



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

**IAEA CERTIFICATE OF COMPETENT AUTHORITY  
SPECIAL FORM RADIOACTIVE MATERIALS  
CERTIFICATE USA/0639/S-96, REVISION 4**

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 X.1191 and X.1191/1 (Both models manufactured on or after July 23, 1987).
2. Source Description - Cylindrical single encapsulations made of Type 316L stainless steel (Model X.1191) or 17-PH stainless steel (Model X.1191/1) and tungsten inert gas or laser seal welded. Approximate exterior dimensions are 4.3 mm (0.17 in.) in diameter and 22.4 mm (0.88 in.) in length. Minimum wall thickness is 0.8 mm (0.03 in.). Construction shall be in accordance with attached AEA Technology QSA, Inc. Drawing No. RBA61886, Rev. C.
3. Radioactive Contents - No more than 12.0 GBq (324.0 mCi) of Californium-252. The Cf-252 is in the form of metal in californium/palladium alloy and californium/platinum/iridium alloy wire and pellets or as an oxide in a ceramic.
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 January 31, 2018.

---

<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/0639/S-96, REVISION 4**

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 07, 2013 petition by QSA Global, Inc., Burlington, MA, and in consideration of other information on file in this Office.

Certified By:

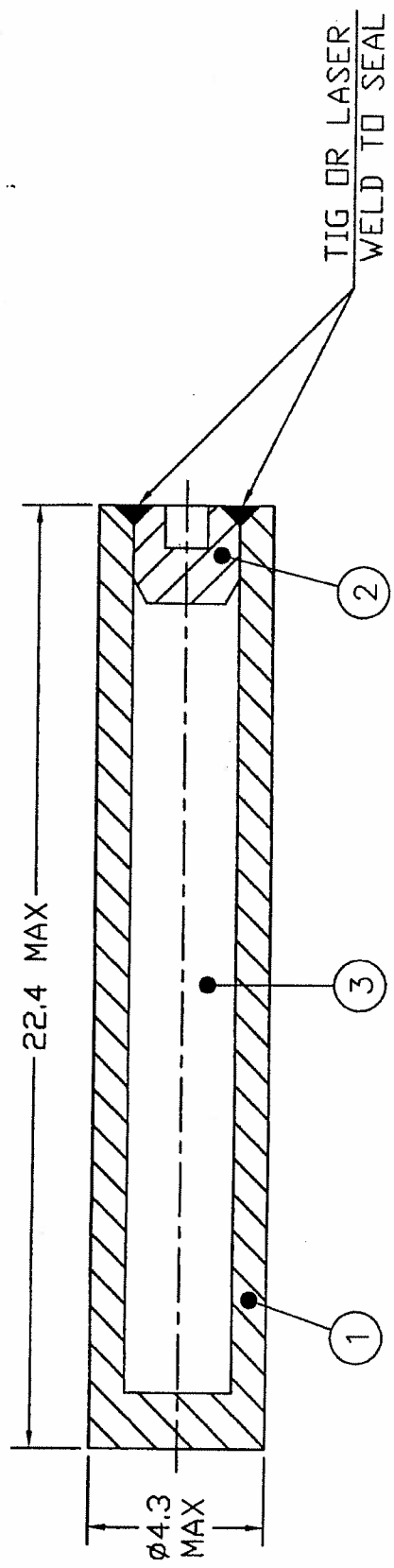



Dr. Magdy El-Sibaie  
Associate Administrator for Hazardous Materials Safety

**Jan 24 2013**  
(DATE)

Revision 4 - Issued to extend the expiration date.

Item #	Description	Qty.
1	CELL BODY STAIN.STL.	1
2	CELL LID STAIN.STL.	1
3	ACTIVE MATERIAL	AR



 40 NORTH AVE. BURLINGTON, MA 01803		DESCRIPTIVE DRAWING	
APPROVALS <i>R. J. Munn</i> 21 Feb 05 <i>J. P. P. P.</i> 21 Feb 05		TITLE X1191 & X1191/1 CAPSULE ASSY	
DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE STATED TOLERANCES: X ±0.5 XX ±0.1 XXX ±0.05 ANGULAR ±5°		SIZE DWG. NO. RBA61886 A SCALE: NONE SHEET 1 OF 1	
INTERNAL <input checked="" type="checkbox"/> <input type="checkbox"/> EXTERNAL <input checked="" type="checkbox"/> <input type="checkbox"/>		REV C	
ERF # 1001			



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/0639/S-96, Revision 4

**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