contents - No more than 5.55 GBq (0.15 Ci) of Americium-241. The Am-241 is in solid oxide form and mixed with beryllium.
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 November 30, 2017.

---

<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/0627/S-96, REVISION 3**


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 November 08, 2012 petition by QSA Global, Inc., Burlington, MA, and in consideration of other information on file in this Office.

Certified By:



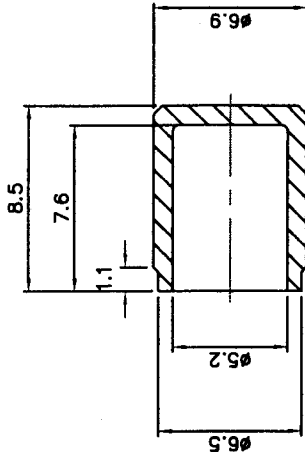
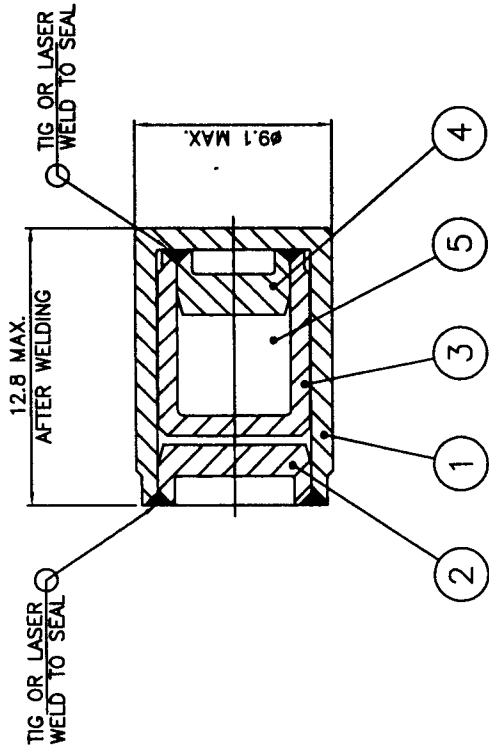
**Nov 09 2012**

(DATE)

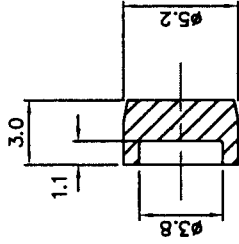
 \_\_\_\_\_  
Dr. Magdy El-Sibaie  
Associate Administrator for Hazardous Materials Safety

Revision 3 - Issued to extend the expiration date.

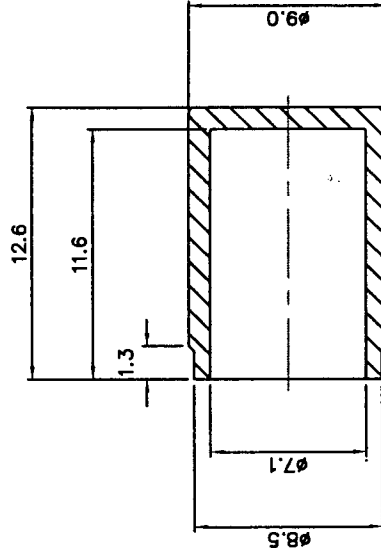
ITEM No.	DESCRIPTION	QTY.
1	SHEATH BODY STAIN.STL	1
2	SHEATH LID STAIN.STL	1
3	CELL BODY STAIN.STL	1
4	CELL LID STAIN.STL	1
5	ACTIVE MATERIAL	AR



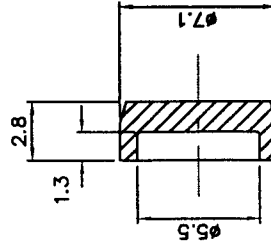
ITEM 3





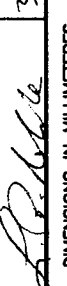
ITEM 4



ITEM 1



ITEM 2

 40 NORTH AVE., BURLINGTON, MA 01803		<b>DESCRIPTIVE DRAWING</b>	
<b>APPROVALS</b>  		OS MAR 03 3 MAR 03	
DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE STATED TOLERANCES:			
X	±0.5	INTERNAL	M
X.X	±0.1	EXTERNAL	M
X.XX	±0.05	ANGULAR	±5°
TITLE X2084 CAPSULE ASSEMBLY		SIZE DWG. NO. RBA61685	REV A
SCALE: NONE		SHEET 1 OF 1	

ERF # 475



U.S. Department  
of Transportation

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

**Pipeline and  
Hazardous Materials  
Safety Administration**

**CERTIFICATE NUMBER:** USA/0627/S-96, Revision 3

**ORIGINAL REGISTRANT(S):**

Ms. Lori Podolak  
Product Licensing Specialist  
QSA Global, Inc.  
40 North Avenue  
Burlington, MA 01803

Ms. Cathleen Roughan  
Director, Regulatory Affairs and QA  
QSA Global, Inc.  
40 North Avenue  
Burlington, MA 01803

Mr. Michael Fuller  
Regulatory Compliance Associate  
QSA Global, Inc.  
40 North Avenue  
Burlington, MA 01803

**REGISTERED USER(S):**

Mr. Steve Browne  
Manager, Radiation Safety  
Troxler Electronic Laboratories  
P.O. Box 12057  
3008 Cornwallis Road  
Research Triangle Park, 27709  
USA

Mr. Damian Rose  
Assistant Radiation Safety Officer  
Troxler Electronic Laboratories  
P.O. Box 12057  
3008 Cornwallis Road  
Research Triangle Park, 27709  
USA

Mr. Darrell Liles  
U.S. Geologic Survey  
Department of the Interior  
P.O. Box 25046 (MS-974)  
Denver, CO 80225-0046