



U.S. Department
of Transportation

Pipeline and
Hazardous Materials
Safety Administration

IAEA CERTIFICATE OF COMPETENT AUTHORITY
SPECIAL FORM RADIOACTIVE MATERIALS

CERTIFICATE USA/0066/S-96, REVISION 10

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 4F6H.
2. Source Description - Cylindrical double encapsulation constructed of K Monel nickel alloy. Approximate outer dimensions are 9.52 mm (0.375 in.) in diameter and 30.1 mm (1.186 in.) in length. Construction shall be in accordance with attached 3M Drawing Nos. 12-1921-2591-7 or 12-1921-2592-5.
3. Radioactive Contents - No more than 0.15 TBq (4 Ci) of Cesium-137 in the form of 3M Brand 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 April 30, 2029. Previous editions which have not reached their expiration date may continue to be used.

¹ "Regulations for the Safe Transport of Radioactive Material, 2012 Edition, No. SSR-6" 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 April 8, 2024 petition by J.L. Shepherd & Associates, San Fernando, CA, and in consideration of other information on file in this Office.

Certified By:



 William Schoonover
Associate Administrator for Hazardous
Materials Safety

April 30, 2024

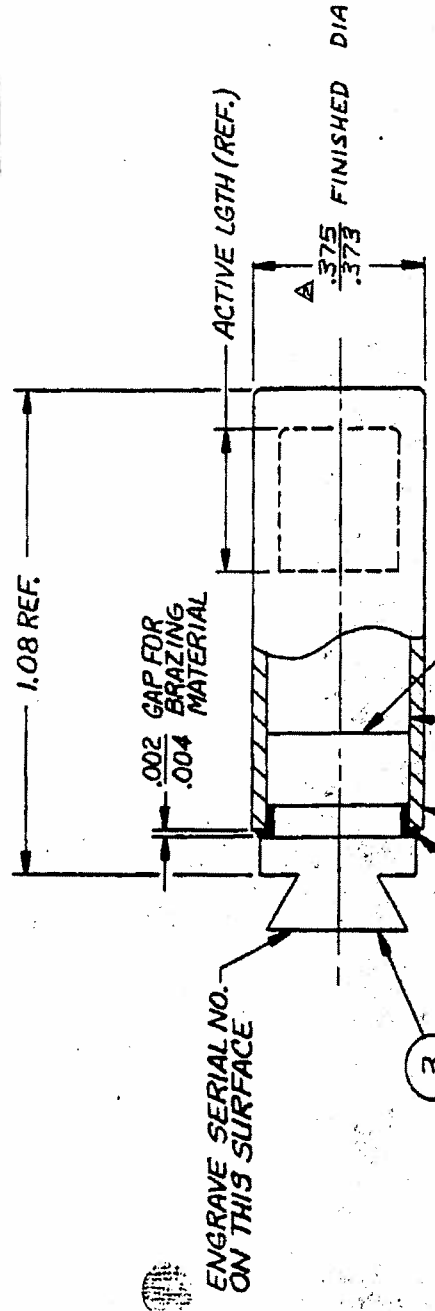
(DATE)

Revision 10 - Issued to extend the expiration date.

ITEM	PART NUMBER	QTY.	DESCRIPTION
1	B-12-1921-2593-3	1	CAPSULE, OUT
2	B-12-1921-2597-4	1	ASSY, INNER C
3	B-12-1921-2595-8	1	PLUG, OUTER
4	B-12-1921-3071-9	1	ASSY, WELDED INNER CAPSULE

SEE NOTE

SEE NOTE



ENGRAVE SERIAL NO.
ON THIS SURFACE

PLUG MUST SET FIRMLY
ON INNER CAPSULE

SILVER
BRAZE
ALLSTATE #155 Δ

2 4 SEE NOTE

USED ON

3M COMPANY 18-72
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OPERATION	TOLERANCE AND SURFACE ROUGHNESS UNLESS NOTED	PLACES IN DESIGNATION
MACHINING	.001	.001
WELDING	.001	.001
ANGULAR INT.	.001	.001
SCALE	4/1	

