



U.S. Department
of Transportation

Pipeline and
Hazardous Materials
Safety Administration

IAEA CERTIFICATE OF COMPETENT AUTHORITY
SPECIAL FORM RADIOACTIVE MATERIALS

CERTIFICATE USA/0179/S-96, REVISION 13

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. Series 900 Iridium Capsule.
2. Source Description - Cylindrical single encapsulation made of Type 304 or Type 304L stainless steel and tungsten inert gas or laser welded. Approximate exterior dimensions are 5.2 mm (0.205 in.) in diameter and 15.5 mm (0.611 in.) in length. Inside dimensions vary, but minimum wall thickness is 0.71 mm (0.028 in.). Construction shall be in accordance with attached QSA Global, Inc. Drawing No. 900 CAP, Rev. C. Source capsules utilizing Type 304 stainless steel must be manufactured after the date of this certificate.
3. Radioactive Contents - No more than 8.88 TBq (240.0 Ci) of Iridium-192 in solid, metallic form.
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 March 31, 2025. 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.

CERTIFICATE USA/0179/S-96, REVISION 13


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 January 10, 2020 petition by QSA Global, Inc., Burlington, MA, and in consideration of other information on file in this Office.

Certified By:

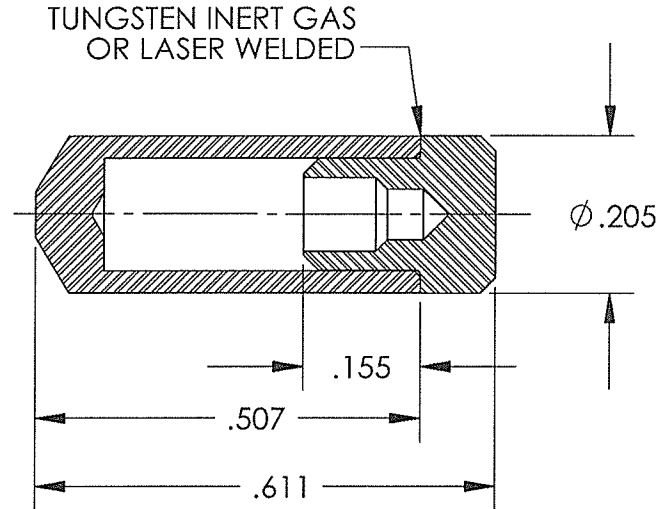


March 04, 2020

(DATE)

 William Schoonover
Associate Administrator for Hazardous
Materials Safety

Revision 13 - Issued to authorize the manufacture of source capsules from Type 304 stainless steel and to extend the expiration date.



NOTES:

1. INTERNAL VOID VOLUME TO BE 0.010 mL OR GREATER



2. MATERIAL: 304 OR 304L STAINLESS STEEL

3. INNER CAVITY DIMENSIONS MAY VARY. METALLIC SPACERS, SPRINGS AND GUARDS WHICH SECURE AND/OR LOCATE THE RADIOACTIVE MATERIAL WITHIN THE CAPSULE MAY BE USED

4. MINIMUM WALL THICKNESS TO BE 0.028



5. TOLERANCES: FRACTIONS $\pm 1/8$
 X.X ± 0.12
 X.XX ± 0.06
 X.XXX ± 0.020

UNLESS OTHERWISE SPECIFIED:

ALL DIMENSIONS ARE INCHES, TOLERANCE $\pm 1/16$

QSA GLOBAL

DESCRIPTIVE
DRAWING

40 NORTH AVE, BURLINGTON, MA 01803

ERF #	APPROVALS	DATE	TITLE	900 SERIES CAPSULE
4088	<i>B. Kim</i> <i>M. Flanigan</i>	28 JAN 20 08 Jan 2020	SIZE A	DWG. NO. 900 CAP
			SCALE: NONE	SHEET 1 OF 1
				REV C