



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/0690/S-96, REVISION 5

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 X2110 Inner Capsule (Manufactured on or after October 29, 1981).
2. Source Description - Cylindrical single encapsulation made of stainless steel and tungsten inert gas or laser seal welded. Approximate exterior dimensions are 25.1 mm (0.99 in.) in diameter and 49.5 mm (1.95 in.) in length. Minimum wall thickness is 1.2 mm (0.05 in.). Construction shall be in accordance with attached QSA Global, Inc. Drawing No. RBA61984-1, Rev. B.
3. Radioactive Contents - No more than 555.0 GBq (15.0 Ci) of Americium-241. The Am-241 is in the form of an oxide and is mixed with a beryllium powder that is then pressed into a solid pellet.
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 December 31, 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 November 28, 2023 petition by QSA Global, Inc., Burlington, MA, and in consideration of other information on file in this Office.

Certified By:



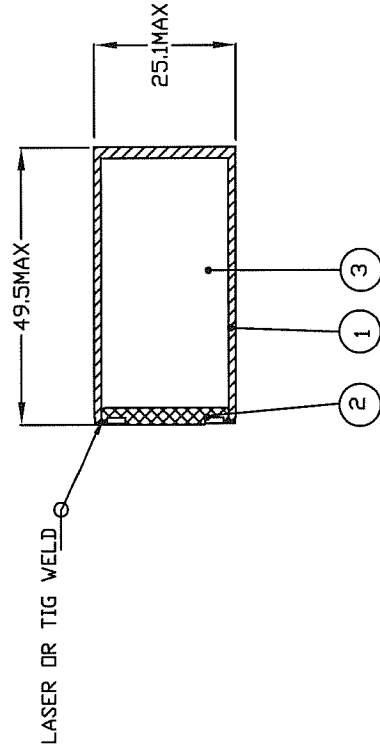
 William Schoonover
Associate Administrator for Hazardous
Materials Safety

December 13, 2023

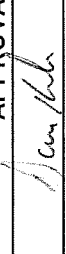
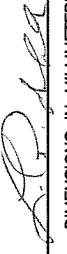
(DATE)

Revision 5 - Issued to extend the expiration date.

Item No	Description	No off
1	CELL BODY STAIN.STL.	1
2	CELL LID STAIN.STL.	1
3	ACTIVE MATERIAL- AmBe	A/R



X2110 CELL ASSEMBLY

		DESCRIPTIVE DRAWING	
40 NORTH AVE. BURLINGTON, MA 01803			
APPROVALS  J. M. Kelly  S. M. O'Neil		TITLE X2110 CELL ASSEMBLY	
DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE STATED TOLERANCES: X ±0.5 XX ±0.1 XXX ±0.05 ANGULAR ±5°		SIZE A DWG. NO. RBA61984-1 SCALE: NONE	
INTERNAL $\frac{N}{7}$ EXTERNAL $\frac{N}{9}$		REV B	
ERF # 1783		SHEET 1 OF 1	



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ORIGINAL REGISTRANT(S) :

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