



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

**IAEA CERTIFICATE OF COMPETENT AUTHORITY
SPECIAL FORM RADIOACTIVE MATERIALS
CERTIFICATE USA/0640/S-96, REVISION 4**

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 Agency¹ and the United States of America² for the transport of radioactive material.

1. Source Identification - QSA Global, Inc. Model X.9 (Manufactured on or after October 6, 1981).
2. Source Description - Cylindrical double encapsulation made of stainless steel and tungsten inert gas or laser seal welded. Approximate exterior dimensions are 8.05 mm (0.32 in.) in diameter and 12.25 mm (0.48 in.) in length. Minimum wall thickness of the outer encapsulation is 0.45 mm (0.017 in.). Construction shall be in accordance with attached AEA Technology QSA, Inc. Drawing No. RBA61155, Rev. C.
3. Radioactive Contents - No more than either 555.0 GBq (15.0 Ci) of Cesium-137 or 18.5 TBq (500.0 Ci) of Cobalt-60. The Cs-137 solid is chemically bonded within a borosilicate glass polymer. The Co-60 is a metallic solid.
4. Quality Assurance - Records of Quality Assurance activities required by Paragraph 310 of the IAEA regulations¹ 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 February 28, 2018.

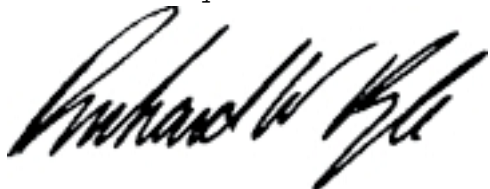
¹ "Regulations for the Safe Transport of Radioactive Material, 1996 Edition (Revised), No. TS-R-1 (ST-1, Revised)," published by the International Atomic Energy Agency (IAEA), Vienna, Austria.

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

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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 February 12, 2013 petition by QSA Global, Inc., Burlington, MA, and in consideration of other information on file in this Office.

Certified By:



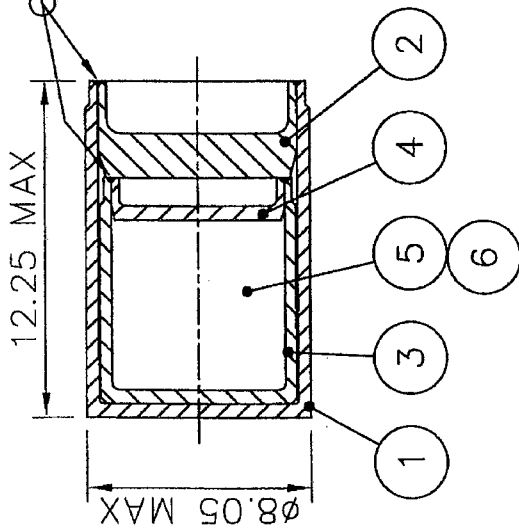
Feb 22 2013

(DATE)

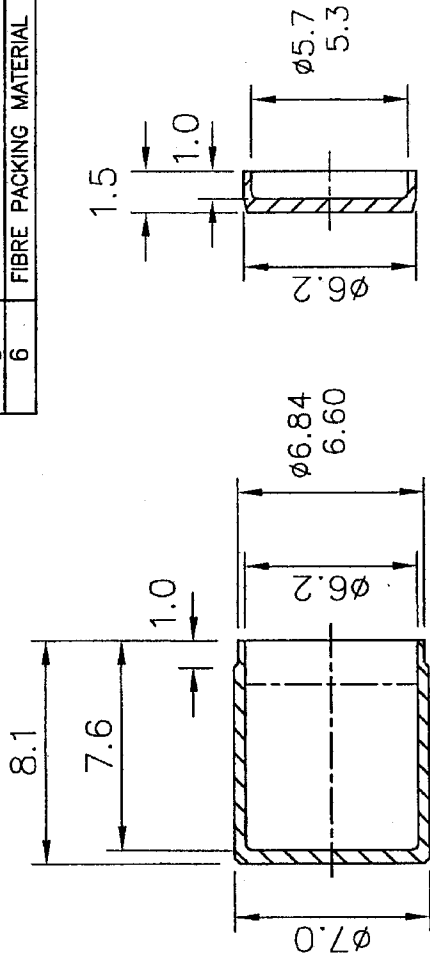
 _____
Dr. Magdy El-Sibaie
Associate Administrator for Hazardous Materials Safety

Revision 4 - Issued to extend the expiration date.

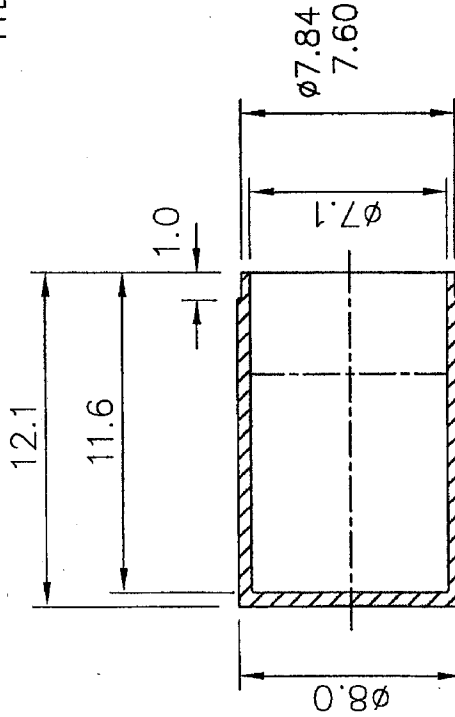
TIG OR LASER
WELD TO SEAL



ITEM No.	DESCRIPTION	QTY.
1	SHEATH BODY	1
2	SHEATH LID	1
3	CELL BODY	1
4	CELL LID	1
5	ACTIVE MATERIAL	AR
6	FIBRE PACKING MATERIAL (OPTIONAL)	AR

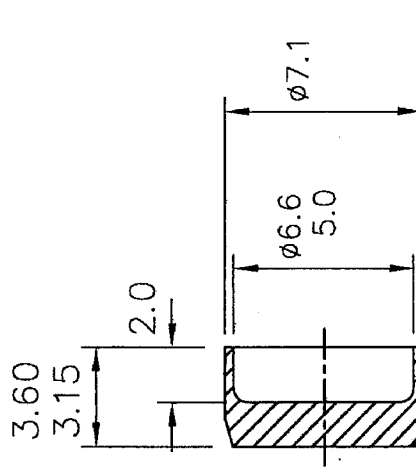


ITEM 3



ITEM 1

ITEM 6



ITEM 2



DESCRIPTIVE
DRAWING

TITLE X9 CAPSULE ASSEMBLY

SIZE A

DWG. NO. RBA61155

SCALE: NONE

SHEET 1 OF 1

REV C

APPROVALS *	
<i>R. Munn</i>	9 JAN 03
<i>L. P. ...</i>	9 JAN 03

DIMENSIONS IN MILLIMETERS
UNLESS OTHERWISE STATED TOLERANCES:

X	±0.5	INTERNAL	N/
X.X	±0.1	INTERNAL	N/
X.XX	±0.05	EXTERNAL	N/
ANGULAR		±5°	

ERF # 753



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Safety Administration**

CERTIFICATE NUMBER: USA/0640/S-96, Revision 4

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