



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

**IAEA CERTIFICATE OF COMPETENT AUTHORITY
SPECIAL FORM RADIOACTIVE MATERIALS
CERTIFICATE USA/0077/S-96, REVISION 9**

East Building, PHH-23
1200 New Jersey Avenue Southeast
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 4F6S.
2. Source Description - Cylindrical double encapsulation constructed of Type 304 stainless steel and seal welded. Approximate outer dimensions are 12.7 mm (0.5 in.) in diameter and 19.05 mm (0.75 in.) in length. Construction shall be in accordance with attached 3M Company Drawing No. 1921-897.
3. Radioactive Contents - No more than 0.14 TBq (4.0 Ci) of Cesium-137 in the form of 3M Brand Radiating Ceramic Microspheres.
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 October 31, 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.

CERTIFICATE USA/0077/S-96, REVISION 9

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 06, 2015 petition by J.L. Shepherd & Associates, San Fernando, CA, and in consideration of other information on file in this Office.

Certified By:



Dr. Magdy El-Sibaie
Associate Administrator for Hazardous Materials Safety

Oct 16 2015
(DATE)

Revision 9 - Issued to extend the expiration date.

INNER CAPSULE
B-1921-2334

OUTER CAPSULE
B-1921-2336

INNER PLUG
B-1921-2331

OUTER PLUG
B-1921-2332

WELD ALL AROUND

LABEL DATA ENGRAVE PER
LABEL SPEC # 85-27.45

3M BRAND
RADIATING MICROSPHERES
MODEL 4F65 CONTAINS
CS-137 ISOTOPE
MODEL 4F3D CONTAINS
CO-60 ISOTOPE



USED ON

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the authorized purpose.

OPERATION	PLACES IN DRAWING		MATERIAL	REMARKS
	1	2		
WELDING	1	2	WELDED	✓
DRILLING	1	2	DRILLED	
TURNING	1	2	TURNT	
GRINDING	1	2	GRIND	
FINISHING	1	2	FINISH	
INSPECTION	1	2	INSPECT	
SCALE	2/1			

DESIGNED BY G. PRESTON

DATE 10/20/74

APP. J. J. J.

B

NOV 17 76 JAN 03 87
REDRAWN

ISSUE DATE AND CHANGE RECORD

TYPE

ASSY VOLUME SOURCE
MODEL NO. 4F65-
4F3D

PART NO.

1921-897



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of Transportation

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1200 New Jersey Avenue SE
Washington, D.C. 20590

**Pipeline and
Hazardous Materials
Safety Administration**

CERTIFICATE NUMBER: USA/0077/S-96, Revision 9

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