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

U.S. Department of Transportation

Pipeline and Hazardous Materials Safety Administration

IAEA CERTIFICATE OF COMPETENT AUTHORITY SPECIAL FORM RADIOACTIVE MATERIALS

CERTIFICATE USA/0715/S, REVISION 4

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[1] and the United States of America[2] for the transport of radioactive material.

1. Source Identification - QSA Global, Inc. Model X101 (Manufactured on or after January 4, 1979).

2. Source Description - Cylindrical single encapsulation made of stainless steel and tungsten inert gas or laser seal welded. Approximate outer dimensions are 3.2 mm (0.13 in.) in diameter and 10.4 mm (0.41 in.) in length. Minimum wall thickness is 0.15 mm (0.006 in.). Construction shall be in accordance with attached AEA Technology QSA, Inc. Drawing No. RBA10818, Rev. A.

3. Radioactive Contents - No more than 740.0 MBq (20.0 mCi) of either Americium-241 or Californium-252. The Am-241 is in the form of an oxide incorporated into a ceramic enamel. The Cf-252 is in the form of solid metal or a ceramic.

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.

---

[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/0715/S, REVISION 4

5. Expiration Date - This certificate expires on October 31, 2029. 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 October 4, 2024 petition by QSA Global, Inc., Burlington, MA, and in consideration of other information on file in this Office.

Certified By:

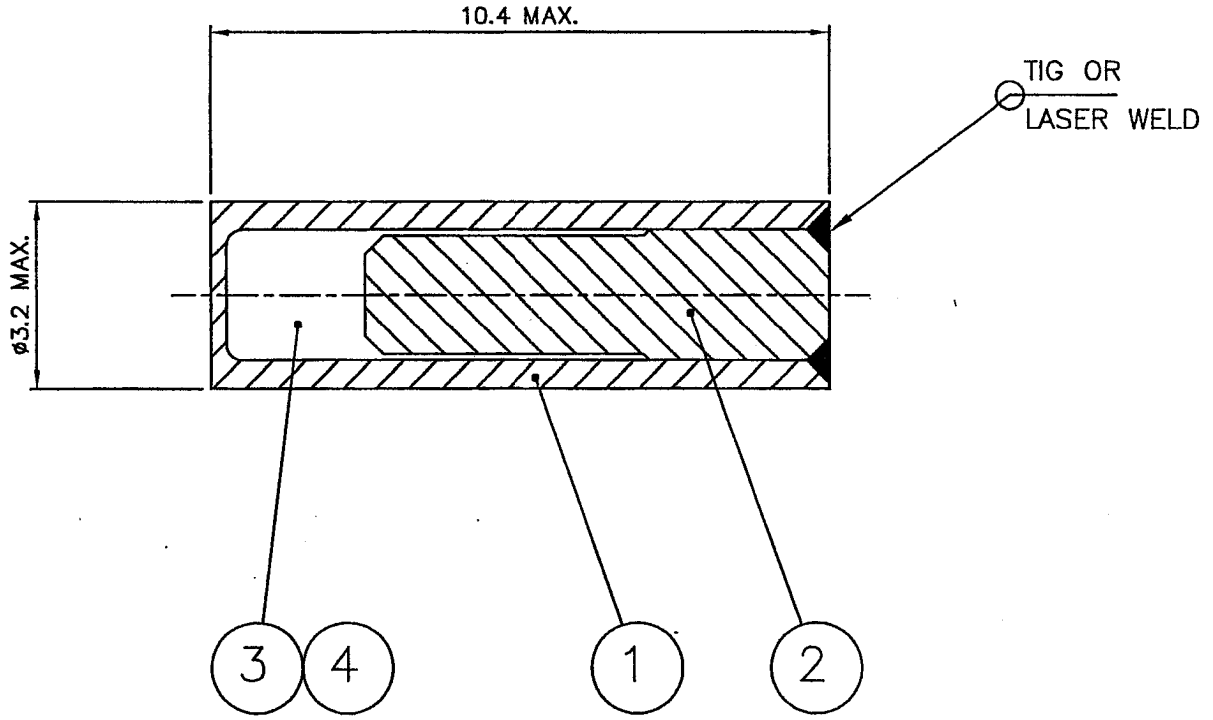
November 07, 2024

William Schoonover
Associate Administrator for Hazardous Materials Safety

(DATE)

Revision 4 - Issued to extend the expiration date.

Item No	Description	No off
1	BODY STAIN. STL.	1
2	LID STAIN. STL.	1
3	CERAMIC FIBRE	A/R
4	ACTIVE MATERIAL	A/R



APPROVALS	
	7/25/05
	25 JUL 05

DIMENSIONS IN MILLIMETERES
UNLESS OTHERWISE STATED TOLERANCES:

X ±0.5
X.X ±0.1
X.XX ±0.05
ANGULAR ±5'

INTERNAL N7
EXTERNAL N6

AEATECHNOLOGY QSA
40 NORTH AVE, BURLINGTON, MA 01803

DESCRIPTIVE DRAWING

TITLE X101 CAPSULE ASSEMBLY

SIZE	DWG. NO.	REV
A	RBA10818	A
	SCALE: NONE / SHEET 1 OF 1	

ERF #	1106

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/0715/S

ORIGINAL REGISTRANT(S):

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

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