



U.S. Department
of Transportation

Pipeline and
Hazardous Materials
Safety Administration

IAEA CERTIFICATE OF COMPETENT AUTHORITY
SPECIAL FORM RADIOACTIVE MATERIALS

CERTIFICATE USA/0419/S, REVISION 7

East Building, PHH-23
1200 New Jersey Ave, 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 - 3M Model 4P6E source capsules manufactured prior to August 3, 1989.
2. Source Description - Cylindrical double encapsulation constructed of Type 304 stainless steel and tungsten inert gas welded. Approximate outer dimensions are 7.1 mm (0.28 in.) in diameter and 19.1 mm (0.75 in.) in length. Construction shall be in accordance with attached 3M Company Drawing No. 12-1921-0683-4.
3. Radioactive Contents - No more than 74.0 GBq (2.0 Ci) of Cesium-137 in the form of ceramic microspheres.
4. Management System Activities - Records of Management System activities required by Paragraph 306 of the IAEA regulations 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 requirements of Subpart H of 10 CFR 71.
5. Expiration Date - This certificate expires on May 1, 2030. Previous editions which have not reached their expiration date may continue to be used.

¹ "Regulations for the Safe Transport of Radioactive Material, 2018 Edition, No. SSR-6 (Rev. 1)" 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(s) 804 of the IAEA Regulations and Section 173.476 of Title 49 of the Code of Federal Regulations, in response to the March 29, 2025 petition by J.L. Shepherd & Associates, San Fernando, CA, and in consideration of other information on file in this Office.

Certified By:



April 08, 2025

(DATE)

 William Schoonover
Associate Administrator for Hazardous
Materials Safety

Revision 7 - Issued to upgrade to 2018 edition of IAEA Regulations for the Safe Transport of Radioactive Materials, SSR-6 (Rev. 1) and to extend the expiration date.

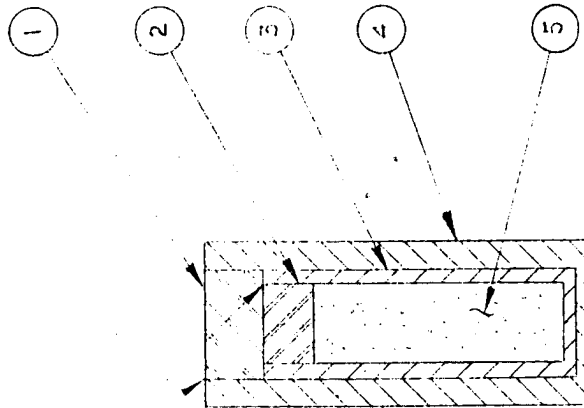


FIG 1

ENGRAVE AS REQD

ITEM	QTY	PART NO.	DESCRIPTION
1	1	B-12-1921-3489-3	OUTER PLUG
2	1	B-12-1921-3490-1	INNER PLUG
3	1	B-12-1921-3522-1	INNER CAPSULE
4	1	B-12-1921-3523-3	OUTER CAPSULE
5	AR		ZM BRAND RADIATING MICROSPHERES CONTAINING Cs-137 ISOTOPE

USED ON

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TOLERANCE AND SURFACE ROUGHNESS UNLESS NOTED	
PLACES IN DIMENSION	MAXIMUM SURFACE ROUGHNESS
OPERATION	.00 .000
MACHINING	±.1 ±.02 ±.003
CUT-OFF (SAW, BURN, SHEAR)	±.1 ±.04
WELDING	±.1 ±.06
ANGULAR DIM.	±
SCALE	4X

3M

Engineering Division / 3M St. Paul, Minnesota 55101

DR. CHUCK ZENDER

CH. DRAKE

APP. *A. Schmitt*

F

NOV 2, 82

ECO 82-0080

DRAWN FROM B-683 REV 5

ISSUE

ISSUE DATE AND CHANGE RECORD

REV.

CHG.

TITLE

ASSEMBLY

VOLUME SOURCE

4PGE

PART NO.

12-1921-0683-4

B



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Transportation

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Hazardous Materials
Safety Administration**

East Building, PHH-23
1200 New Jersey Ave, SE
Washington, D.C. 20590

CERTIFICATE NUMBER: USA/0419/S-96

ORIGINAL REGISTRANT(S) :

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