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

U.S. Department of Transportation

Pipeline and Hazardous Materials Safety Administration

IAEA CERTIFICATE OF COMPETENT AUTHORITY
SPECIAL FORM RADIOACTIVE MATERIALS

CERTIFICATE USA/0179/S, REVISION 14

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 Agency[1] and the United States of America[2] 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 March 4, 2020.

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 January 31, 2030. Previous editions which have not reached their expiration date may continue to be used.

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[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.

CERTIFICATE USA/0179/S, REVISION 14

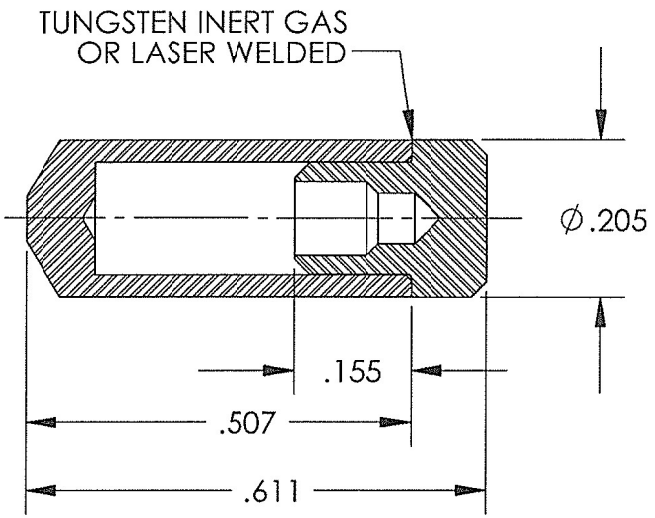
This certificate is issued in accordance with paragraph(s) 804 of the IAEA Regulations and Section 173.476 of Title 49 of the Code of Federal Regulations, in response to the December 11, 2024 petition by QSA Global, Inc., Burlington, MA, and in consideration of other information on file in this Office.

Certified By:

for William Schoonover
Associate Administrator for Hazardous Materials Safety

January 21, 2025
(DATE)

Revision 14 - Issued to extend the expiration date and to issue the certificate to the 2018 edition of SSR-6.



NOTES:

1. INTERNAL VOID VOLUME TO BE 0.010 mL OR GREATER
2. (C) 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. (C) TOLERANCES: FRACTIONS ± 1/8
   X.X ± 0.12
   X.XX ± 0.06
   X.XXX ± 0.020

UNLESS OTHERWISE SPECIFIED:
ALL DIMENSIONS ARE INCHES, TOLERANCE ±1/16

QSA GLOBAL
40 NORTH AVE, BURLINGTON, MA 01803

DESCRIPTIVE DRAWING

ERF #	APPROVALS	DATE
4088	B. [illegible]	28 JAN 20
	M. Flanigan	08 Jan 2020

TITLE: 900 SERIES CAPSULE

SIZE: A | DWG. NO. 900 CAP | REV: C

SCALE: NONE | SHEET 1 OF 1

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U.S. Department of
Transportation

**Pipeline and
Hazardous Materials
Safety Administration**

CERTIFICATE NUMBER: USA/0179/S

ORIGINAL REGISTRANT(S):

QSA Global, Inc.
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Burlington, MA, 01803
USA

Source Production and Equipment Company, Inc.
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