



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/0427/S, REVISION 3**

This certifies that the sources described have 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 - CIS-US, Inc. Models 772 and 774 Source Capsules.
2. Source Description - Model 772 is a singly encapsulated source capsule constructed of either AISI Type 316 or 316L stainless steel with maximum external dimensions of 1.18 mm (0.05") in diameter x 6.0 mm (0.24") in length. Model 774 is a singly encapsulated source capsule constructed of either AISI Type 316L or DIN 8556 Type 1.4404 stainless steel with maximum external dimensions of 1.18 mm (0.05") in diameter x 5.25 mm (0.21") in length. Both source capsules are welded to a source cable. Construction must be in accordance with the attached CIS-US, Inc. drawing numbers 77200, Rev. 5 and 77400, Rev. 4.
3. Radioactive Contents - These sources consist of not more than 0.74 TBq (20 Ci) of Ir-192 as solid metal.
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 March 31, 2005.

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.

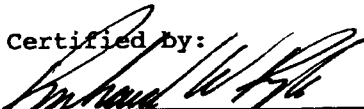
² Title 49, Code of Federal Regulations, Parts 100 - 199, United States of America.

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CERTIFICATE USA/0427/S, REVISION 3

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 November 16, 1999, February 4, 2000 and February 15, 2000 submitted by CIS-US, Inc., Bedford, MA, and in consideration of other information on file in this Office.

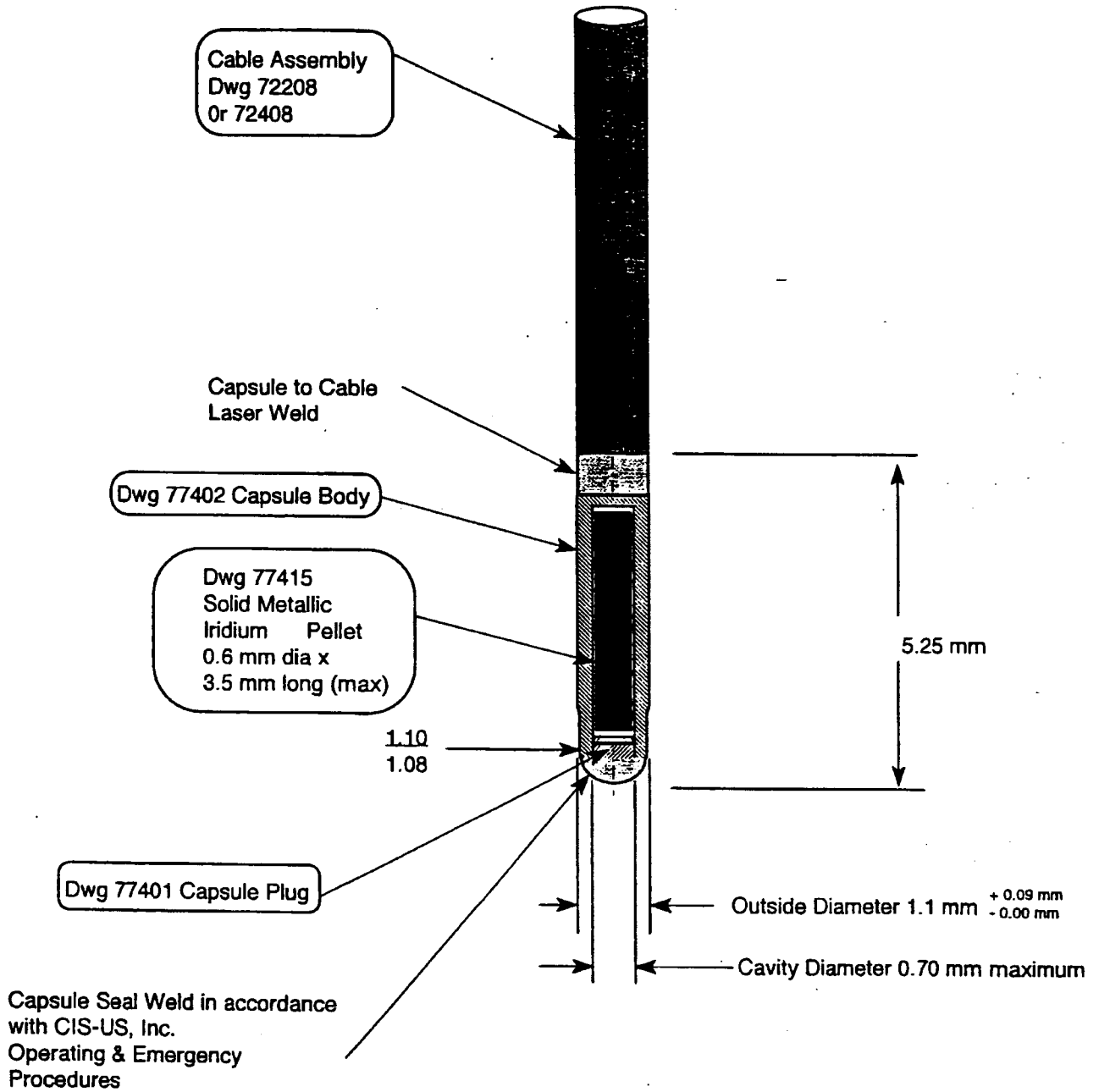
Certified by:



Robert A. McGuire
Acting Associate Administrator for
Hazardous Materials Safety

MAR 23 2000

(DATE)



