



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

East Building, PHH-23  
1200 New Jersey Ave, SE  
Washington, D.C. 20590

February 10, 2020

Dr. James M. Shuler  
Manager, Packaging Certification Program  
Department of Energy  
U.S. Department of Energy  
1000 Independence Ave, SW  
EM-60  
Washington, DC, 20585  
USA

Dear Dr. James M. Shuler,

As your February 5, 2020 letter requested, Department of Energy has been registered as a user of IAEA Certificate of Competent Authority USA/0807/S-96 for the QSA Global, Inc. Model X9105/1. The source described in the attached certificate has demonstrated its ability to meet the regulatory requirements for special form radioactive material as prescribed in the regulations of the United States of America and the International Atomic Energy Agency.

A copy of the certificate is enclosed. All future revisions of the certificate will be forwarded to Department of Energy at James.Shuler@em.doe.gov.

Sincerely,

A handwritten signature in blue ink, appearing to read "Richard W. Boyle".

Richard W. Boyle, Chief  
Radioactive Materials Branch  
Office of Engineering and Research



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IAEA CERTIFICATE OF COMPETENT AUTHORITY  
SPECIAL FORM RADIOACTIVE MATERIALS

CERTIFICATE USA/0807/S-96, REVISION 2

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 X9105/1.
2. Source Description - Cylindrical single encapsulation made of 300 series stainless steel and seal welded. The radioactive material may be inside an inner assembly made of stainless steel, platinum, or platinum alloy. Approximate outer dimensions are 60.2 mm (2.37 in.) in diameter and 139.95 mm (5.51 in.) in length. Construction shall be in accordance with attached QSA Global, Inc. Drawing No. RB00442-1, Rev. B.
3. Radioactive Contents - No more than 111 GBq (3 Ci) of Radium-226. The Ra-226 is in the form of a chloride, bromide, sulphate, titanate or carbonate.
4. Management System Activities - Records of Management System activities required by Paragraph 306 of the IAEA regulations 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 requirements of Subpart H of 10 CFR 71.
5. Expiration Date - This certificate expires on November 30, 2024. Previous editions which have not reached their expiration date may continue to be used.

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<sup>1</sup> "Regulations for the Safe Transport of Radioactive Material, 2012 Edition, No. SSR-6" 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/0807/S-96, REVISION 2**


This certificate is issued in accordance with paragraph(s) 804 of the IAEA Regulations and Section 173.476 of Title 49 of the Code of Federal Regulations, in response to the November 1, 2019 petition by QSA Global, Inc., Burlington, MA, and in consideration of other information on file in this Office.

Certified By:



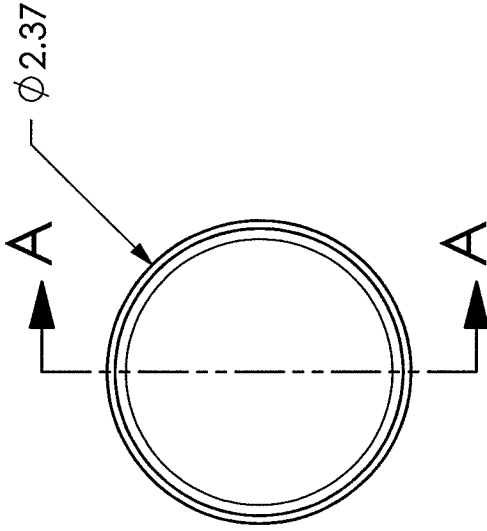
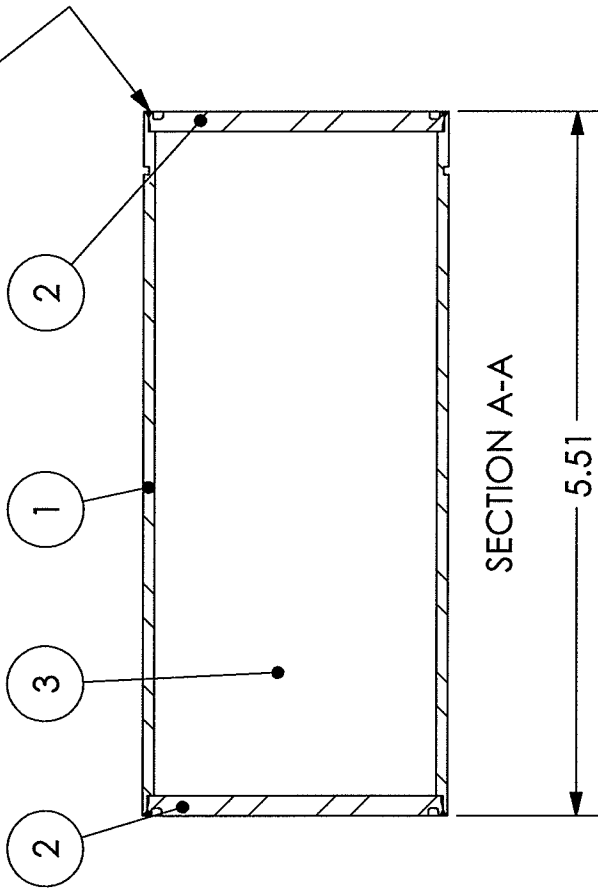
December 10, 2019

(DATE)


 William Schoonover  
Associate Administrator for Hazardous  
Materials Safety

Revision 2 - Issued to extend the expiration date.

**B** 2X GTAW OR LBW  
 .0425" [1.08mm]  
 MINIMUM WELD  
 PENETRATION REQUIRED



**NOTES:**  
 1. STAINLESS STEEL, PLATINUM OR PLATINUM ALLOY CAPSULE(S) MAY BE PLACED WITHIN OUTER CAPSULE.

UNLESS OTHERWISE SPECIFIED: ALL DIMENSIONS ARE INCHES, TOLERANCE ±1/16		 40 NORTH AVE, BURLINGTON, MA 01803		<b>DESCRIPTIVE DRAWING</b>	
3	-	INNER CAPSULE(S)	-	ERF #	3248
2	2	LID, X9105/1 CAPSULE	STAINLESS STEEL	APPROVALS	<i>R. D. ...</i>
1	1	BODY, X9105/1 CAPSULE	STAINLESS STEEL	DATE	01 APR 2015
<b>ITEM</b>	<b>QTY</b>	<b>TITLE</b>	<b>MATERIAL</b>		1 Apr 15
TITLE X9105/1			SCALE: NONE		
DWG. NO. <b>RB004442-1</b>			SHEET 1 OF 1		
REV <b>B</b>					



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**CERTIFICATE NUMBER:** USA/0807/S-96

**ORIGINAL REGISTRANT(S) :**

QSA Global, Inc.  
30 North Avenue  
Burlington, MA, 01803  
USA

**REGISTERED USERS:**

Department of Energy  
U.S. Department of Energy  
1000 Independence Ave, SW  
EM-60  
Washington, DC, 20585  
USA