



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

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

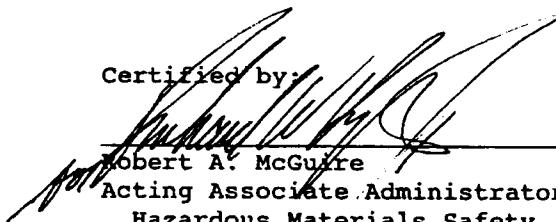
**IAEA CERTIFICATE OF COMPETENT AUTHORITY
SPECIAL FORM RADIOACTIVE MATERIALS
CERTIFICATE NUMBER USA/0420/S, REVISION 2**

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 materials.

1. Source Identification - 3M Model 4P6M source capsules manufactured prior to August 3, 1989.
2. Source Description - The source described by this certificate is a tungsten inert gas welded, double encapsulation constructed of Type 304 stainless steel measuring 7.1mm (0.28") in diameter x 13.2mm (0.52") in length. All capsules shall have been constructed in accordance with 3M Company drawing number 12-1921-0841-8 (attached).
3. Radioactive Contents - This source consists of not more than 37 GBq (1 Ci) of Cs-137 in the form of ceramic microspheres.
4. Quality Assurance - Records of Quality Assurance activities required by Paragraph 209 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 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 January 31, 2005.

This certificate is issued in accordance with paragraph 703 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 September 23, 1999 submitted by Halliburton, Houston, TX, and in consideration of other information on file in this Office.

Certified by:


Robert A. McGuire
Acting Associate Administrator for
Hazardous Materials Safety

JAN 21 2000

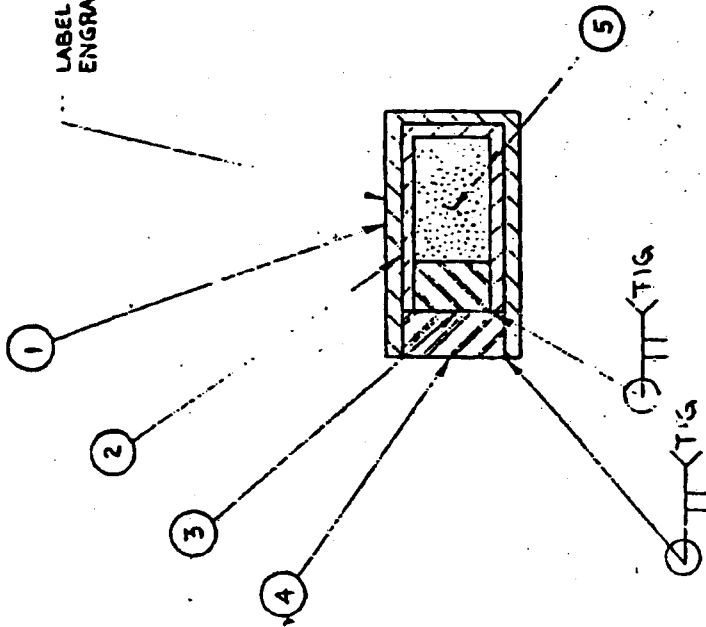
(DATE)

Revision 2 - Issued to extend the expiration date, and to update the certificate to the 1985 IAEA regulations.

1 "Safety Series No. 6, Regulations for the Safe Transport of Radioactive Materials, 1985 Edition, as amended 1990", published by the International Atomic Energy Agency (IAEA), Vienna, Austria.

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

LABEL DATA
ENGRAVE AS REQUIRED



ITEM QTY	PART NO.	DESCRIPTION
1	B-12-1921-2239-3	CAPSULE, OUTER
2	B-12-1921-2238-5	CAPSULE, INNER
3	B-12-1921-2236-9	PLUG, INNER
4	B-12-1921-2237-7	PLUG, OUTER
5	AR	3M BRAND RADIATING MICROSPHERES CONTAINING Cs-137 ISOTOPE

USED ON

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PLACES TO ENGRAVE		DATE
OPERATION	BY	
INSPECTION	BY	
TESTING	BY	
REWORK	BY	
APPROVAL	BY	
SCALE	BY	
DESIGNED BY R K MYRAN		
CHECKED BY		
APPROVED BY		
DATE		

DATE	DESCRIPTION	BY	CHK
OCT 27, 82	ECO 82-0080		
	UPDATE ADD B/M		
MAR 12, 80	ECO 80-0081		
	ADDED 501-1000 TO TITLE		
MAY 10, 76	ME 316 675		
	WAS 2230 WAS 2229		
	WAS 2227 WAS 2228		
APR 7, 76	ME 316 3 778		
	ISSUE DATE AND CHANGE RECORD		

VOLUME SOURCE
MODEL 4P6M
501-1000 MCI

PART NO.
12-1921-0841-8