



U.S. Department
of Transportation

Pipeline and
Hazardous Materials
Safety Administration

IAEA CERTIFICATE OF COMPETENT AUTHORITY
SPECIAL FORM RADIOACTIVE MATERIALS

CERTIFICATE USA/0730/S, REVISION 5

East Building, PHH-23
1200 New Jersey Ave, SE
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 XN46 Capsule in a Model X0845 Holder (Manufactured on or after March 19, 1993).
2. Source Description - The Model XN46 is cylindrical single encapsulation made of stainless steel and seal welded. Approximate exterior dimensions are 3.6 mm (0.14 in.) in diameter and 83.8 mm (3.3 in.) in length. Minimum wall thickness is 0.15 mm (0.006 in.). The Model XN46 is retained into the X0845 slotted cylindrical stainless steel source holder by means of a retaining block on each end of the Model XN46 and fastened by welded in-place screws. Approximate exterior dimensions of the Model X0845 source holder are 13.0 mm (0.51 in.) in diameter and 89.4 mm (3.52 in.) in length. Construction shall be in accordance with attached AEA Technology QSA, Inc. Drawing Nos. RBA10113, Rev. A and RBA62541, Rev. A.
3. Radioactive Contents - No more than 37.0 GBq (1.0 Ci) of Americium-241. The Am-241 is in the form of an oxide incorporated into a ceramic matrix.

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.

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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 May 16, 2030. 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 April 30, 2025 petition by QSA Global, Inc., Burlington, MA, and in consideration of other information on file in this Office.

Certified By:

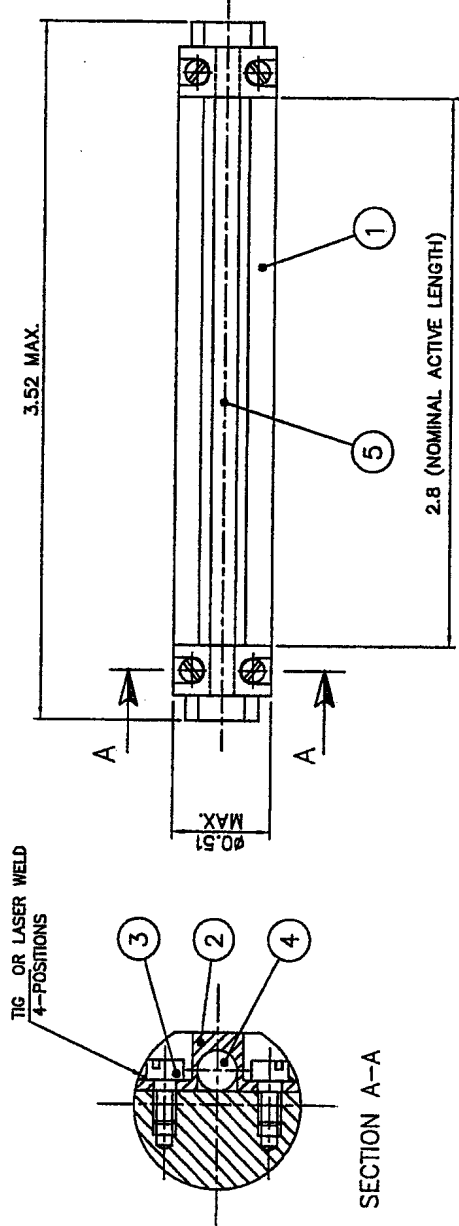


William Schoonover
Associate Administrator for Hazardous
Materials Safety

May 14, 2025
(DATE)

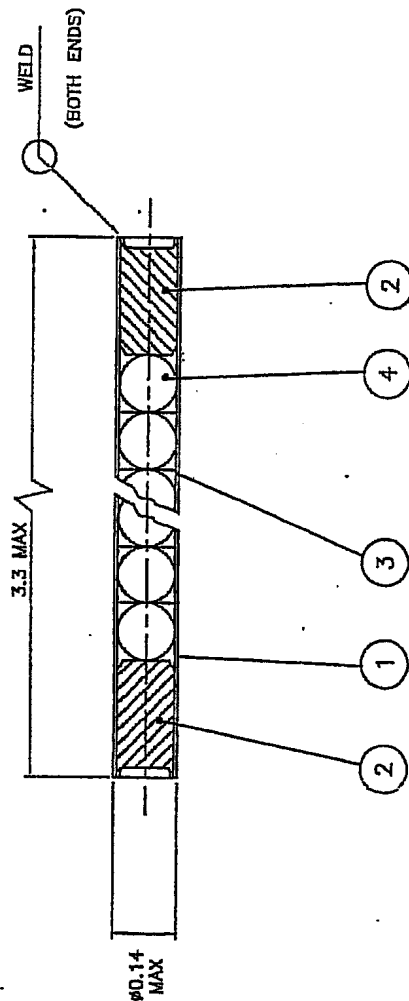
Revision 5 - Issued to endorse to 2018 edition of the IAEA Regulations for the Safe Transport of Radioactive Material, SSR-6 (Rev. 1) and to extend the expiration date.

ITEM	DESCRIPTION	QTY
1	BODY	1
2	RETAINER	2
3	SCREW CH. HD. 10BAx1/8 LG	4
4	ASSEMBLY OF CAPSULE XN46	1
5	ACTIVE MATERIAL	—



		DESCRIPTIVE DRAWING	
40 NORTH AVE, BURLINGTON, MA 01803		TITLE X0845 ASSEMBLY	
APPROVALS <i>[Signature]</i>	DATE 12 Apr 06	UNLESS OTHERWISE SPECIFIED DIMENSIONS IN INCHES TOLERANCES: FRACTIONS $\pm 1/8$ XX ± 0.12 XXX ± 0.06 XXXX ± 0.020	DWG. NO. RBA10113
ERF # 1203		SCALE: 1:1	REV A
		SHEET 1 OF 1	

ITEM	DESCRIPTION	QTY
1	BODY	1
2	PLUG	2
3	CERAMIC FIBRE PACKING	A/R
4	AMP241 GLASS BEADS # 0.108	A/R



APPROVALS	
<i>[Signature]</i>	22 NW 04
<i>[Signature]</i>	22 NW 01



DESCRIPTIVE
DRAWING

TITLE

XN46 CAPSULE ASSEMBLY

SIZE

DWG. NO. RBA62541

REV

A

SCALE: NONE

SHEET 1 OF 1

DIMENSIONS IN INCHES

ERF # 937



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CERTIFICATE NUMBER: USA/0730/S-96

ORIGINAL REGISTRANT(S) :

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