



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

**IAEA CERTIFICATE OF COMPETENT AUTHORITY
SPECIAL FORM RADIOACTIVE MATERIALS
CERTIFICATE USA/0071/S-96, REVISION 8**

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 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 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 September 30, 2018.

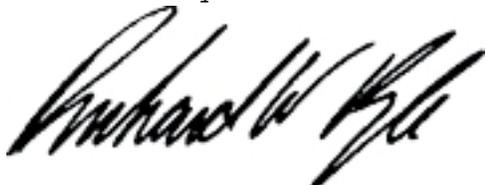
¹ "Regulations for the Safe Transport of Radioactive Material, 1996 Edition (Revised), No. TS-R-1 (ST-1, Revised)," published by the International Atomic Energy Agency (IAEA), Vienna, Austria.

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

CERTIFICATE USA/0071/S-96, REVISION 8

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 September 11, 2013 petition by Ronan Engineering Company, Florence, KY, and in consideration of other information on file in this Office.

Certified By:

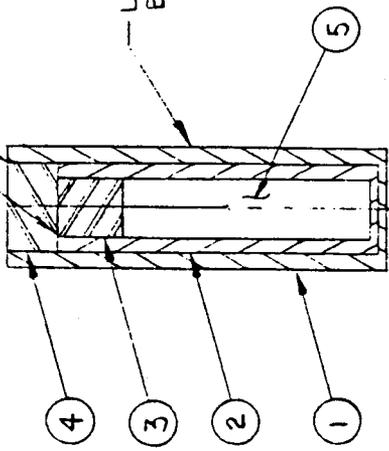


Sep 27 2013
(DATE)

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

Revision 8 - Issued to extend the expiration date.

④ TIG



LABEL DATA
ENGRAVE AS REQUIRED

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		MAXIMUM SURFACE ROUGHNESS
	.00	.000	
MACHINING	±.1	±.08	±.008
CUT OFF (SAW, BURR, SHEAR)	±.1	±.04	///
WELDING	±	±	±
ANGULAR DIM	±.1	±.08	DRL CHUCK ZENDER
SCALE	±	±	CHL

F	OCT 27, 82	#1
	ECO B2-0380	
	REDRAWN FROM	
	H 2-3321-0737-2 G	
ISSUE	ISSUE DATE AND CHANGE RECORD	
REV.		

TITLE	ASSEMBLY
	VOLUME SOURCE
	4D6L
PART NO.	12-1921-0737-8

SCALE	2X
APP.	B



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**Pipeline and
Hazardous Materials
Safety Administration**

CERTIFICATE NUMBER: USA/0071/S-96, Revision 8

ORIGINAL REGISTRANT(S):

Craig Caris
RSO
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REGISTERED USER(S):

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Mr. Maurits Hartog
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