



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/0797/S-96, REVISION 1

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 X9102.
2. Source Description - Cylindrical single encapsulation made of titanium and tungsten inert gas or laser seal welded. The radioactive material may be inside an inner assembly of either titanium, vanadium or zirconium alloys. The capsule may also contain metallic spacers or springs to secure the radioactive material or inner assembly within the capsule. Approximate outer dimensions are 4.83 mm (0.19 in.) in diameter and 6.86 mm (0.27 in.) in length. Construction shall be in accordance with attached QSA Global, Inc. Drawing No. R87527-17-1, Rev. B.
3. Radioactive Contents - No more than 7.4 TBq (200 Ci) of Selenium-75. The Se-75 is in the form of a physically inert and stable metal-selenide compound.
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.

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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5. Expiration Date - This certificate expires on October 31, 2023. 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 1, 2018 petition by QSA Global, Inc., Burlington, MA, and in consideration of other information on file in this Office.

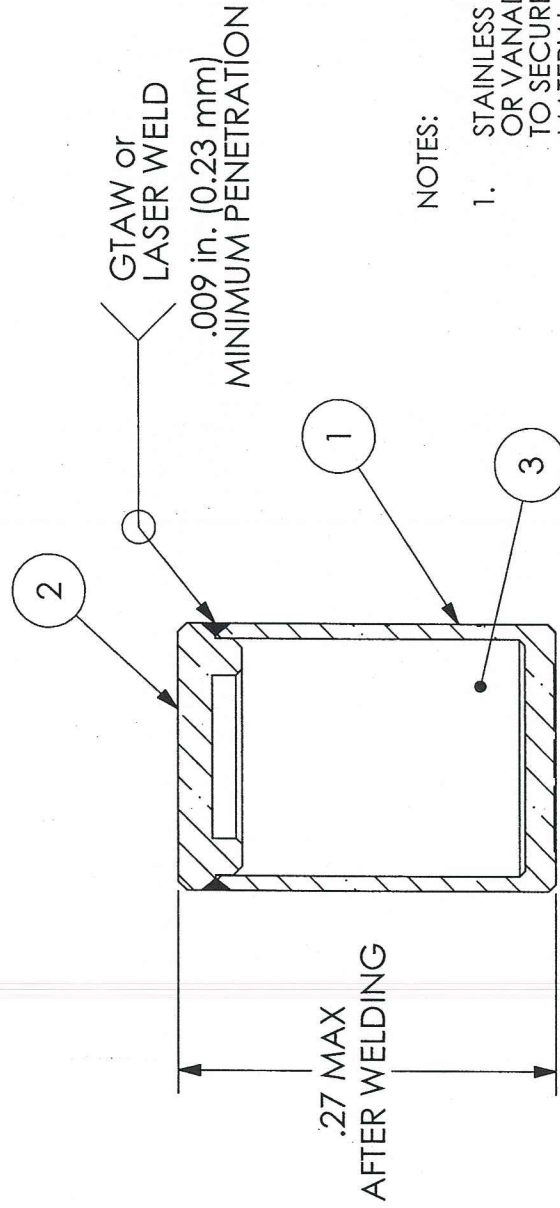
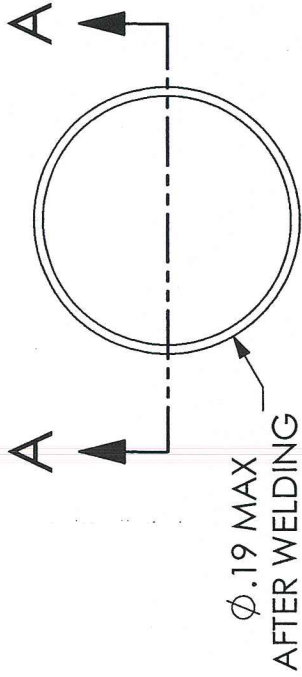
Certified By:



October 09, 2018
(DATE)

 William Schoonover
Associate Administrator for Hazardous
Materials Safety

Revision 1 - Issued to extend expiration date.



NOTES:

1. STAINLESS STEEL, TITANIUM, TITANIUM ALLOY, OR VANADIUM SPACERS OR SPRINGS TO SECURE AND / OR LOCATE THE ACTIVE MATERIAL OR INNER SOURCE TARGET (MADE USING VANADIUM, TITANIUM OR ZIRCONIUM ALLOY COMPONENTS) WITHIN THE CAPSULE MAY BE USED.

UNLESS OTHERWISE SPECIFIED:

ALL DIMENSIONS ARE INCHES, TOLERANCE $\pm 1/16$



**DESCRIPTIVE
DRAWING**

40 NORTH AVE. BURLINGTON, MA 01803

| | | | | | |
|----------|----|-----------------------------|----------------|------------------------|--|
| 3 | AR | ACTIVE MATERIAL | -- | | |
| 2 | 1 | X9102 CAPSULE LID | TITANIUM ALLOY | | |
| 1 | 1 | X9102 CAPSULE BODY | TITANIUM ALLOY | | |
| ITEM QTY | | TITLE | | MATERIAL | |
| | | TITLE | | X9102 CAPSULE ASSEMBLY | |
| ERF # | | APPROVALS | | DATE | |
| 3005 | | <i>[Signature]</i> | | 18 DEC 13 | |
| | | <i>[Signature]</i> | | 18 Dec 13 | |
| | | DWG. NO. R87527-17-1 | | REV B | |
| | | SCALE: NONE | | SHEET 1 OF 1 | |



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CERTIFICATE NUMBER: USA/0797/S-96

ORIGINAL REGISTRANT(S) :

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