



U.S. Department  
of Transportation

Pipeline and  
Hazardous Materials  
Safety Administration

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

IAEA CERTIFICATE OF COMPETENT AUTHORITY  
SPECIAL FORM RADIOACTIVE MATERIALS

CERTIFICATE USA/0705/S-96, REVISION 3

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 XN28 (Manufactured on or after September 21, 1996).
2. Source Description - Rectangular double encapsulation with a cylindrical extension made of stainless steel and tungsten inert gas or laser seal welded. Approximate outer dimensions are 22.3 mm (0.88 in.) in height, 25.4 mm (1.0 in.) in width, and 10.2 mm (0.4 in.) in overall depth. Minimum wall thickness of the outer encapsulation is 0.04 mm (0.002 in.). Construction shall be in accordance with attached AEA Technology QSA, Inc. Drawing Number RBA10236, Rev. B.
3. Radioactive Contents - No more than 18.5 GBq (0.5 Ci) of Strontium-90. The Sr-90 is in the form of a ceramic enamel.
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.

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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/0705/S-96, REVISION 3**

5. Expiration Date - This certificate expires on June 30, 2024. Previous editions which have not reached their expiration date may continue to be used.

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 June 3, 2019 petition by QSA Global, Inc., Burlington, MA, and in consideration of other information on file in this Office.

Certified By:



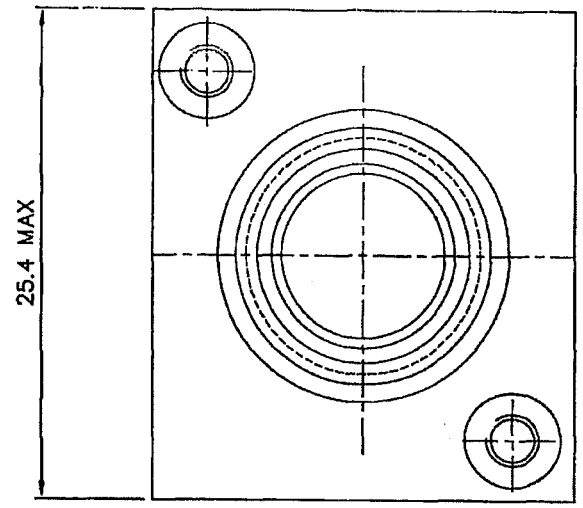
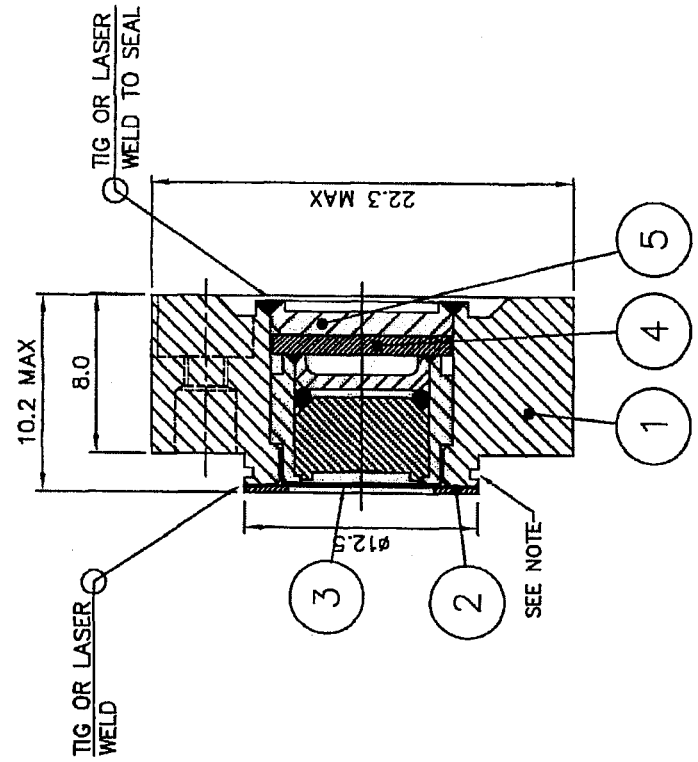
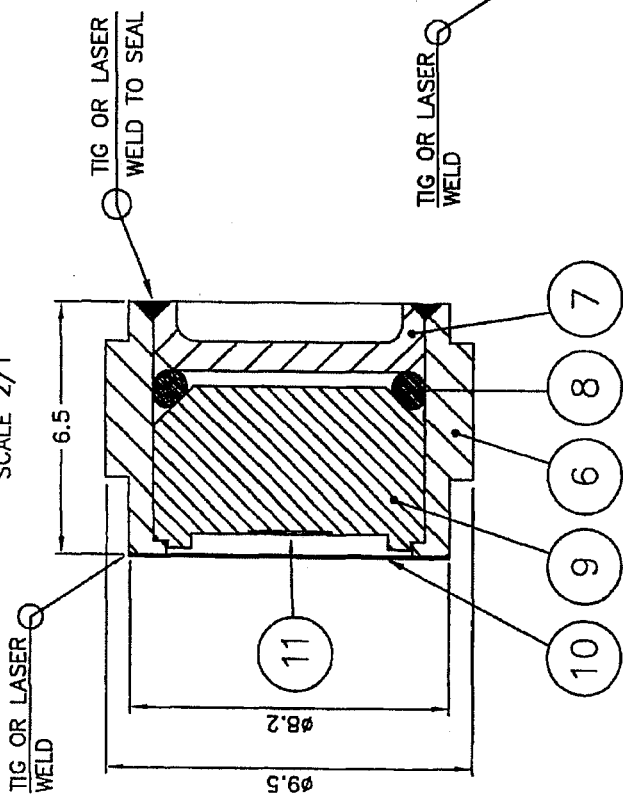
June 13, 2019  
(DATE)



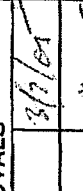
 William Schoonover  
Associate Administrator for Hazardous  
Materials Safety

Revision 3 - Issued to extend the expiration date.

ITEM	DESCRIPTION	QTY
1	SHEATH BODY	1
2	WINDOW FRAME	1
3	SHEATH WINDOW	1
4	SHEATH GASKET	1
5	SHEATH LID	1
6	CELL BODY	1
7	CELL LID	1
8	CELL GASKET	1
9	CELL INSERT	A/R
10	CELL WINDOW	1
11	ACTIVE MATERIAL	A/R

ENLARGED CELL DETAIL  
SCALE 2/1



 QSA 40 NORTH AVE, BURLINGTON, MA 01803		<b>DESCRIPTIVE DRAWING</b>	
		TITLE XN28 CAPSULE ASSEMBLY	
DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE STATED TOLERANCES:		SCALE: NONE	
X ±0.5 XX ±0.1 XXX ±0.05 ANGULAR ±5°		SHEET 1 OF 1	
APPROVALS  		REV B	
NOTE: RECESS NOT PRESENT ON ALL CAPSULES		DWG. NO. RBA10236	
ERF # 1008		A	



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**CERTIFICATE NUMBER:** USA/0705/S-96

**ORIGINAL REGISTRANT(S) :**

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