



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

**IAEA CERTIFICATE OF COMPETENT AUTHORITY
SPECIAL FORM RADIOACTIVE MATERIALS
CERTIFICATE USA/0790/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 X9099.
2. Source Description - Cylindrical single encapsulation made of titanium and tungsten inert gas or laser seal welded. Approximate outer dimensions are 4.83 mm (0.19 in.) in diameter and 10.92 mm (0.43 in.) in length. Construction shall be in accordance with attached QSA Global, Inc. Drawing No. RB00387-1, Rev. A.
3. Radioactive Contents - No more than 4.0 TBq (108.1 Ci) of Ytterbium-169. The Yb-169 is in the form of a ceramic pellet or compressed powder.
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 June 30, 2022.

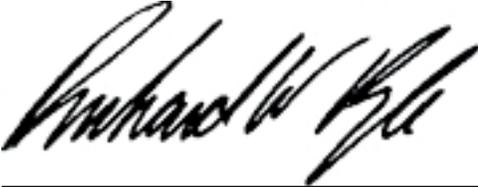
¹ "Regulations for the Safe Transport of Radioactive Material, 1996 Edition (Revised), No. TS-R-1 (ST-1, Revised)," published by the International Atomic Energy Agency (IAEA), Vienna, Austria.

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 June 15, 2017 petition by QSA Global, Inc., Burlington, MA, and in consideration of other information on file in this Office.

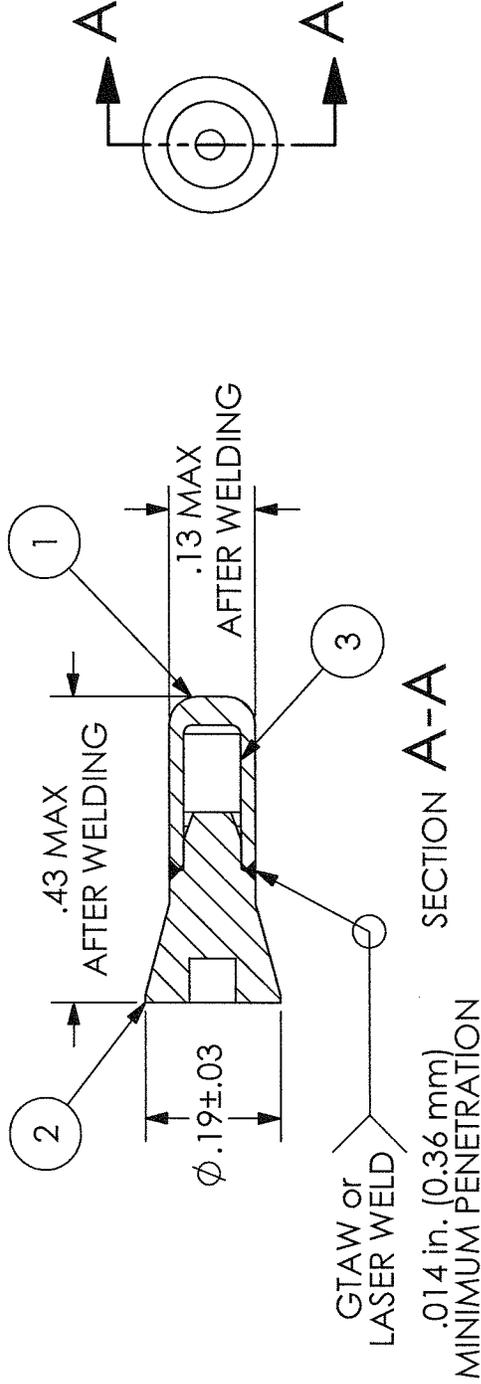
Certified By:



Jun 23 2017
(DATE)

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William Schoonover
Acting Associate Administrator for Hazardous Materials Safety

Revision 1 - Issued to extend the expiration date.



NOTES:

1. INNER CAVITY MAY CONTAIN STAINLESS STEEL OR TITANIUM SPACERS, SPRINGS, OR GUARDS WHICH SECURE AND / OR LOCATE THE ACTIVE MATERIAL WITHIN THE CAPSULE.

UNLESS OTHERWISE SPECIFIED: ALL DIMENSIONS ARE INCHES, TOLERANCE $\pm 1/16$		QSA GLOBAL 40 NORTH AVE, BURLINGTON, MA 01803		REV A	
TITLE X9099 CAPSULE ASSEMBLY		DWG. NO. RB00387-1		SHEET 1 OF 1	
SIZE A		SCALE: NONE			
3	1	ACTIVE MATERIAL	--		
2	1	PLUG, TAPERED	TITANIUM		
1	1	CAPSULE, BOTTOM	TITANIUM		
ITEM	QTY	TITLE			
ERF #		APPROVALS	DATE		
2782		<i>[Signature]</i>	19 JUL 12		
		<i>[Signature]</i>	30 Aug 12		



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CERTIFICATE NUMBER: USA/0790/S-96, Revision 1

ORIGINAL REGISTRANT(S):

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