



U.S. Department
of Transportation

Pipeline and
Hazardous Materials
Safety Administration

IAEA CERTIFICATE OF COMPETENT AUTHORITY
SPECIAL FORM RADIOACTIVE MATERIALS

CERTIFICATE USA/0722/S, REVISION 4

East Building, PHH-23
1200 New Jersey Ave, SE
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 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 No. RBA62007, Rev. and AEA Technology QSA, Inc. Drawing No. RBA61601, Rev. A.
3. Radioactive Contents - 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.

¹ "Regulations for the Safe Transport of Radioactive Material, 2018 Edition, No. SSR-6 (Rev. 1)" 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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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 May 16, 2030. 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 April 30, 2025 petition by QSA Global, Inc., Burlington, MA, and in consideration of other information on file in this Office.

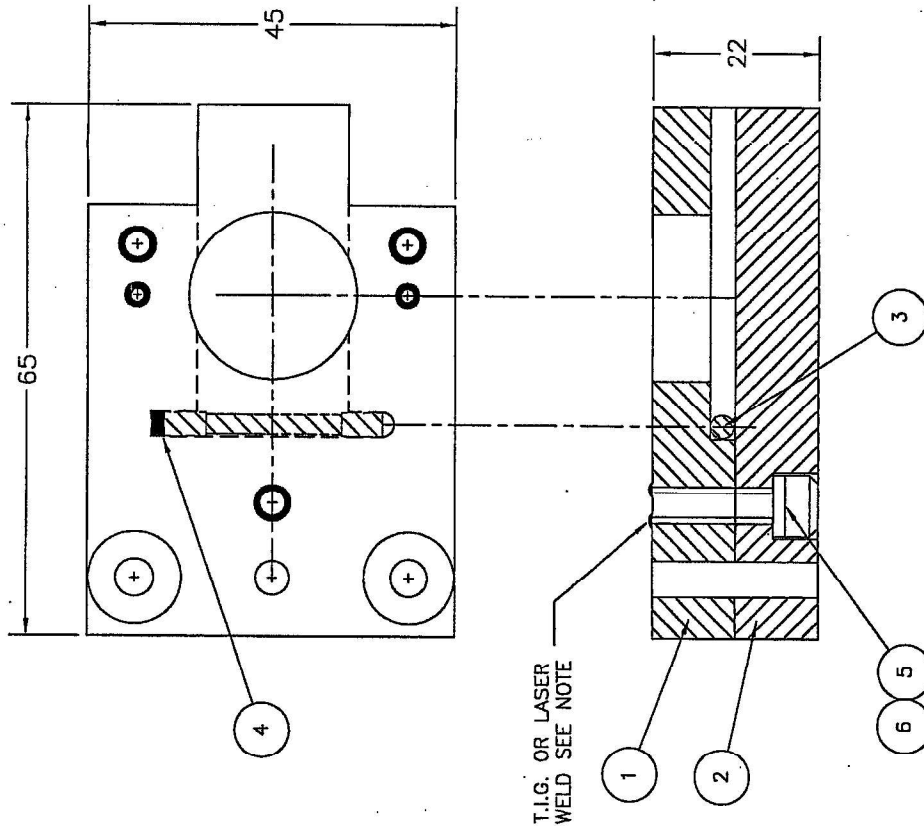
Certified By:



William Schoonover
Associate Administrator for Hazardous
Materials Safety

May 12, 2025
(DATE)

Revision 4 - Issued to endorse to 2018 Edition of IAEA Regulations for the Safe Transport of Radioactive Materials, SSR-6 (Rev. 1), and to extend the expiration date.



T.I.G. OR LASER
WELD SEE NOTE

NOTE: WELD SCREW TO BODY IN
THREE POSITIONS AND AFTER
INSERTION OF M4x14 SCREWS.

NOTE:
1) DIMENSIONS ARE IN MILLIMETERS.

