



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/0646/S-96, REVISION 7

This certifies that the sources described have 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. Models X1094 and AX1094 (Both models manufactured on or after February 26, 1981).
2. Source Description - Cylindrical single encapsulations made of stainless steel and tungsten inert gas or laser seal welded. Approximate exterior dimensions are 6.03 mm (0.24 in.) in diameter and 14.4 mm (0.57 in.) in length. Minimum wall thickness is 0.65 mm (0.025 in.). Construction shall be in accordance with attached QSA Global, Inc. Drawing No. RBA62444, Rev. C.
3. Radioactive Contents - No more than 40.0 GBq (1.1 Ci) of Californium-252. The Cf-252 is in the form of a metal wire or an oxide solid ceramic.
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 September 30, 2027. Previous editions which have not reached their expiration date may continue to be used.

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.

CERTIFICATE USA/0646/S-96, REVISION 7

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 August 4, 2022 petition by QSA Global, Inc., Burlington, MA, and in consideration of other information on file in this Office.

Certified By:



September 15,
2022

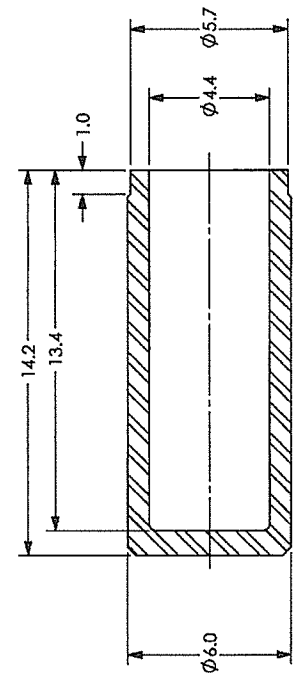
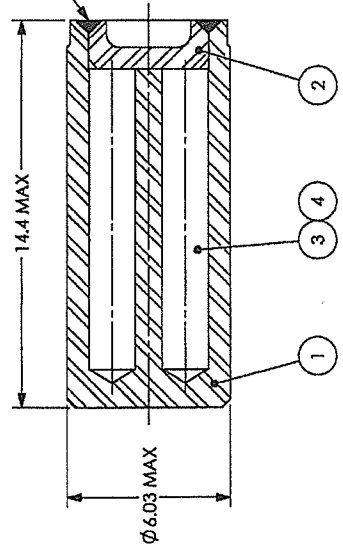
(DATE)

 William Schoonover
Associate Administrator for Hazardous
Materials Safety

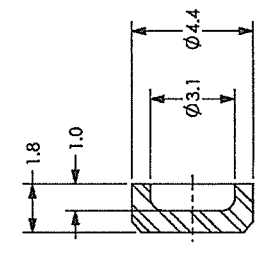
Revision 7 - Issued to extend the expiration date.

| ITEM # | DESCRIPTION | QTY. |
|--------|--------------------------------|------|
| 1 | SHEATH BODY STAIN.STL. | 1 |
| 2 | SHEATH LID STAIN.STL. | 1 |
| 3 | ACTIVE MATERIAL AR | AR |
| 4 | CERAMIC FIBER [OPTIONAL] AR | AR |

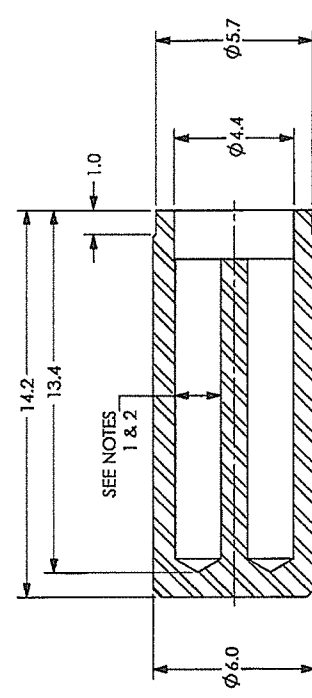
TIG OR LASER
WELD TO SEAL



ITEM 1



ITEM 2



ITEM 1
ALTERNATE CONFIGURATION

- NOTES:
- MINIMUM SIDE WALL THICKNESS 0.65MM; DRILL POINT OPTIONAL.
 - ITEM 1 CAN BE MACHINED WITH MULTIPLE CAVITIES SO LONG AS THE SIDE WALL MEETS THE LIMIT IN NOTE 1 AND THE MACHINED DEPTH DOES NOT EXCEED 13.4MM.

UNLESS OTHERWISE SPECIFIED:
ALL DIMENSIONS ARE MILLIMETERS, TOLERANCE ± 0.1



40 NORTH AVE, BURLINGTON, MA 01803

**DESCRIPTIVE
DRAWING**

TITLE X1094 & AX1094 CAPSULE ASSY

| ERF # | APPROVALS | DATE |
|-------|---|--------------|
| 3650 | e-Signed by Brian Cloward on 2017-05-17 20:38:48 GMT | May 17, 2017 |
| | e-Signed by Ted Podesak on 2017-05-16 15:52:11 GMT | May 18, 2017 |

SIZE DWG. NO. RBA62444

SCALE: NONE

SHEET 1 OF 1

REV C



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ORIGINAL REGISTRANT(S) :

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