



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

**IAEA CERTIFICATE OF COMPETENT AUTHORITY
SPECIAL FORM RADIOACTIVE MATERIALS
CERTIFICATE USA/0721/S-96, REVISION 4**

East Building, PHH-23
1200 New Jersey Avenue Southeast
Washington, D.C. 20590

This certifies that the sources described have 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. Models X10 and X10/2 (Manufactured on or after June 22, 1977).
2. Source Description - Cylindrical single encapsulations made of stainless steel and tungsten inert gas or laser seal welded. Approximate outer dimensions are 8.1 mm (0.32 in.) in diameter and 5.4 mm (0.21 in.) in length. Minimum wall thickness is 0.2 mm (0.004 in.). Construction shall be in accordance with attached AEA Technology QSA, Inc. Drawing No. RBA11049, Rev. A.
3. Radioactive Contents - No more than 1.85 GBq (50.0 mCi) of either Americium-241 or Curium-244. The Am-241 and Cm-244 are in the form of an oxide incorporated into a ceramic enamel.
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 June 30, 2020.

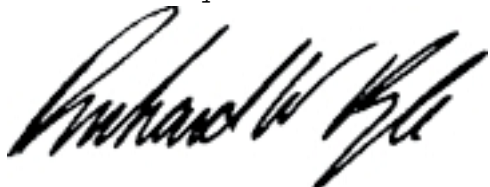
¹ "Regulations for the Safe Transport of Radioactive Material, 1996 Edition (Revised), No. TS-R-1 (ST-1, Revised)," published by the International Atomic Energy Agency (IAEA), Vienna, Austria.

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 June 10, 2015 petition by QSA Global, Inc., Burlington, MA, and in consideration of other information on file in this Office.

Certified By:



Jun 23 2015

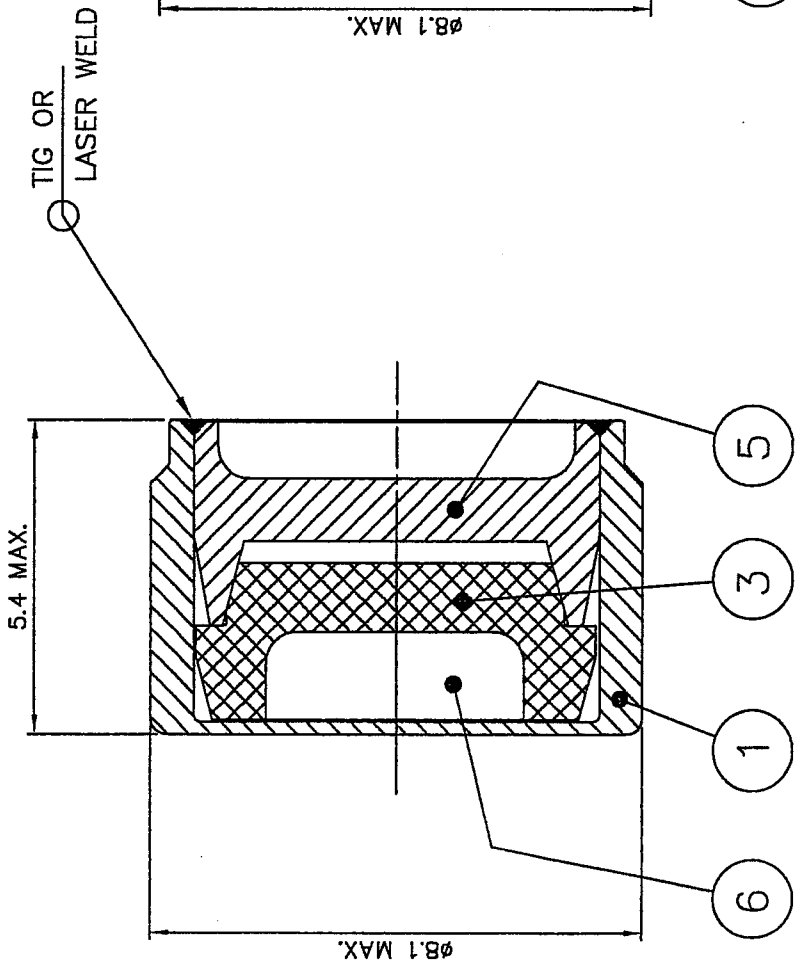
(DATE)

