



U.S. Department
of Transportation
**Pipeline and
Hazardous Materials
Safety Administration**

**IAEA CERTIFICATE OF COMPETENT AUTHORITY
SPECIAL FORM RADIOACTIVE MATERIALS
CERTIFICATE USA/0746/S-96, REVISION 2**

East Building, PHH-23
1200 New Jersey Avenue Southeast
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. Model X441 (Manufactured on or after February 7, 1978).
2. Source Description - Cylindrical single encapsulation made of stainless steel and tungsten inert gas seal welded. Approximate outer dimensions are 6.5 mm (0.26 in.) in diameter and 23.8 mm (0.94 in.) in length. Minimum wall thickness is 0.9 mm (0.03 in.). Construction shall be in accordance with attached Amersham Drawing 3A10672, Issue D.
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 solid metal.
4. Quality Assurance - Records of Quality Assurance activities required by Paragraph 310 of the IAEA regulations¹ 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 applicable requirements of Subpart H of 10 CFR 71.
5. Expiration Date - This certificate expires on November 30, 2021.

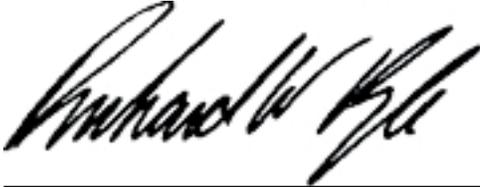
¹ "Regulations for the Safe Transport of Radioactive Material, 1996 Edition (Revised), No. TS-R-1 (ST-1, Revised)," published by the International Atomic Energy Agency (IAEA), Vienna, Austria.

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 804 of the IAEA Regulations and Section 173.476 of Title 49 of the Code of Federal Regulations, in response to the November 02, 2016 petition by QSA Global, Inc., Burlington, MA, and in consideration of other information on file in this Office.

Certified By:



Dec 07 2016

(DATE)

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William Schoonover
Acting Associate Administrator for Hazardous Materials Safety

Revision 2 - Issued to extend the expiration date.

Third Angle Projection

This drawing conforms to BS 308

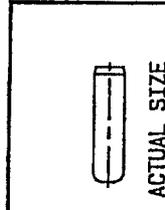
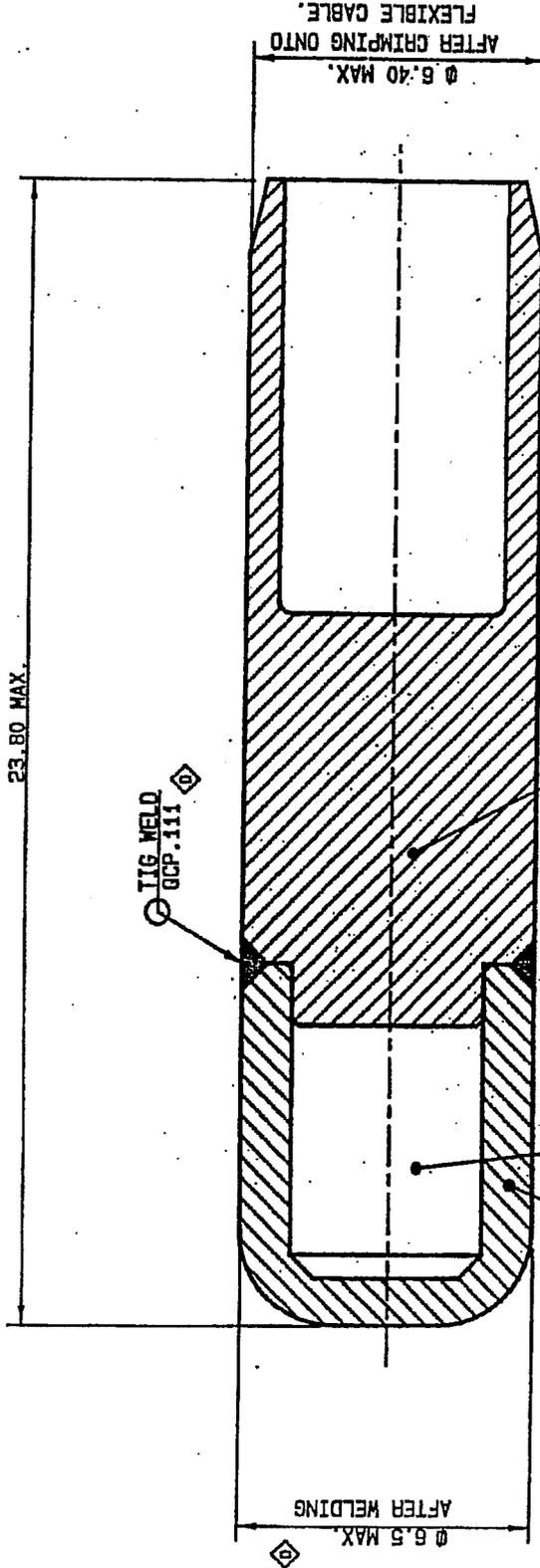


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Item No	Drawing No	Description	No off
1	3A10669	BODY STAIN.STL.	1
2	3A10670	PLUG STAIN.STL.	1
3		ACTIVE MATERIAL	

ENGRAVE TO QCP114

23.80 MAX.



REFERS TO FEATURES AMENDED AT ISSUE SHOWN.

REDRAWN FROM 3RC10672 ISSUE C.

Material & Spec.	Tolerances	Surface Texture	Finish	Issue No.	Date	Drawn	Checked
	Unless stated	✓ Unless stated	Resave all burrs	D MS1071	23-8-93	M.A.	DA 31.9.93
Approval: This Drawing is not to be used for any purpose unless signed as approved				Title			
ASSEMBLY OF X441 CAPSULE				ASSEMBLY OF X441 CAPSULE			
© Amersham Amersham International plc.				Drg. 3A10672			



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ORIGINAL REGISTRANT(S):

Ms. Lori Podolak
Manager, Regulatory Affairs/Quality Assurance
QSA Global, Inc.
40 North Avenue
Burlington, MA 01803

Mr. Michael Fuller
Regulatory Compliance Associate
QSA Global, Inc.
40 North Avenue
Burlington, MA 01803