



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/0639/S-96, REVISION 5

This certifies that the sources described have 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. Models X.1191 and X.1191/1 (Both models manufactured on or after July 23, 1987).
2. Source Description - Cylindrical single encapsulations made of Type 316L stainless steel (Model X.1191) or 17-PH stainless steel (Model X.1191/1) and tungsten inert gas or laser seal welded. Approximate exterior dimensions are 4.3 mm (0.17 in.) in diameter and 22.4 mm (0.88 in.) in length. Minimum wall thickness is 0.8 mm (0.03 in.). Construction shall be in accordance with attached AEA Technology QSA, Inc. Drawing No. RBA61886, Rev. C.
3. Radioactive Contents - No more than 12.0 GBq (324.0 mCi) of Californium-252. The Cf-252 is in the form of metal in californium/palladium alloy and californium/platinum/iridium alloy wire and pellets or as an oxide in a ceramic.
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.

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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5. Expiration Date - This certificate expires on October 31, 2022. 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 October 6, 2017 petition by QSA Global, Inc., Burlington, MA, and in consideration of other information on file in this Office.

Certified By:



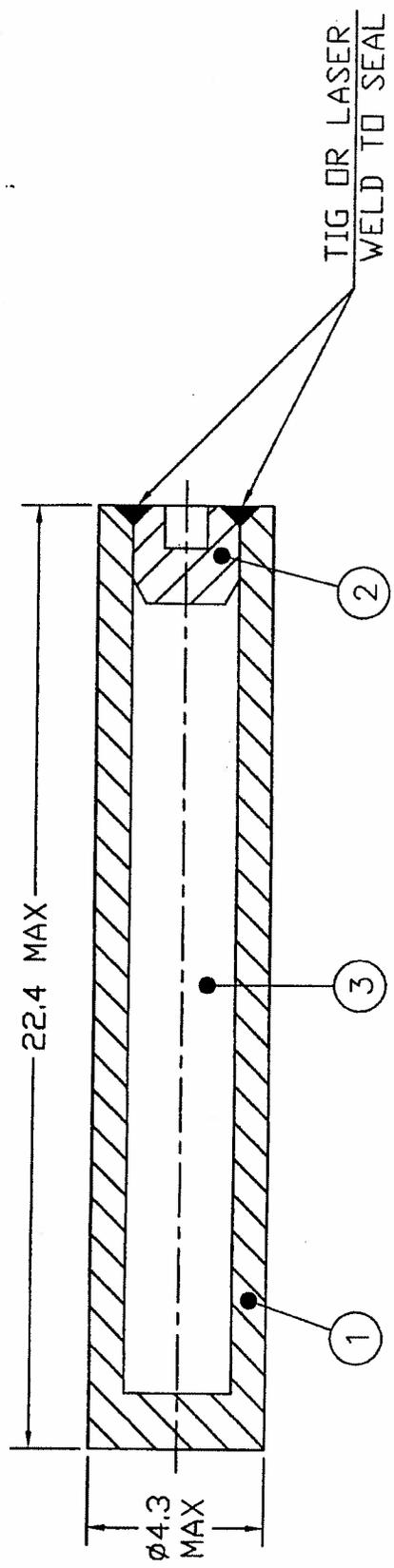
November 03,
2017

 William Schoonover
Associate Administrator for Hazardous
Materials Safety

(DATE)

Revision 5 - Issued to extend the expiration date.

Item #	Description	Qty.
1	CELL BODY STAIN.STL.	1
2	CELL LID STAIN.STL.	1
3	ACTIVE MATERIAL	AR



APPROVALS	
<i>R. J. Munn</i>	21 Feb 05
<i>J. P. ...</i>	21 Feb 05

DIMENSIONS IN MILLIMETERS
UNLESS OTHERWISE STATED TOLERANCES:

X ±0.5
XX ±0.1
XXX ±0.05
ANGULAR ±5'

INTERNAL
EXTERNAL



DESCRIPTIVE
DRAWING

TITLE	X1191 & X1191/1 CAPSULE ASSY
SIZE	DWG. NO. RBA61886
A	SCALE: NONE
REV	C
SHEET 1 OF 1	

ERF # 1001



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CERTIFICATE NUMBER: USA/0639/S-96

ORIGINAL REGISTRANT(S) :

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