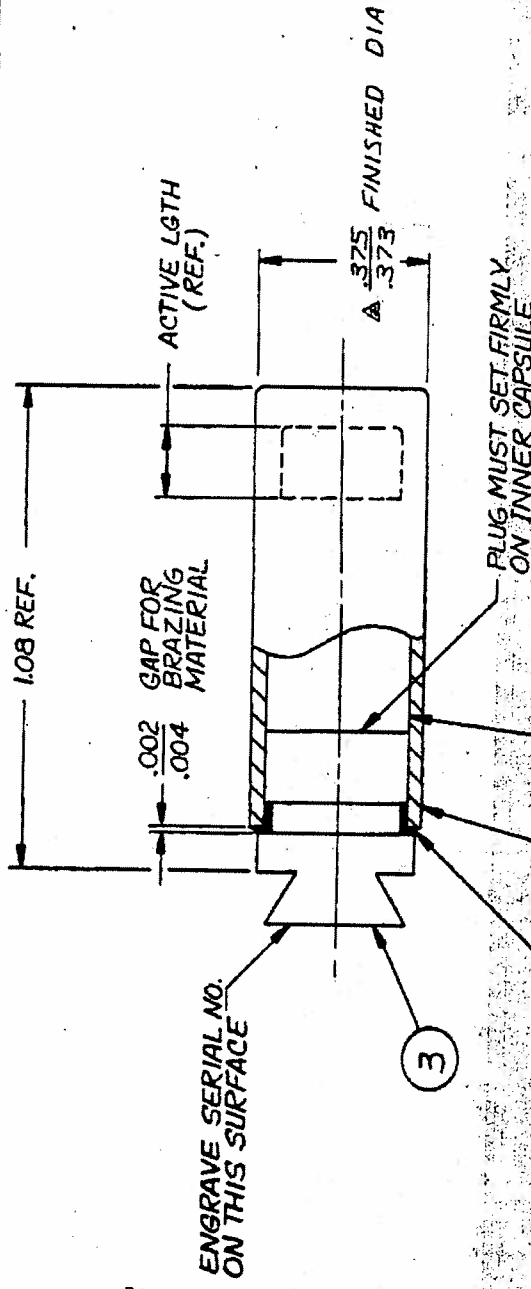
Δ NOTE:

1. USE ITEM 2 IN PLACE OF ITEM 4 ONLY WHEN SPECIFIED.

ISSUE	DATE	DESCRIPTION	REV.	CHK.
C	AUG 18 81	ECO # 81-0064		
B	OCT 13 80	ECO # 80-0186		
A	JUNE 11 79	ECO # 79-0047		
		REDRAWN FROM 1921-1300		
		ISSUE DATE AND CHANGE RECORD		
		TITLE		
		ASSY SOURCE, MODEL 4FGH, .30 ACT. LGTH		
		PART NO. 12-1921-2591-7		

3M COMPANY	ST. PAUL, MINNESOTA
DESIGNED BY	J.B. WYANDT
CHECKED BY	CH. F. HAYES
APPROVED BY	APR. H. STEIN

ITEM	PART NUMBER	QTY.	DESCRIPTION
1	B-12-1921-2593-3	1	CAPSULE, OUT
2	B-12-1921-2598-2	1	ASS'Y, INNER CAPSULE, .15
3	B-12-1921-2595-B	1	PLUG, OUTER
4	B-12-1921-3069-3	1	ASS'Y WELDED INNER CAPSULE



USED ON

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OPERATION	PLACES IN DRAWING	NOTES
MACHINING	1, 2, 3, 4	✓
WELDING	1, 2, 3, 4	✓
ANNEALING	1, 2, 3, 4	✓
SCALE	4/1	

NOTE:
1. USE ITEM 2 IN PLACE OF ITEM 4.
ONLY WHEN SPECIFIED.

ISSUE	TITLE	DATE	BY	CHK
C	AUG 18, 01	ECO # 81-0064		
B	OCT 13, 80	ECO # 80-0180		
A	JUNE 11, 79	ECO # 79-0047		
		REDRAWN FROM 1921-1300		
		ISSUE DATE AND CHANGE RECORD		

ASS'Y, SOURCE,
MODEL 4FGH,
.15 ACT. LGTH

PART NO. 12-1921-2592-5



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

CERTIFICATE NUMBER: USA/0066/S-96

ORIGINAL REGISTRANT(S) :

J.L. Shepherd & Associates
1010 Arroyo Ave.
San Fernando, CA, 91340-1822
USA