U.S. Department
of Transportation

**Pipeline and
Hazardous Materials
Safety Administration**

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

**IAEA CERTIFICATE OF COMPETENT AUTHORITY
SPECIAL FORM RADIOACTIVE MATERIALS
CERTIFICATE USA/0789/S-96, REVISION 0**

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 Agency[1] and the United States of America[2] for the transport of radioactive material.

1. Source Identification - QSA Global, Inc. Models X9092/1, X9092/2 and X9092/3.

2. Source Description - Cylindrical triple encapsulations made of stainless steel and seal welded. Approximate outer dimensions are 14.5 mm (0.57 in.) in diameter and 21.1 mm (0.83 in.) in length. Construction shall be in accordance with attached QSA Global, Inc. Drawing No. RB00324, Rev, A.

3. Radioactive Contents - No more than 185 GBq (5 Ci) of Cesium-137. The Cs-137 is a solid in the form of a cesium in a silicate glass matrix, sulfate pellet, compressed anhydrous chloride pellet, or aluminosilicate ceramic pellet.

4. Quality Assurance - Records of Quality Assurance activities required by Paragraph 310 of the IAEA regulations[1] 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 January 31, 2017.

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[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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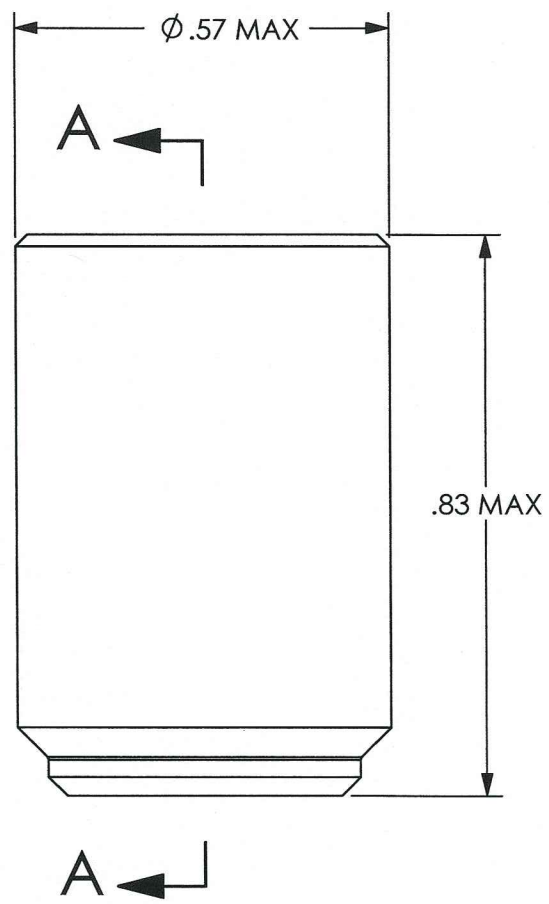
This certificate is issued in accordance with paragraph 804 of the IAEA Regulations and Section 173.476 of Title 49 of the Code of Federal Regulations, in response to the December 21, 2011 petition by QSA Global, Inc., Burlington, MA, and in consideration of other information on file in this Office.

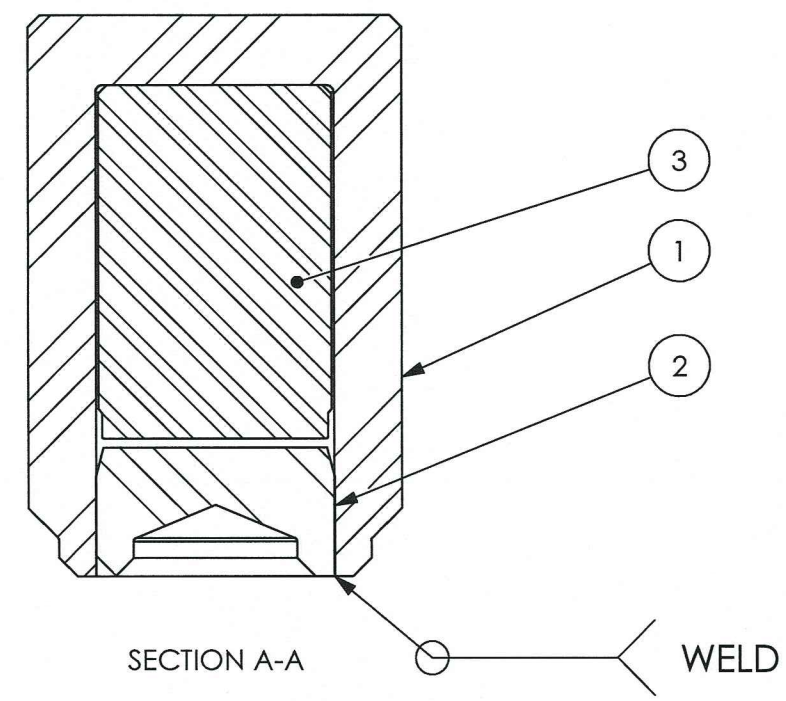
Certified By:

Dr. Magdy El-Sibaie
Associate Administrator for Hazardous Materials Safety

Jan 27 2012
(DATE)

Revision 0 - Original issue.





ITEM	QTY	TITLE
3	1	SEALED SOURCE - SEE TABLE 1
2	1	LID, X9092/n
1	1	BODY, X9092/n

UNLESS OTHERWISE SPECIFIED:

ALL DIMENSIONS ARE INCHES, TOLERANCE ±1/16

QSA GLOBAL

40 NORTH AVE, BURLINGTON, MA 01803

DESCRIPTIVE DRAWING

TITLE **SOURCE ASSEMBLY, X9092/n**

SIZE	DWG. NO.	REV
B	RB00324	A
	SCALE: 4:1	SHEET 1 OF 1

TABLE 1 - CAPSULE CONFIGURATIONS/MATERIALS

FINAL CAPSULE CONFIGURATION	CAPSULE(S) MATERIAL
X9092/1 VERSION 1 - TRIPLE ENCAPSULATION	NICKEL ALLOY UNS N06230 (OUTER) 316L SS 316L SS
X9092/2 VERSION 2 - TRIPLE ENCAPSULATION	NICKEL ALLOY UNS N06230 (OUTER) 316L SS 316L SS
X9092/3 VERSION 3 - TRIPLE ENCAPSULATION	NICKEL ALLOY UNS N06230 (OUTER) 316L SS 316L SS 300 SERIES (SS) SPACER

ERF #	APPROVALS	DATE
2674	M. Vose [signature]	21 Dec 11
	[signature]	21 Dec 11

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CERTIFICATE NUMBER: USA/0789/S-96, Revision 0

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