



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/0684/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 Agency<sup>1</sup> and the United States of America<sup>2</sup> for the transport of radioactive material.

1. Source Identification - QSA Global, Inc. Model X2087 (Manufactured on or after November 10, 1986).
2. Source Description - Annular cylindrical double encapsulation made of stainless steel and tungsten inert gas or laser seal welded. Approximate exterior dimensions are 35.6 mm (1.4 in.) in diameter and 13.0 mm (0.51 in.) in length. Minimum wall thickness of the outer encapsulation is 0.48 mm (0.019 in.). Construction shall be in accordance with attached AEA Technology QSA, Inc. Drawing No. RBA61772, Rev. A.
3. Radioactive Contents - No more than 40.0 GBq (1.08 Ci) of Americium-241. The Am-241 is in the form of an oxide mixed with a beryllium powder that is then pressed into a pellet.
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.

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<sup>1</sup> "Regulations for the Safe Transport of Radioactive Material, 2012 Edition, No. SSR-6" published by the International Atomic Energy Agency (IAEA), Vienna, Austria.

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

**CERTIFICATE USA/0684/S-96, REVISION 3**


5. Expiration Date - This certificate expires on February 28, 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 January 28, 2019 petition by QSA Global, Inc., Burlington, MA, and in consideration of other information on file in this Office.

Certified By:

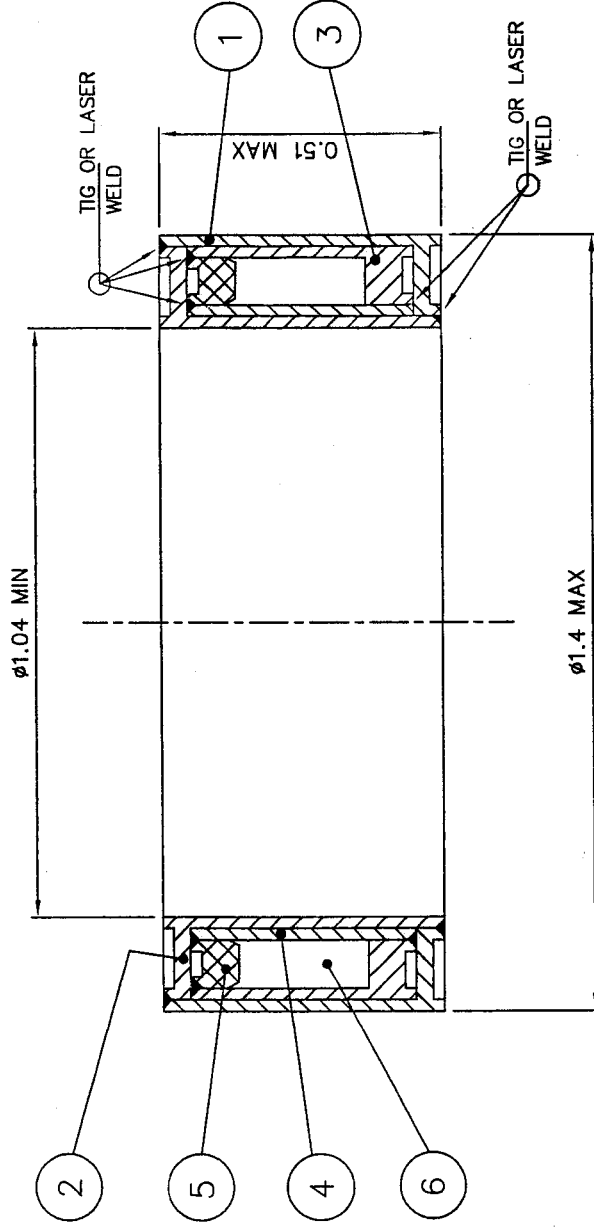


February 05, 2019  
(DATE)

 William Schoonover  
Associate Administrator for Hazardous  
Materials Safety

Revision 3 - Issued to extend the expiration date.

| Item No | Description                 | No off |
|---------|-----------------------------|--------|
| 1       | OUTER SHEATH<br>STAIN.STL.  | 1      |
| 2       | INNER SHEATH<br>STAIN.STL.  | 1      |
| 3       | CELL BODY<br>STAIN.STL.     | 1      |
| 4       | CELL INNER<br>STAIN.STL.    | 1      |
| 5       | CELL END RING<br>STAIN.STL. | 1      |
| 6       | ACTIVE MATERIAL             | A/R    |



| APPROVALS          |           |
|--------------------|-----------|
| <i>R. J. Moore</i> | 7 Sept 07 |
| <i>X. P. de la</i> | 7 Sept 07 |

DIMENSIONS IN INCHES  
UNLESS OTHERWISE STATED TOLERANCES:

|         |       |          |    |
|---------|-------|----------|----|
| X       | ±0.5  | INTERNAL | N7 |
| X.X     | ±0.1  | INTERNAL | N7 |
| X.XX    | ±0.05 | EXTERNAL | N9 |
| ANGULAR | ±5°   |          |    |

|  |  |                                |              |
|--|--|--------------------------------|--------------|
| <b>AEATECHNOLOGY</b><br>QSA<br>40 NORTH AVE., BURLINGTON, MA 01803 |  | <b>DESCRIPTIVE<br/>DRAWING</b> |              |
| TITLE X2087 CAPSULE ASSEMBLY                                       |  | SIZE A                         | REV A        |
| DWG. NO. RBA61772  |  | SCALE: NONE                    | SHEET 1 OF 1 |

ERF # 891



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**CERTIFICATE NUMBER:** USA/0684/S-96

**ORIGINAL REGISTRANT(S) :**

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

Schlumberger  
300 Schlumberger Drive  
MD-121  
Sugar Land, TX, 77478  
USA