2) TOLERANCE:
X ± 2
X.X ± 0.2

ITEM #	DESCRIPTION	QTY.
1	SHUTTER UPPER SECTION, STAINLESS STEEL	1
2	SHUTTER LOWER SECTION, STAINLESS STEEL	1
3	X1122 SOURCE CAPSULE, STAINLESS STEEL	1
4	ANTI-RATTLE SPRING, STAINLESS STEEL	1
5	M4 x 14 SCREW, STEEL	3
6	M4 SPRING WASHER, STEEL	1



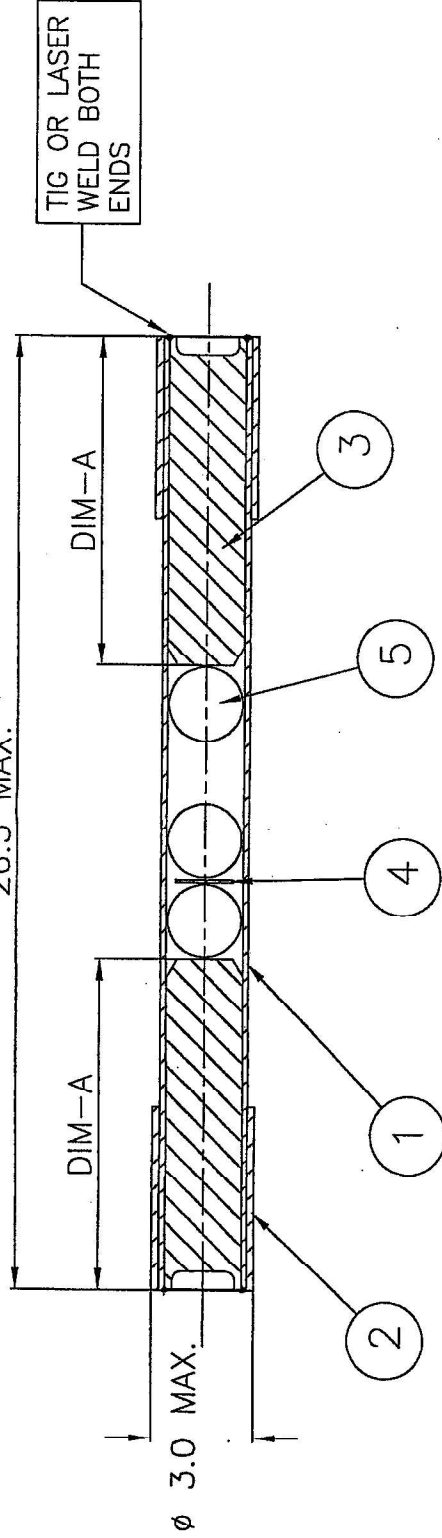
DESCRIPTIVE
DRAWING

TITLE SHUTTER ASSEMBLY X0779

SIZE	DWG. NO.	RE
B	RBA62007	A
SCALE:	NTS	SHEET 1 OF 1

ERF#
1164

26.3 MAX.



NOTE:

1) DIMENSIONS ARE IN MILLIMETERS.

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

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

TYPE	DIM-A
X1122/1	5
X1122/2	9



DESCRIPTIVE
DRAWING

TITLE
ASSEMBLY DRAWING
CAPSULE X1122 /1 & /2

SIZE	DWG. NO.	REVISION
B	RBA61601	1

SCALE: NTS SHEET 1 OF 1

APPROVALS	DATE
<i>[Signature]</i>	7 Nov 07
<i>[Signature]</i>	7 Nov 08

UNLESS OTHERWISE SPECIFIED
DIMENSIONS IN INCHES
TOLERANCES:
FRACTIONS ± 1/8
XX ± 0.12
XXX ± 0.06
XXXX ± 0.020

REF #
1164



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1200 New Jersey Ave, SE
Washington, D.C. 20590

CERTIFICATE NUMBER: USA/0722/S-96

ORIGINAL REGISTRANT(S) :

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