

U.S. Department of Transportation

## IAEA CERTIFICATE OF COMPETENT AUTHORITY SPECIAL FORM RADIOACTIVE MATERIALS

Pipeline and Hazardous Materials Safety Administration CERTIFICATE USA/0722/S-96, REVISION 3

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 Agency $^1$  and the United States of America $^2$  for the transport of radioactive material.

- 1. <u>Source Identification</u> QSA Global, Inc. Model X0779 Source Assembly (Manufactured on or after July 5, 1988).
- 2. Source Description Cylindrical single encapsulation made of stainless steel and tungsten inert gas or laser seal welded. Approximate outer dimensions of the single encapsulation are 3.0 mm (0.12 in.) in diameter and 26.3 mm (1.04 in.) in length. Nominal wall thickness is 0.15 mm (0.006 in.). The single encapsulation must be installed inside the rectangular shutter housing secured with screws welded in-place. Approximate outside dimensions of the shutter housing are 22.0 mm (0.87 in.) in height, 65.0 mm (2.56 in.) in width, and 45.0 mm (1.77 in.) in length. Construction shall be in accordance with attached AEA Technology QSA, Inc. Drawing Nos. RBA62007, Rev. A and RBA61601, Rev. A.
- 3. <u>Radioactive Contents</u> No more than 7.4 GBq (200.0 mCi) of Americium-241. The Am-241 is in the form of an oxide incorporated into a ceramic enamel.

<sup>&</sup>lt;sup>1</sup> "Regulations for the Safe Transport of Radioactive Material, 2012 Edition, No. SSR-6" published by the International Atomic Energy Agency (IAEA), Vienna, Austria.

<sup>&</sup>lt;sup>2</sup> Title 49, Code of Federal Regulations, Parts 100-199, United States of America.

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- 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 August 29, 2025. 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 July 1, 2020 petition by QSA Global, Inc., Burlington, MA, and in consideration of other information on file in this Office.

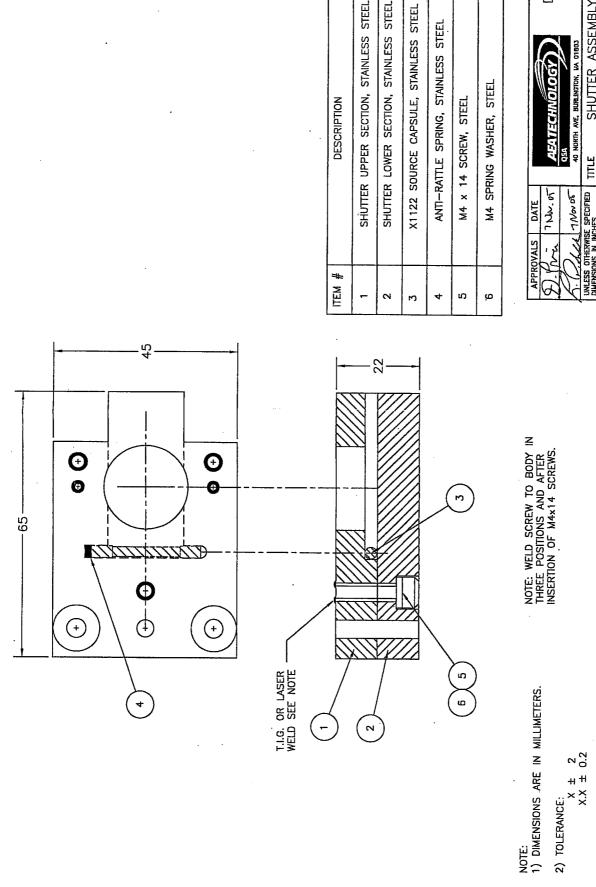
Certified By:

William Schoonover

William Schoonover
Associate Administrator for Hazardous
Materials Safety

August 05, 2020 (DATE)

Revision 3 - Issued to extend the expiration date.



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DESCRIPTION

DESCRIPTIVE DRAWING

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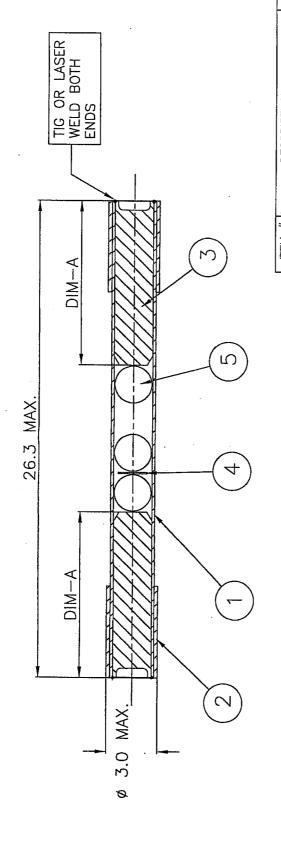
SHUTTER ASSEMBLY X0779 40 NORTH AVE, BURLINGTON, MA 01803

NT.S SIZE DWG. NO. SCALE:

FRACTIONS ± 1/8
XX ± 0.12
X.XX ± 0.06
X.XX ± 0.06
X.XXX ± 0.020 1164

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1) DIMENSIONS ARE IN MILLIMETERS.

NOTE:

2) SLEEVES, ITEM 2, TO BE ATTACHED TO BODY , ITEM 1, WITH EPOXY RESIN.

	ITEM #	DESCRIPTION	QTY.
	1	BODY, STAINLESS STEEL	
	2	SLEEVE, STAINLESS STEEL	2
l	23	PLUG, STAINLESS STEEL	2
	4	CERAMIC FIBER PACKING	A/R
·3	5	Am241 GLASS BEADS	A/R
APPROVALS	DATE		
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TYPE

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Pipeline and Hazardous Materials Safety Administration

CERTIFICATE NUMBER: USA/0722/S-96

## ORIGINAL REGISTRANT(S):

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