



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

**IAEA CERTIFICATE OF COMPETENT AUTHORITY
SPECIAL FORM RADIOACTIVE MATERIALS
CERTIFICATE USA/0646/S-96, REVISION 5**

East Building, PHH-23
1200 New Jersey Avenue Southeast
Washington, D.C. 20590

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. 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 February 28, 2018. On September 30, 2017, this certificate supersedes all previous revisions of USA/0646/S-96.

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 May 30, 2017 petition by QSA Global, Inc., Burlington, MA, and in consideration of other information on file in this Office.

Certified By:



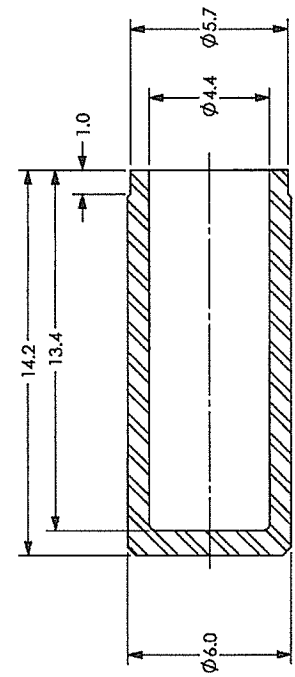
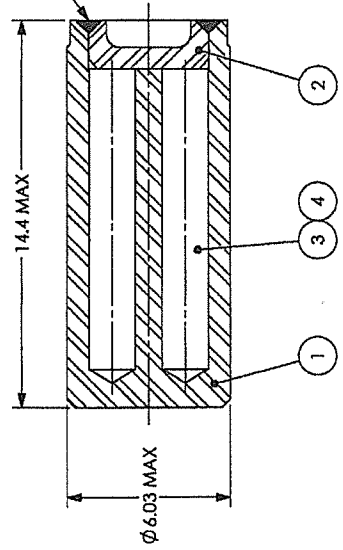
William Schoonover
Acting Associate Administrator for Hazardous Materials Safety

Jul 18 2017
(DATE)

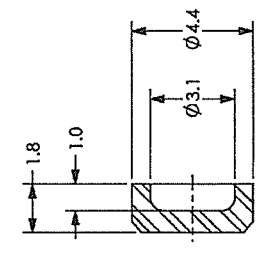
Revision 5 - Issued to allow modified cavity construction.

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

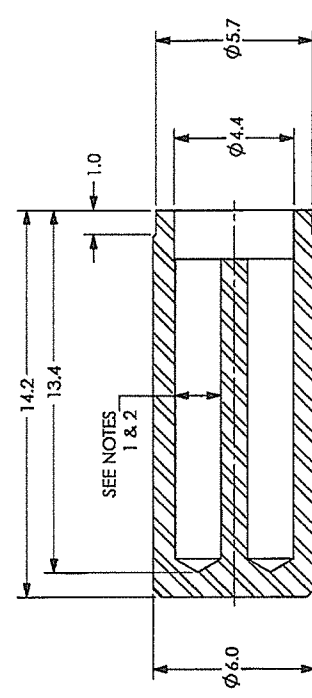
TIG OR LASER
WELD TO SEAL



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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Safety Administration**

CERTIFICATE NUMBER: USA/0646/S-96, Revision 5

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