



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/0657/S, REVISION 7

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 X.103 (Manufactured on or after December 9, 1991).
2. Source Description - Cylindrical single encapsulation made of Type 316 stainless steel and tungsten inert gas seal welded. Approximate exterior dimensions are 2.9 mm (0.11 in.) in diameter and 30.4 mm (1.2 in.) in length. Minimum wall thickness is 0.225 mm (0.009 in.). Construction shall be in accordance with attached AEA Technology QSA, Inc. Drawing No. RBA62475, Rev. A.
3. Radioactive Contents - No more than 5.18 GBq (140.0 mCi) of Americium-241. The Am-241 is in oxide form and combined with molten glass and cooled to form a glass bead.
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 December 31, 2030. Previous editions which have not reached their expiration date may continue to be used.

¹ "Regulations for the Safe Transport of Radioactive Material, 2018 Edition, No. SSR-6 (Rev. 1)" published by the International Atomic Energy Agency (IAEA), Vienna, Austria.

² Title 49, Code of Federal Regulations, Parts 100-199, United States of America.

CERTIFICATE USA/0657/S, REVISION 7

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 December 3, 2025 petition by QSA Global, Inc., Burlington, MA, and in consideration of other information on file in this Office.

Certified By:



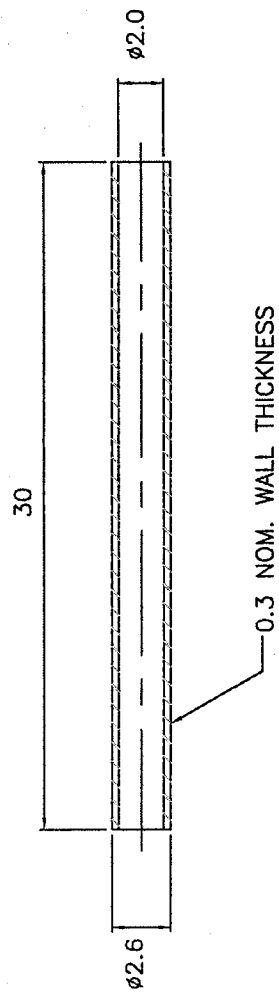
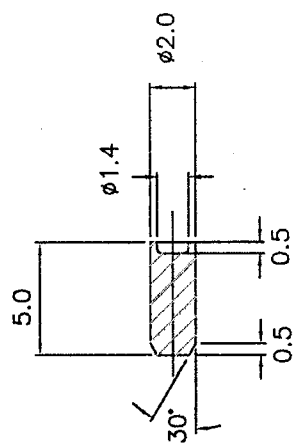
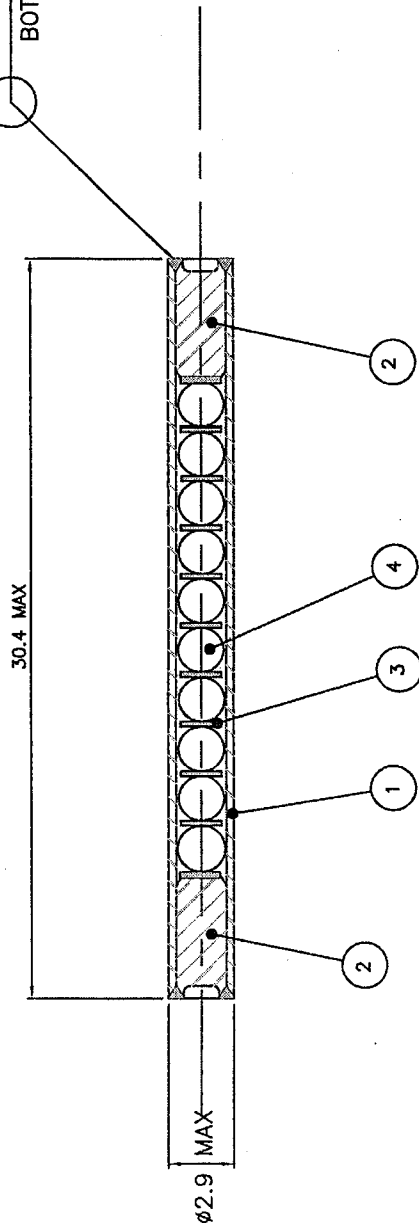
William Quade
Acting Associate Administrator for
Hazardous Materials Safety

December 30, 2025
(DATE)

Revision 7 - Issued to endorse to 2018 edition of the IAEA Regulations for the Safe Transport of Radioactive Material, SSR-6 (Rev. 1) and to extend the expiration date.

ITEM No.	DESCRIPTION	No. OFF
1	BODY	1
2	PLUG	2
3	CERAMIC FIBRE PACKING	A/R
4	Am241 GLASS BEADS ϕ 1.9 MM	A/R

TIG WELD
BOTH ENDS



PLUG
MATERIAL - 316/316L STAINLESS STEEL

BODY
MATERIAL - 316/316L STAINLESS STEEL

		DESCRIPTIVE DRAWING	
40 NORTH AVE, BURLINGTON, MA 01803		TITLE X103 CAPSULE ASSEMBLY	
APPROVALS R. Munn 18 Nov 03 L. P. B. 21 Nov 03		SIZE DWG. NO. RBA62475 A	
DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE STATED TOLERANCES: X ± 0.5 X.X ± 0.1 X.XX ± 0.05 ANGULAR $\pm 5^\circ$		SCALE: NONE	
INTERNAL N/A EXTERNAL N/A		REV A	
ERF # 710		SHEET 1 OF 1	



U.S. Department of
Transportation

**Pipeline and
Hazardous Materials
Safety Administration**

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

CERTIFICATE NUMBER: USA/0657/S-96

ORIGINAL REGISTRANT(S) :

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