



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/0703/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 Agency¹ and the United States of America² for the transport of radioactive material.

1. Source Identification - QSA Global, Inc. Model X7 (Manufactured on or after August 20, 1982).
2. Source Description - Cylindrical single encapsulation made of stainless steel and tungsten inert gas or laser seal welded. Approximate outer dimensions are 4.6 mm (0.18 in.) in diameter and 6.3 mm (0.25 in.) in length. Minimum wall thickness is 0.6 mm (0.02 in.). Construction shall be in accordance with attached AEA Technology QSA, Inc. Drawing Number RBA62010, Rev. A.
3. Radioactive Contents - No more than either 740 MBq (20.0 mCi) of Ba-133, 37.0 GBq (1.0 Ci) of Cs-137, 11.1 GBq (300.0 mCi) of Am-241, or 740.0 Mbq (20.0 mCi) of Ra-226. The Ba-133 is in the form of a sulfate in ion exchange beads or as a ceramic enamel. The Cs-137 is in the form of a calcium silicate in a glass matrix, sulfate in ion exchange beads, or sulfate as a ceramic enamel. The Am-241 is in the form of an oxide incorporated into a ceramic enamel. The Ra-226 is in the form of a sulfate as compressed pellets.

¹ "Regulations for the Safe Transport of Radioactive Material, 2012 Edition, No. SSR-6" 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 31, 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 May 1, 2019 petition by QSA Global, Inc., Burlington, MA, and in consideration of other information on file in this Office.

Certified By:

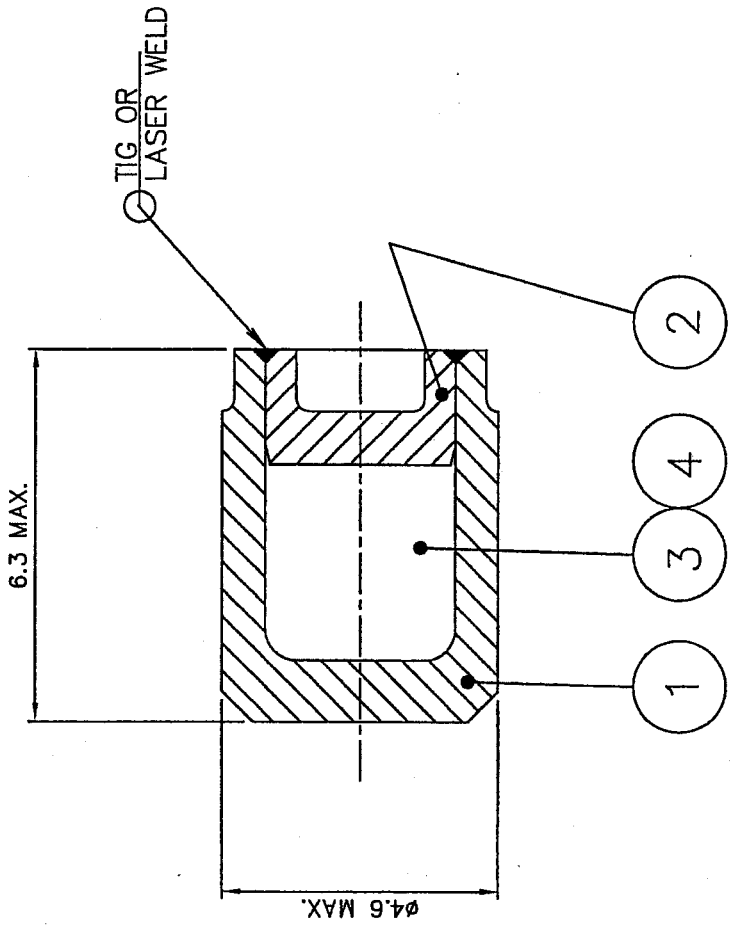


William Schoonover
Associate Administrator for Hazardous
Materials Safety

May 17, 2019
(DATE)

Revision 3 - Issued to extend the expiration date.

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



AEATECHNOLOGY USA		DESCRIPTIVE DRAWING	
40 NORTH AVE, BURLINGTON, MA 01803		TITLE X7 CAPSULE ASSEMBLY	
SIZE A	DWG. NO. RBA62010	SCALE: NONE	REV A
		SHEET 1 OF 1	

APPROVALS		TITLE X7 CAPSULE ASSEMBLY	
<i>G. Law</i>	<i>2/8/05</i>	40 NORTH AVE, BURLINGTON, MA 01803	
<i>S. P. P. P.</i>	<i>8 Feb 05</i>	TITLE X7 CAPSULE ASSEMBLY	
DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE STATED TOLERANCES:		SIZE A	
X ±0.5	INTERNAL $\frac{N}{\Delta}$	DWG. NO. RBA62010	
X.X ±0.1	EXTERNAL $\frac{N}{\Delta}$	SCALE: NONE	
X.XX ±0.05	ANGULAR ±5°	SHEET 1 OF 1	

ERF # 981



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ORIGINAL REGISTRANT(S) :

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Burlington, MA, 01803
USA

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Houston, TX, 77032
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