



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

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

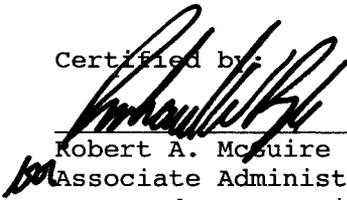
**IAEA CERTIFICATE OF COMPETENT AUTHORITY  
SPECIAL FORM RADIOACTIVE MATERIALS  
CERTIFICATE NUMBER USA/0071/S, REVISION 6**

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<sup>1</sup> and the United States of America<sup>2</sup> for the transport of radioactive materials.

1. Source Identification - 3M Model 4D6L capsules manufactured prior to August 3, 1989.
2. Source Description - Cylindrical double encapsulation made of Type 304 stainless steel and inert gas seal welded. Approximate exterior dimensions are 12.7 mm (0.5 in.) in diameter and 38.1 mm (1.5 in.) in length. Construction shall have been in accordance with attached 3M Drawing No. 12-1921-0737-8.
3. Radioactive Contents - No more than 0.37 TBq (10 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 regulations<sup>1</sup> 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 June 30, 2008.

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 June 12, 2003 submitted by RONAN Engineering Co., Florence, KY, and in consideration of other information on file in this Office.

Certified by:

  
Robert A. McGuire  
Associate Administrator for  
Hazardous Materials Safety

JUN 27 2003

\_\_\_\_\_  
(DATE)

Revision 6 - Issued to extend the expiration date.

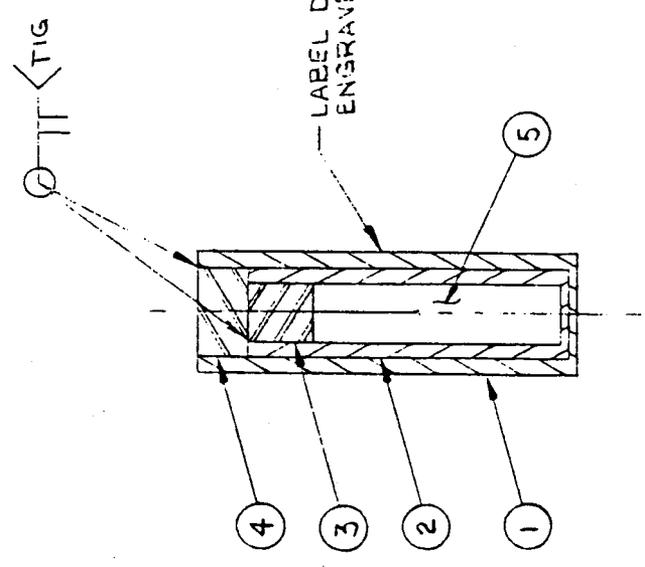
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1 "Regulations for the Safe Transport of Radioactive Material, 1996 Edition (Revised), No. TS-R-1 (ST-1, Revised)," published by the International Atomic Energy Agency (IAEA), Vienna, Austria.

2 Title 49, Code of Federal Regulations, Parts 100 - 199, United States of America.

09/11

USA/0011/5

ITEM	QTY	PART NO.	DESCRIPTION
1	1	B-12-1921-3487-7	OUTER CAPSULE
2	1	B-12-1921-3488-5	INNER CAPSULE
3	1	B-12-1921-2331-8	INNER PLUG
4	1	B-12-1921-2332-6	OUTER PLUG
5	AR		3M BRAND RADIATING MICROSPHERES CONTAINING ISOTOPE Cs-137



**USED ON**

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OPERATION	PLACES IN DIMENSION			MATERIAL SPECIFICATION	REMARKS
	.00	.000	.008		
MACHINING	±.1	±.08	±.008		Engineering Division/3M St Paul, Minnesota 55101
CUT OFF (SAW, BURR, SHARP)	±.1	±.04			
WELDING	±	±	±		DR. CHUCK ZENDER
ANGULAR DIM	±				
SCALE	2X				

F	OCT 27, 82	REV.
	ECO B2-0380	
	REDRAWN FROM	
	H 2-321-0737-2 G	
ISSUE	ISSUE DATE AND CHANGE RECORD	
TITLE	ASSEMBLY	
	VOLUME SOURCE	
	4D6L	

PART NO. 12-1921-0737-8