



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/0631/S, REVISION 7**

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 No. X.3 (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 outer dimensions are 22.5 mm (0.89 in.) in diameter and 31.2 mm (1.23 in.) in length. Minimum wall thickness of the outer encapsulation is 1.2 mm (0.05 in.). Construction shall be in accordance with attached AEA Technology QSA, Inc. Drawing No. RBA11006, Rev. A.
3. Radioactive Contents - No more than either 185.0 GBq (5.0 Ci) of Americium-241, 185.0 GBq (5.0 Ci) of Plutonium-238, or 37.0 GBq (1.0 Ci) of Radium-226. The Am-241 and Pu-238 are in oxide form and mixed with a beryllium powder and pressed into a solid pellet. The Ra-226 is in the form of a sulphate or chloride.
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, 2018 Edition, No. SSR-6 (Rev. 1)" 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/0631/S, REVISION 7**

5. Expiration Date - This certificate expires on December 31, 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 October 29, 2025 petition by QSA Global, Inc., Burlington, MA, and in consideration of other information on file in this Office.

Certified By:



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William Quade  
Acting Associate Administrator for  
Hazardous Materials Safety

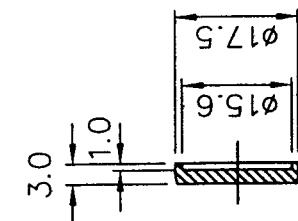
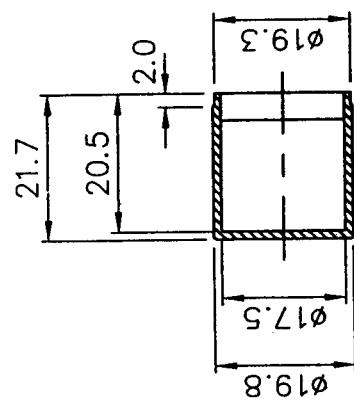
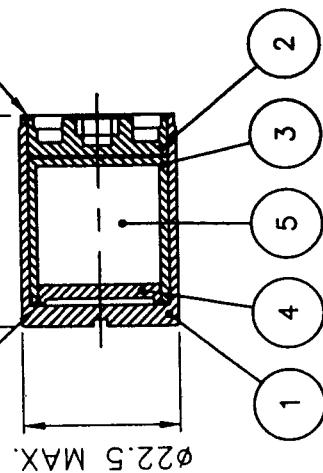
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December 19, 2025  
(DATE)

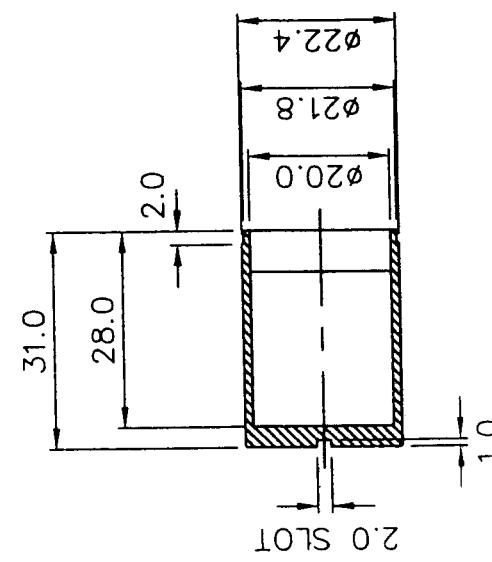
Revision 7 - Issued to endorse to 2018 edition of the IAEA Regulations for the Safe Transport of Radioactive Material, SSR-6 (Rev. 1) and to extend the expiration date.

| ITEM No. | DESCRIPTION     | QTY.       |
|----------|-----------------|------------|
| 1        | SHEATH BODY     | STAIN.STL. |
| 2        | SHEATH LID      | STAIN.STL. |
| 3        | CELL BODY       | STAIN.STL. |
| 4        | CELL LID        | STAIN.STL. |
| 5        | ACTIVE MATERIAL | AR         |

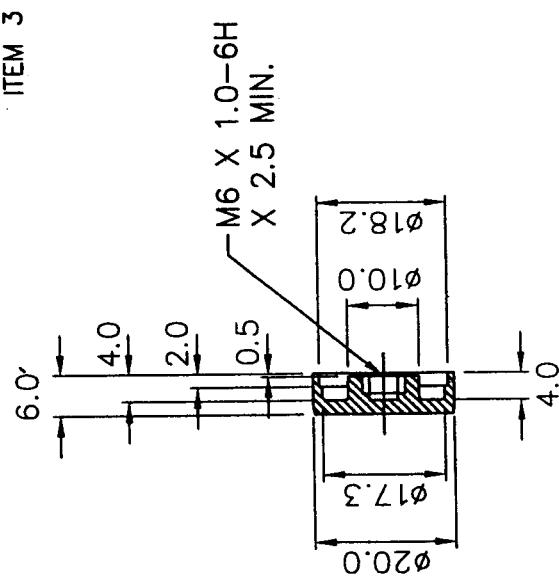
TIG OR LASER WELD TO SEAL  
31.2 MAX. AFTER WELDING  
Ø22.5 MAX.



ITEM 4



ITEM 1



ITEM 2

|           |                                    |
|-----------|------------------------------------|
| APPROVALS | <i>Mark J. Murphy</i><br>16 Apr 93 |
| QA        | <i>John C. Miller</i><br>16 Apr 93 |

|             |        |                     |          |
|-------------|--------|---------------------|----------|
| TITLE       |        | X3 CAPSULE ASSEMBLY |          |
| DWG. NO.    |        | RBA11006            |          |
| SIZE        | INCHES | INTERNAL            | EXTERNAL |
| A           | MM     | MM                  | MM       |
| SCALE: NONE |        | SHEET 1 OF 1        |          |
| REV         | A      |                     |          |

AEATECHNOLOGY  
QSA  
40 NORTH AVE, BURLINGTON, MA 01803

DIMENSIONS IN MILLIMETERS  
UNLESS OTHERWISE STATED TOLERANCES:  
X  $\pm 0.5$  INTERNAL  
XX  $\pm 0.1$  EXTERNAL  
XXX  $\pm 0.05$   
ANGULAR  $\pm 5^\circ$

DESCRIPTIVE  
DRAWING





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Safety Administration**

**CERTIFICATE NUMBER:** USA/0631/S-96

**ORIGINAL REGISTRANT(S) :**

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