



U.S. Department
of Transportation

Pipeline and
Hazardous Materials
Safety Administration

IAEA CERTIFICATE OF COMPETENT AUTHORITY
SPECIAL FORM RADIOACTIVE MATERIALS
CERTIFICATE USA/0513/S-96, REVISION 4

East Building, PHH-23
1200 New Jersey Avenue 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. Model No. X.560.
2. Source Description - Cylindrical single encapsulation made of Type 316, 316L, or 304L stainless steel and tungsten inert gas or laser welded. Approximate outer dimensions are 6.6 mm (0.26 in.) in diameter and 10.4 mm (0.41 in.) in length. In some cases there may be a second internal encapsulation constructed of stainless steel, aluminum, or titanium. Construction shall be in accordance with attached AEA Technology QSA Drawing No. R87523, Rev. C.
3. Radioactive Contents - No more than 20 TBq (540 Ci) of either Iridium-192 or Cobalt-60. The Ir-192 and Co-60 are in metallic form.
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 September 30, 2012. On February 28, 2008, this certificate supersedes all previous revisions of USA/0513/S-96.

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 12, 2007 petition by QSA Global, Inc., Burlington, MA, and in consideration of other information on file in this Office.

Certified By:

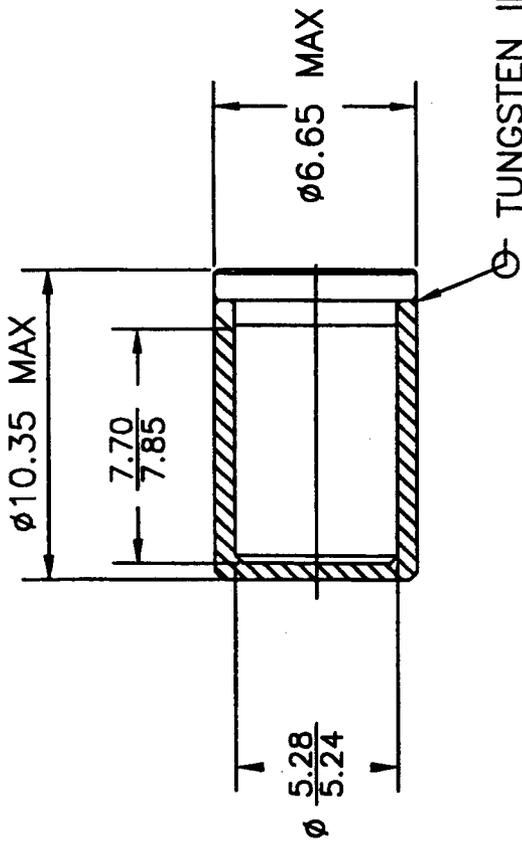


Dec 03 2007

(DATE)

 Robert A. Richard
Deputy Associate Administrator for Hazardous Materials Safety

Revision 4 - Issued to revise the materials of construction.



NOTES:

1. INTERNAL VOID TO BE 0.010 mL OR GREATER.
2. MATERIAL: 316L STAINLESS STEEL OR EQUIVALENT.
3. INNER CAVITY DIMENSIONS MAY VARY. METALLIC SPACERS, SPRINGS AND GUARDS WHICH SECURE AND/OR LOCATE THE RADIOACTIVE MATERIAL OR INNER CAPSULE WITHIN THE CAPSULE MAY BE USED.
4. MINIMUM WALL THICKNESS TO BE 0.45.

APPROVALS	
<i>R. J. [Signature]</i>	14 Oct 06
<i>[Signature]</i>	14 Oct 08
DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE STATED TOLERANCES:	
X ±0.5	INTERNAL $\frac{M}{\Delta}$
X.X ±0.1	EXTERNAL $\frac{M}{\Delta}$
X.XX ±0.05	
ANGULAR ±5°	

 40 NORTH AVE. BURLINGTON, MA 01803		DESCRIPTIVE DRAWING
TITLE		X560 CAPSULE ASSEMBLY
SIZE	DWG. NO.	REV
A	R87523	C
SCALE:		SHEET 1 OF 1
NONE		



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1200 New Jersey Avenue SE
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CERTIFICATE NUMBER: USA/0513/S-96, Revision 4

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