



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

**IAEA CERTIFICATE OF COMPETENT AUTHORITY  
SPECIAL FORM RADIOACTIVE MATERIALS  
CERTIFICATE USA/0683/S-96, REVISION 2**

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 X1290 (Manufactured on or after November 22, 1995).
2. Source Description - Cylindrical single encapsulation made of stainless steel and tungsten inert gas or laser seal welded. Approximate exterior dimensions are 22.9 mm (0.9 in.) in diameter and 96.5 mm (3.8 in.) in length. Minimum wall thickness is 1.0 mm (0.04 in.). Construction shall be in accordance with attached AEA Technology QSA Inc. Drawing No. RBA62954, Rev. A.
3. Radioactive Contents - No more than 740.0 GBq (20.0 Ci) of Americium-241. The Am-241 is in the form of an oxide mixed with a beryllium powder that is then pressed into a 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 May 31, 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/0683/S-96, REVISION 2**

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 May 13, 2014 petition by QSA Global, Inc., Burlington, MA, and in consideration of other information on file in this Office.

Certified By:



**May 16 2014**

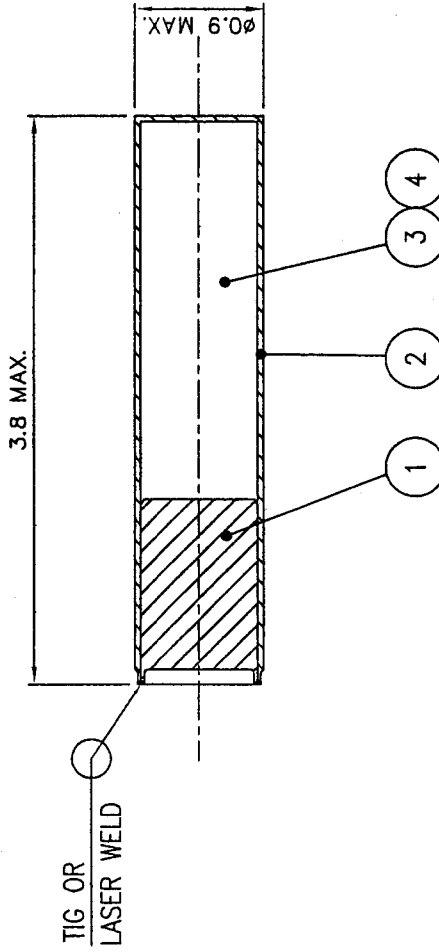
(DATE)

Dr. Magdy El-Sibaie

Associate Administrator for Hazardous Materials Safety

Revision 2 - Issued to extend the expiration date.

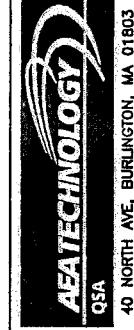
ITEM	DESCRIPTION	QTY
1	LID STAIN. STL	1
2	BODY STAIN. STL	1
3	ACTIVE MATERIAL A/R	A/R
4	CERAMIC FIBRE (OPTIONAL) A/R	A/R



APPROVALS	
<i>R. Munn</i>	7 Sep 04
<i>L. P. ...</i>	7 Sep 04

DIMENSIONS IN INCHES  
UNLESS OTHERWISE STATED TOLERANCES:

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



DESCRIPTIVE  
DRAWING

TITLE X1290 CAPSULE ASSEMBLY

SIZE	DWG. NO.	SCALE:	SHEET	REV
A	RBA62954	NONE	1 OF 1	A

ERF # 891



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**CERTIFICATE NUMBER:** USA/0683/S-96, Revision 2

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