



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

**IAEA CERTIFICATE OF COMPETENT AUTHORITY
SPECIAL FORM RADIOACTIVE MATERIALS
CERTIFICATE USA/0732/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 Agency¹ and the United States of America² for the transport of radioactive material.

1. Source Identification - QSA Global, Inc. Model X91 (Manufactured on or after June 1, 1981).
2. Source Description - Cylindrical single encapsulation made of stainless steel and tungsten inert gas or laser seal welded. Approximate outer dimensions are 10.9 mm (0.43 in.) in diameter and 6.25 mm (0.25 in.) in length. Minimum wall thickness is 0.2 mm (0.008 in.). Construction shall be in accordance with attached QSA Global Drawing No. RBA11056, Rev. A.
3. Radioactive Contents - No more than either 11.0 GBq (297.3 mCi) of Americium-241 or 37.0 GBq (1.0 Ci) of Curium-244. The Am-241 and Cm-244 are in the form of an oxide incorporated into a ceramic matrix.
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 January 31, 2016.

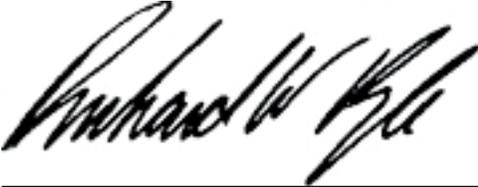
¹ "Regulations for the Safe Transport of Radioactive Material, 1996 Edition (Revised), No. TS-R-1 (ST-1, Revised)," published by the International Atomic Energy Agency(IAEA), Vienna, Austria.

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 January 04, 2011 petition by QSA Global, Inc., Burlington, MA, and in consideration of other information on file in this Office.

Certified By:



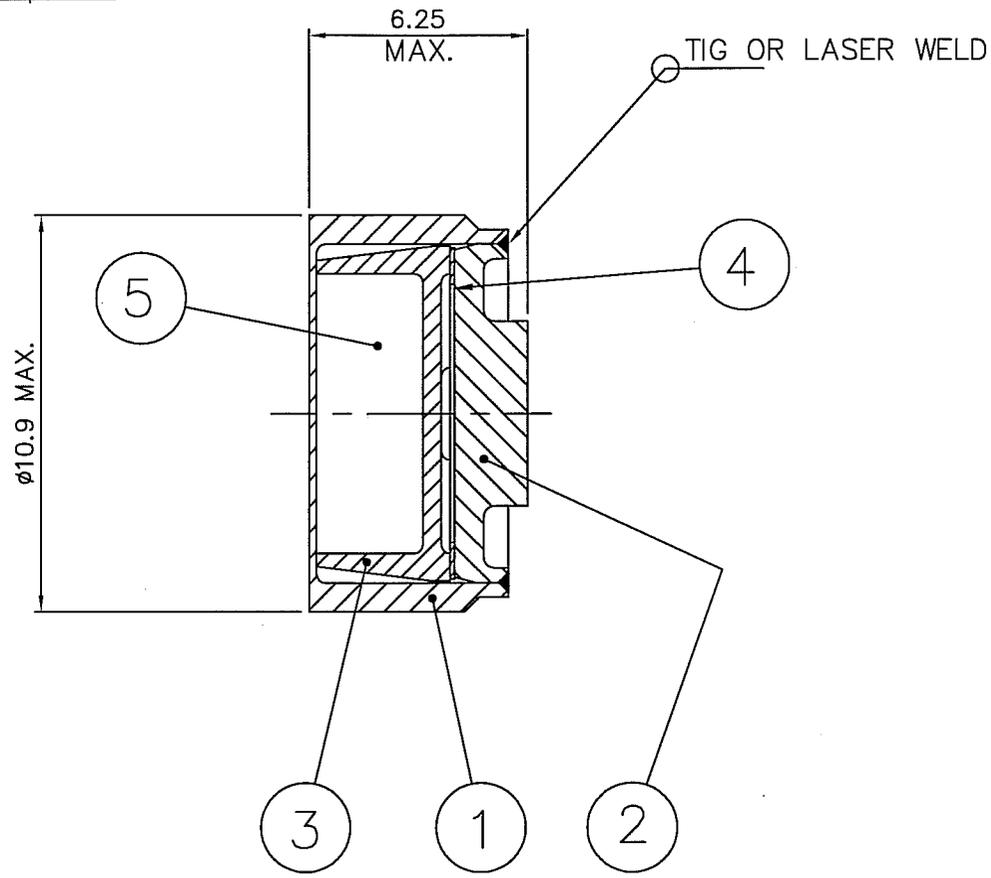
Dr. Magdy El-Sibaie
Associate Administrator for Hazardous Materials Safety

Jan 13 2011
(DATE)

Revision 1 - Issued to extend the expiration date.

Item No.	Description	qty.
1	BODY STAIN STL.	1
2	LID STAIN STL.	1
3	INSERT STAIN STL.	1
4	GASKET COPPER	1
5	ACTIVE MATERIAL	—

REVISIONS				
REV.	ERF #	DESCRIPTION	APPROVALS	DATE
A	1260	INITIAL RELEASE	SEE TITLE	BLOCK



NOTE:
 1) DIMENSIONS ARE IN MILLIMETERS.
 2) TOLERANCES:
 X ± 0.5
 X.X ± 0.12
 X.XX ± 0.06
 X.XXX ± 0.020

ANGULARITY ± 5°

ERF #	1260
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APPROVALS	DATE
<i>R. Minn</i>	7 FEB 06
<i>A. P. Chha</i>	7 FEB 06

UNLESS OTHERWISE SPECIFIED
 DIMENSIONS IN INCHES
 TOLERANCES:
 FRACTIONS ± 1/8
 X.X ± 0.12
 X.XX ± 0.06
 X.XXX ± 0.020

40 NORTH AVE, BURLINGTON, MA 01803

DESCRIPTIVE
DRAWING

TITLE ASSEMBLY OF CAPSULE X91			
SIZE	DWG. NO.	RBA11056	
A	SCALE:	NTS	SHEET 1 OF 1
			REV A



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Washington, D.C. 20590

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CERTIFICATE NUMBER: USA/0732/S-96, Revision 1

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