



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

**IAEA CERTIFICATE OF COMPETENT AUTHORITY
SPECIAL FORM RADIOACTIVE MATERIALS
CERTIFICATE USA/0805/S-96, REVISION 0**

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

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 X9103.
2. Source Description - Cylindrical single encapsulation made of 300 series stainless steel and tungsten inert gas or laser seal welded. The radioactive material may be inside an inner assembly made of vanadium, titanium, titanium alloy, or zirconium alloy. The capsule may also contain stainless steel, titanium, titanium alloy, or vanadium spacers or springs to secure the radioactive material or inner assembly within the capsule. Approximate outer dimensions are 6.86 mm (0.27 in.) in diameter and 26.92 mm (1.06 in.) in length. Construction shall be in accordance with attached QSA Global, Inc. Drawing No. R90017-1, Rev. A.
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. 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 November 30, 2019.

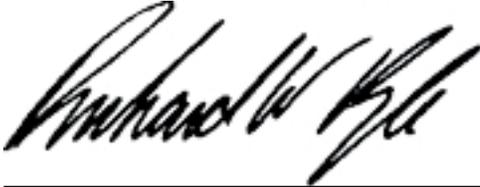
¹ "Regulations for the Safe Transport of Radioactive Material, 1996 Edition (Revised), No. TS-R-1 (ST-1, Revised)," published by the International Atomic Energy Agency (IAEA), Vienna, Austria.

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 October 24, 2014 petition by QSA Global, Inc., Burlington, MA, and in consideration of other information on file in this Office.

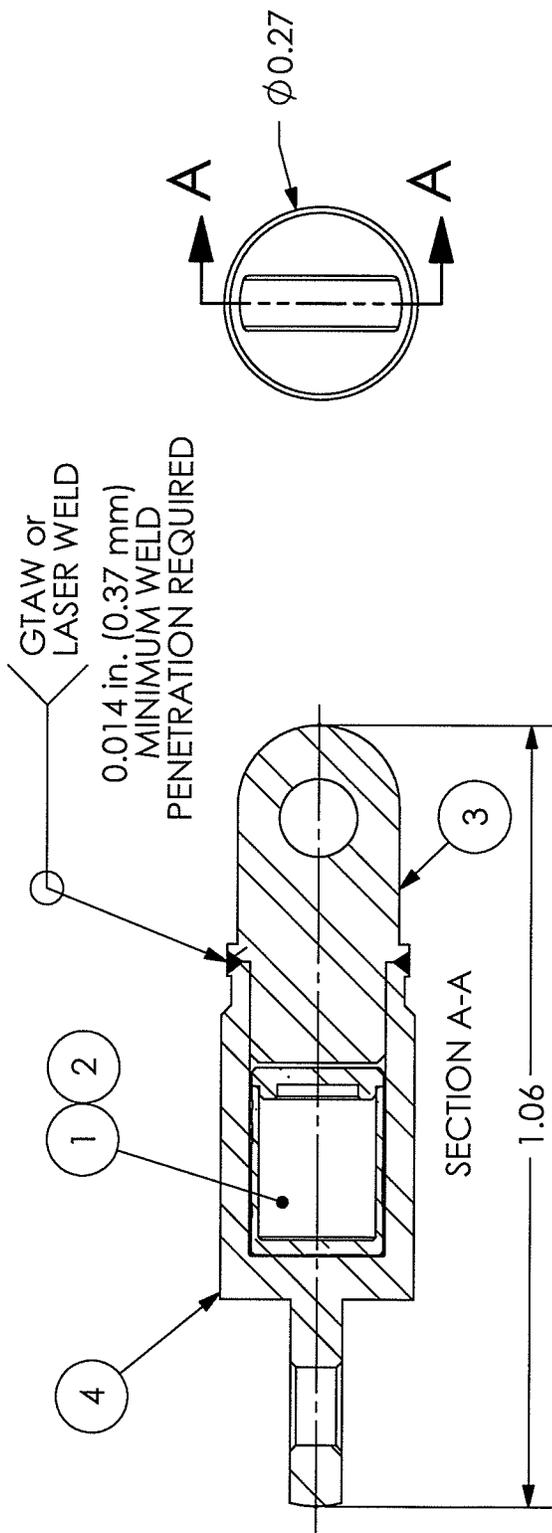
Certified By:



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

Dec 09 2014
(DATE)

Revision 0 - Original issue.



NOTES:

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

UNLESS OTHERWISE SPECIFIED:
ALL DIMENSIONS ARE INCHES, TOLERANCE ±1/16

4	1	X9103 Se LINK BODY	STAINLESS STEEL
3	1	X9103 Se LINK SHANK	STAINLESS STEEL
2	1	ACTIVE CAPSULE / TARGET	--
1	1	INNER CAPSULE ASSEMBLY (OPTIONAL)	--
ITEM	QTY	TITLE	MATERIAL



40 NORTH AVE. BURLINGTON, MA 01803

**DESCRIPTIVE
DRAWING**

TITLE X9103

ERF #	APPROVALS	DATE
3160	<i>[Signature]</i>	20 OCT 14
	<i>[Signature]</i>	24 OCT 14

SIZE	DWG. NO.	REV
A	R90017-1	A
	SCALE: NONE	SHEET 1 OF 1



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CERTIFICATE NUMBER: USA/0805/S-96, Revision 0

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