U.S. Department
of Transportation
**Research and
Special Programs
Administration**

400 Seventh St., S.W.
Washington, D.C. 20590

IAEA CERTIFICATE OF COMPETENT AUTHORITY
SPECIAL FORM RADIOACTIVE MATERIALS
CERTIFICATE NUMBER USA/0677/S, REVISION 0

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 materials.

1. Source Identification - AEA Technology QSA, Inc. Model X9032/1 (Manufactured on or after July 17, 1990).

2. Source Description - Cylindrical triple encapsulation made of stainless steel and tungsten inert gas or laser seal welded. Approximate exterior dimensions are 12.6 mm (0.5 in.) in diameter and 40.2 mm (1.58 in.) in length. Minimum wall thickness of the outer encapsulation is 0.4 mm (0.02 in.). Construction shall be in accordance with attached AEA Technology QSA, Inc. Drawing No. RBA62119, Rev. A.

3. Radioactive Contents - No more than 40.0 GBq (1.08 Ci) of either Curium-244 or Plutonium-238. The Cm-244 and Pu-238 are in the form of an oxide powder mixed with Carbon-13 and pressed into a pellet.

4. Quality Assurance - Records of Quality Assurance activities required by Paragraph 310 of the IAEA regulations[1] shall be maintained and made available to the authorized officials for at least three years after the last shipment authorized by this certificate. Consignors and consignees in the United States exporting or importing shipments under this certificate shall satisfy the requirements of Subpart H of 10 CFR 71.

5. Expiration Date - This certificate expires September 30, 2009.

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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.

CERTIFICATE USA/0677/S, REVISION 0

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 petition and information dated July 7, 2004 submitted by AEA Technology QSA, Inc., Burlington, MA, and in consideration of other information on file in this Office.

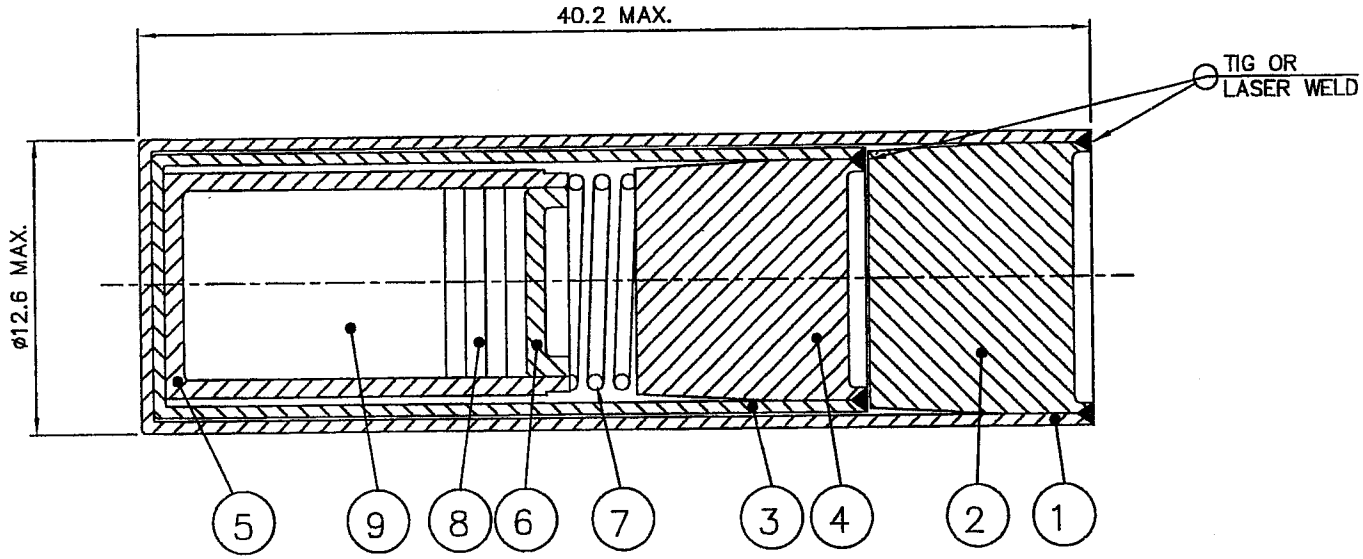
Certified by:

Robert A. McGuire
Associate Administrator for
Hazardous Materials Safety

SEP 14 2004
(DATE)

Revision 0 - Original issue.

ITEM	DESCRIPTION		QTY
1	OUTER SHEATH BODY	STAIN. STL.	1
2	OUTER SHEATH LID	STAIN. STL.	1
3	INNER SHEATH BODY	STAIN. STL.	1
4	INNER SHEATH LID	STAIN. STL.	1
5	CELL BODY	STAIN. STL.	1
6	CELL LID	STAIN. STL.	1
7	SPRING	STAIN. STL.	1
8	CERAMIC FIBRE		A/R
9	ACTIVE MATERIAL		A/R



APPROVALS	
R. [illegible]	6 JUN 04
L. [illegible]	6 Jul 04

DIMENSIONS IN MILLIMETERES
UNLESS OTHERWISE STATED TOLERANCES:

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

INTERNAL N7
EXTERNAL N6

AEATECHNOLOGY
QSA
40 NORTH AVE, BURLINGTON, MA 01803

DESCRIPTIVE DRAWING

TITLE X9032/1 CAPSULE ASSEMBLY

SIZE A | DWG. NO. RBA62119 | REV A

SCALE: NONE | SHEET 1 OF 1

ERF # 860