



U.S. Department
of Transportation
**Pipeline and
Hazardous Materials
Safety Administration**

**IAEA CERTIFICATE OF COMPETENT AUTHORITY
SPECIAL FORM RADIOACTIVE MATERIALS
CERTIFICATE USA/0672/S-96, REVISION 3**

East Building, PHH-23
1200 New Jersey Avenue Southeast
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 X21 (Manufactured on or after July 17, 1980).
2. Source Description - Cylindrical double encapsulation made of stainless steel and tungsten inert gas or laser seal welded. Approximate exterior dimensions are 8.0 mm (0.31 in.) in diameter and 15.3 mm (0.60 in.) in length. Minimum wall thickness of the outer encapsulation is 0.72 mm (0.03 in.). Construction shall be in accordance with attached AEA Technology QSA, Inc. Drawing No. RBA11027, Rev. A.
3. Radioactive Contents - No more than 7.4 GBq (200.0 mCi) of either Americium-241 or Curium-244. The Am-241 and Cm-244 are in the form of an oxide mixed with a beryllium powder and then pressed into a solid pellet.
4. Quality Assurance - Records of Quality Assurance activities required by Paragraph 310 of the IAEA regulations¹ 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 applicable requirements of Subpart H of 10 CFR 71.
5. Expiration Date - This certificate expires on November 30, 2018.

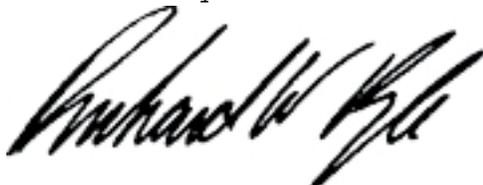
¹ "Regulations for the Safe Transport of Radioactive Material, 1996 Edition (Revised), No. TS-R-1 (ST-1, Revised)," published by the International Atomic Energy Agency (IAEA), Vienna, Austria.

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

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This certificate is issued in accordance with paragraph 804 of the IAEA Regulations and Section 173.476 of Title 49 of the Code of Federal Regulations, in response to the November 06, 2013 petition by QSA Global, Inc., Burlington, MA, and in consideration of other information on file in this Office.

Certified By:



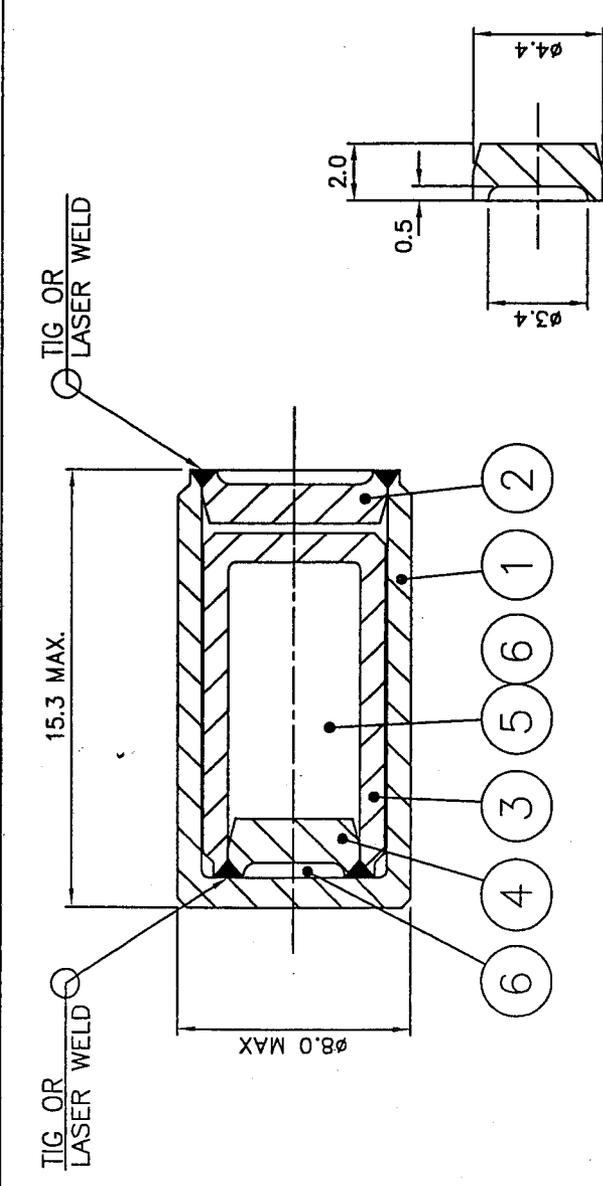
Nov 18 2013

(DATE)

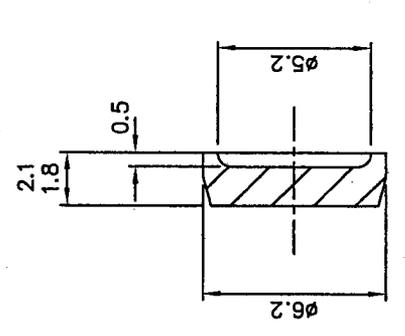
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Dr. Magdy El-Sibaie
Associate Administrator for Hazardous Materials Safety

Revision 3 - Issued to extend the expiration date.

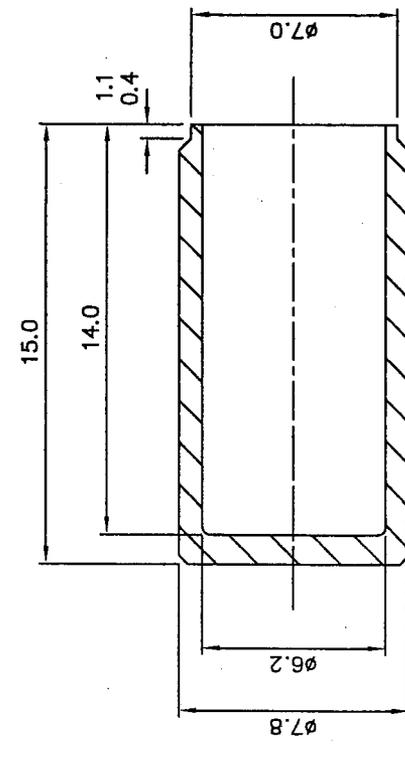
ITEM No.	DESCRIPTION	QTY
1	SHEATH BODY STAIN.STL.	1
2	SHEATH LID STAIN.STL.	1
3	CELL BODY STAIN.STL.	1
4	CELL LID STAIN.STL.	1
5	ACTIVE MATERIAL	A/R
6	CERAMIC FIBRE (OPTIONAL)	A/R



ITEM 4



ITEM 3



ITEM 1

ITEM 2

ITEM 3

APPROVALS	
<i>[Signature]</i>	16 Nov 07
<i>[Signature]</i>	21 Apr 04

DIMENSIONS IN MILLIMETERS
UNLESS OTHERWISE STATED TOLERANCES:

X ±0.5
XX ±0.1
XXX ±0.05
ANGULAR ±5°

INTERNAL ∇
EXTERNAL ∇

		DESCRIPTIVE DRAWING	
TITLE X21 CAPSULE ASSEMBLY			
SIZE A	DWG. NO. RBA11027	SCALE: NONE	SHEET 1 OF 1
REV	A	REV	A

ERF # 828



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Safety Administration**

CERTIFICATE NUMBER: USA/0672/S-96, Revision 3

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