



U.S. Department
of Transportation

Pipeline and
Hazardous Materials
Safety Administration

East Building, PHH-23
1200 New Jersey Ave, SE
Washington, D.C. 20590

IAEA CERTIFICATE OF COMPETENT AUTHORITY
SPECIAL FORM RADIOACTIVE MATERIALS

CERTIFICATE USA/0676/S-96, REVISION 4

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 X451 (Manufactured on or after April 3, 1981).
2. Source Description - Cylindrical single encapsulation made of stainless steel and tungsten inert gas or laser seal welded. Approximate exterior dimensions are 6.7 mm (0.26 in.) in diameter and 23.55 mm (0.93 in.) in length. Minimum wall thickness is 0.5 mm (0.02 in.). Construction shall be in accordance with attached AEA Technology QSA, Inc. Drawing No. RBA60329, Rev. A.
3. Radioactive Contents - No more than 11.0 TBq (297.3 Ci) of either Cobalt-60 or Iridium-192. The Co-60 and Ir-192 are in the form of a metal.
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 September 30, 2028. Previous editions which have not reached their expiration date may continue to be used.

¹ "Regulations for the Safe Transport of Radioactive Material, 2012 Edition, No. SSR-6" 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(s) 804 of the IAEA Regulations and Section 173.476 of Title 49 of the Code of Federal Regulations, in response to the September 6, 2023 petition by QSA Global, Inc., Burlington, MA, and in consideration of other information on file in this Office.

Certified By:



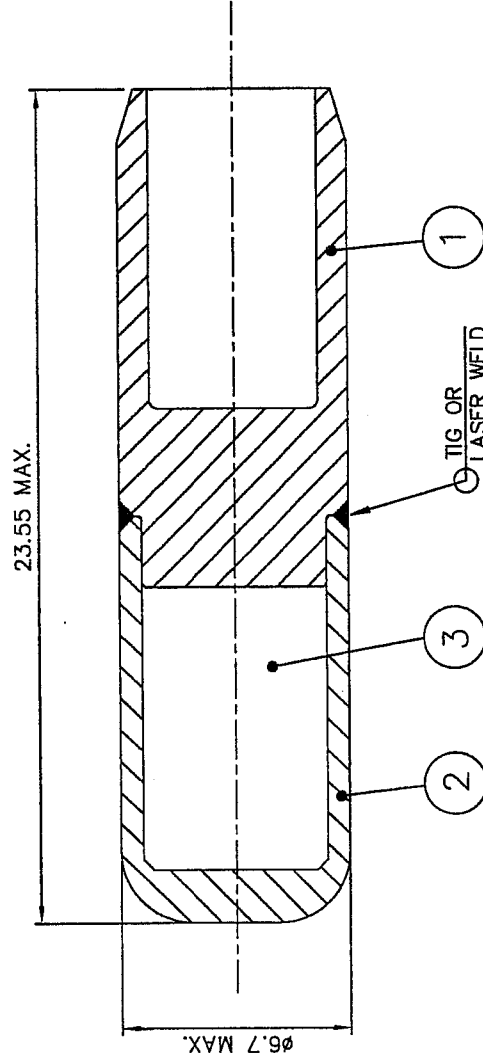
 William Schoonover
Associate Administrator for Hazardous
Materials Safety

September 28,
2023

(DATE)

Revision 4 - Issued to extend the expiration date.

BODY	DESCRIPTION	QTY
1	BODY STAIN. STL.	1
2	LID STAIN. STL.	1
3	ACTIVE MATERIAL	A/R



 40 NORTH AVE, BURLINGTON, MA 01803		DESCRIPTIVE DRAWING	
TITLE X451 CAPSULE ASSEMBLY		REV A	
SIZE A		DWG. NO. RBA60329	
SCALE: NONE		SHEET 1 OF 1	

APPROVALS		DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE STATED TOLERANCES:	
<i>R. W. Moore</i>	6 Jun 04	X ±0.5 XX ±0.1 XXX ±0.05 ANGULAR ±5°	INTERNAL N/ EXTERNAL N/
<i>X. P. P. P.</i>	6 Jul 04		

ERF # 859



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ORIGINAL REGISTRANT(S) :

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