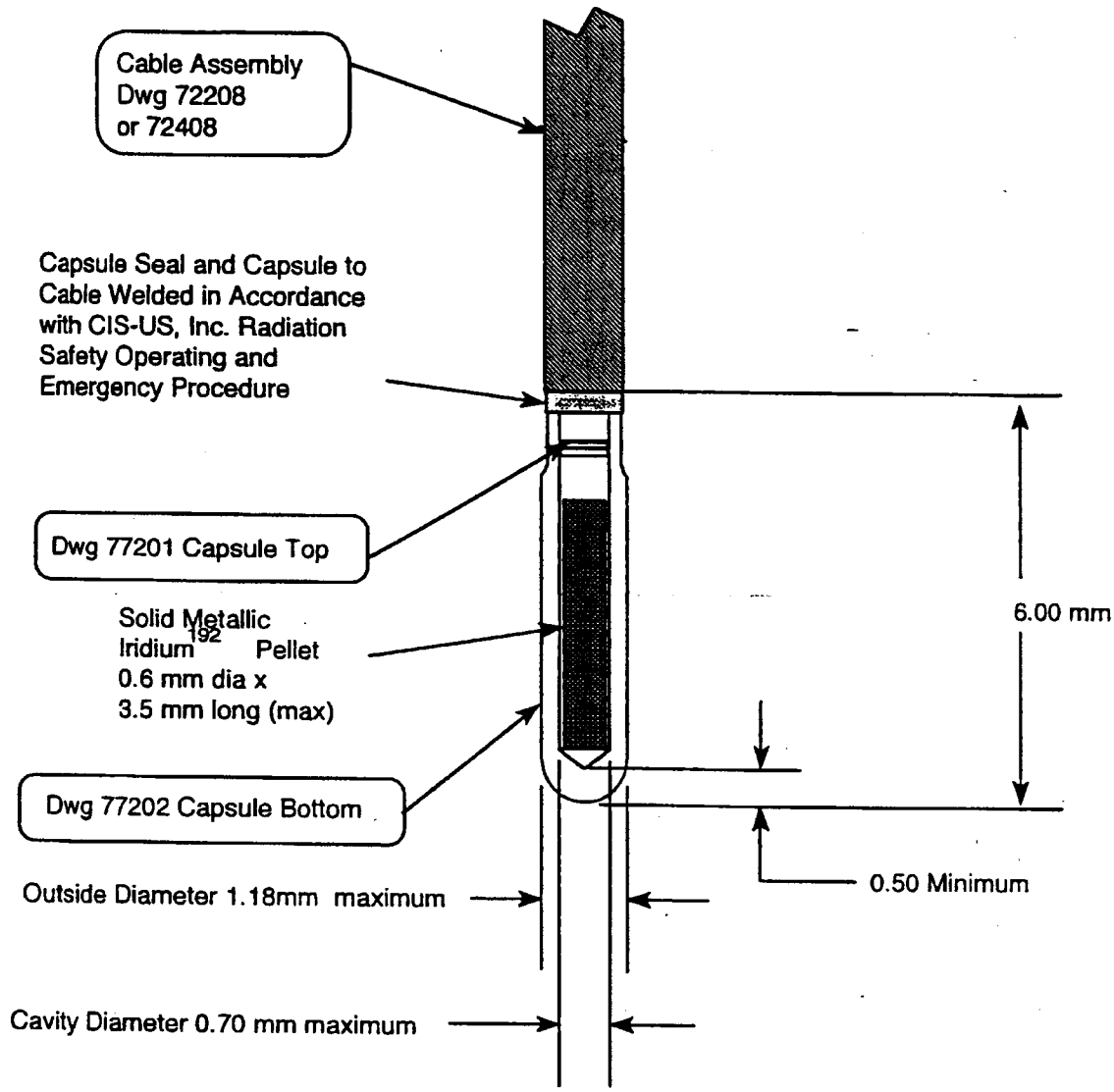
CIS-US, Inc.

Subsidiary of CIS bio international

35 Flagship Drive, North Andover, MA, 01845, USA Tel: 508-683-5211; Fax: 508-683-944



Material	Noted	Unless otherwise specified, tolerances shall be:	Capsule Assembly
Finish	1 μ m		
Drawn by	ALH	X : ± 1	77400
Checked	<i>[Signature]</i>	X.X : ± 0.1	
Approved	<i>[Signature]</i> 10/16/99	X.XX : ± 0.01	
Scale	10:1	X.XXX : ± 0.005 Angles : $\pm 0.5^\circ$	
			4



Notes:

1. All dimensions are in millimeters
2. Welding capsule to Cable Assy □Dwg 72208:
Welding Voltage: 35 - 36 Volts
Gas (80% Argon, 20% Carbon Dioxide)
Gas Flow: 30 - 40 SCFH
3. Welding capsule to Cable Assembly Dwg 72408: Welding Voltage: 33 - 34 Volts
Gas (80% Argon, 20% Carbon Dioxide)
Gas Flow: 30 - 40 SCFH

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Material	Noted	Unless otherwise specified, tolerances shall be:	Source Capsule Assembly	
Finish	See Detail			
Drawn by:	ALH			
Mgr. Appvl.	<i>[Signature]</i>	X : ± 1	77200	5
RA/QA	<i>[Signature]</i>	X.X : ± 0.1		
Scale	10:1	X.XX : ± 0.01		
		X.XXX : ± 0.005		
		Angles : ± 0.5°		