



U.S. Department
of Transportation

Pipeline and
Hazardous Materials
Safety Administration

IAEA CERTIFICATE OF COMPETENT AUTHORITY
SPECIAL FORM RADIOACTIVE MATERIALS
CERTIFICATE USA/0663/S-96, REVISION 3

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 X.1186 (Manufactured on or after November 20, 1990).
2. Source Description - Cylindrical single encapsulation made of Monel K500 with a stainless steel insert and tungsten inert gas or laser seal welded. Approximate outer dimensions are 8.0 mm (0.315 in.) in diameter and 8.0 mm (0.315 in.) in length. Minimum wall thickness is 0.56 mm (0.022 in.). Construction shall be in accordance with attached AEA Technology QSA, Inc. Drawing No. RBA61853, Rev A.
3. Radioactive Contents - No more than 80.0 GBq (2.16 Ci) of Cesium-137. The Cs-137 is in the form of a cesium silicate in a glass matrix or a sulfate as ceramic ion exchange pellets.
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, 2013.

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 October 21, 2008 petition by QSA Global, Inc., Burlington, MA, and in consideration of other information on file in this Office.

Certified By:



Nov 25 2008

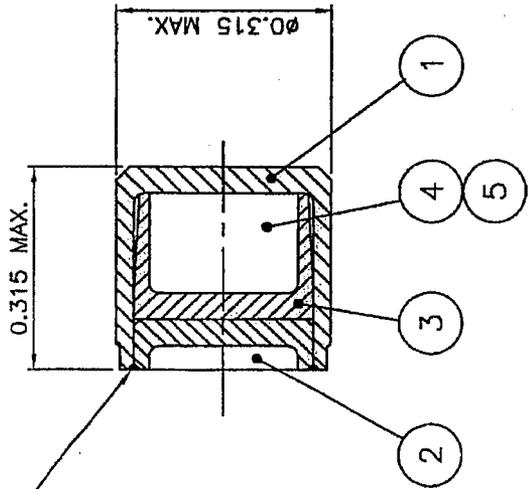
(DATE)

Robert A. Richard

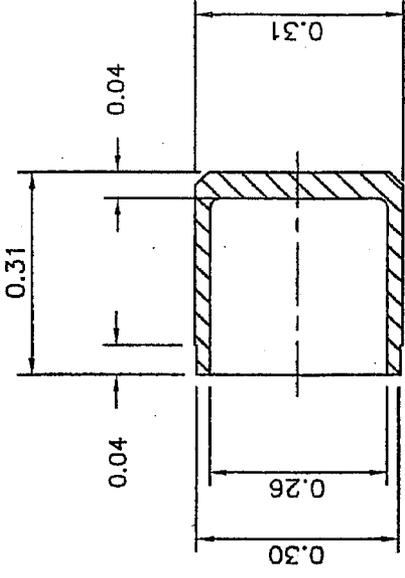
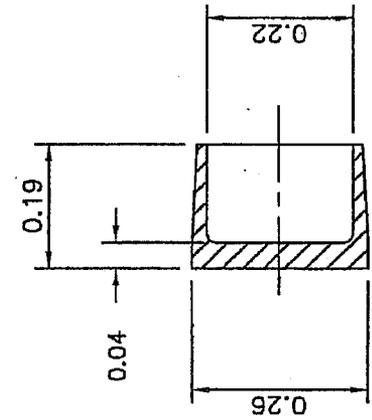
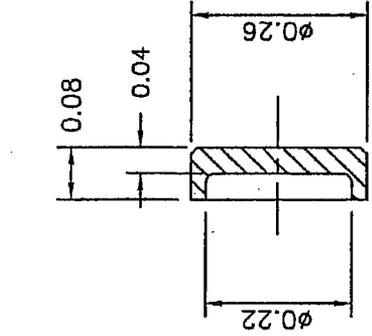
Deputy Associate Administrator for Hazardous Materials Safety

Revision 3 - Issued to extend the expiration date and to update corporate name.

TIG OR LASER
WELD TO SEAL



ITEM NO.	DESCRIPTION	QTY.
1	SHEATH BODY MONEL K500	1
2	SHEATH LID MONEL K500	1
3	SHEATH INSERT STAIN.STL.	1
4	ACTIVE MATERIAL	AR
5	CERAMIC FIBER (OPTIONAL)	AR



ITEM 2

ITEM 3

ITEM 1

APPROVALS	
<i>Robert Munn</i>	17 Nov 03
<i>R. P. ...</i>	21 Nov 03

DIMENSIONS INCHES
UNLESS OTHERWISE STATED TOLERANCES:

X ±0.5
X.X ±0.1
X.XX ±0.05
ANGULAR ±5°

INTERNAL
EXTERNAL



DESCRIPTIVE
DRAWING

TITLE X1186 CAPSULE ASSEMBLY

SIZE	DWG. NO.	SCALE:	SHEET
A	RBA61853	NONE	1 OF 1
REV			
			A

ERF # 719



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