 Dr. Magdy El-Sibaie

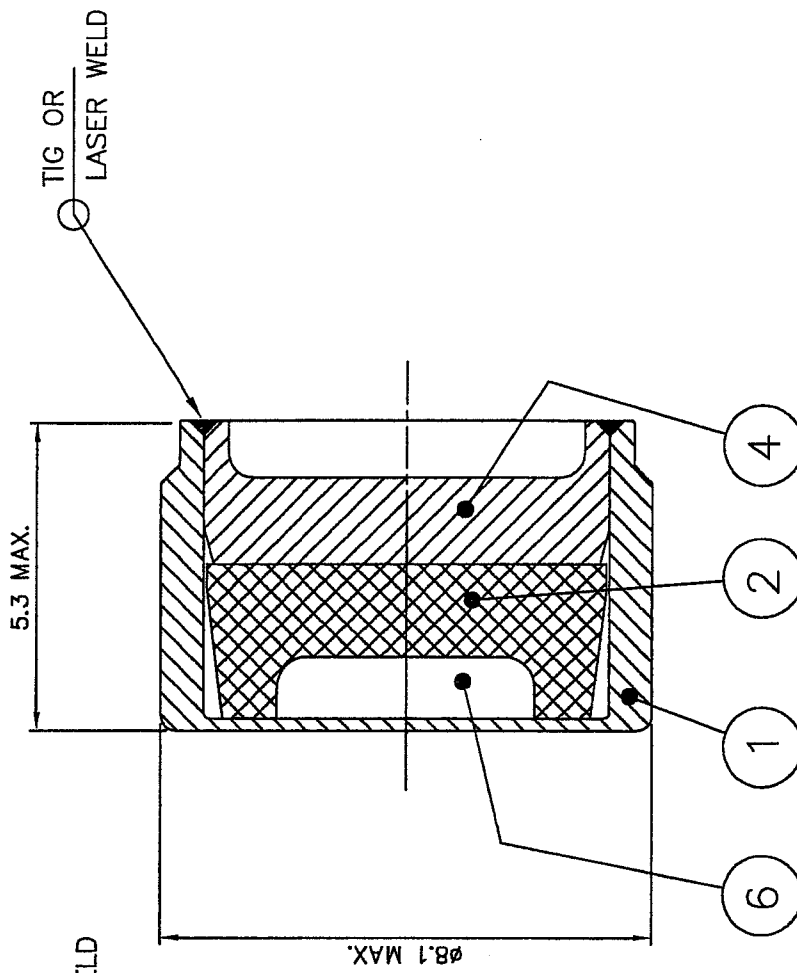
Associate Administrator for Hazardous Materials Safety

Revision 4 - Issued to extend the expiration date.

Item No	Description	No off
1	BODY STAIN.STIL	1
2	X10 INSERT TUNGSTEN	1
3	X10/2 INSERT TUNGSTEN	1
4	X10 LID STAIN.STIL	1
5	X10/2 LID STAIN.STIL	1
6	ACTIVE MATERIAL	A/R



X10/2



X10



DESCRIPTIVE DRAWING

APPROVALS
J.P. ... 3 Nov 07
S.P. ... 3 Nov 07

DIMENSIONS IN MILLIMETERS
 UNLESS OTHERWISE STATED TOLERANCES:
 X ±0.5
 X.X ±0.1
 X.XX ±0.05
 ANGULAR ±5°
 INTERNAL
 EXTERNAL

TITLE X10 & X10/2 CAPSULE ASSEMBLY
 SIZE DWG. NO. RBA11049
 A SCALE: NONE SHEET 1 OF 1
 REV A

ERF # 1178



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