



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

**IAEA CERTIFICATE OF COMPETENT AUTHORITY  
SPECIAL FORM RADIOACTIVE MATERIALS  
CERTIFICATE USA/0393/S-96, REVISION 4**

400 Seventh Street, S.W.  
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 Agency<sup>1</sup> and the United States of America<sup>2</sup> for the transport of radioactive material.

1. Source Identification - Industrial Nuclear Company, Inc. (formerly CIS-US, Inc.) Model 791.
2. Source Description - Cylindrical single encapsulation constructed of Type 316 or Type 316L stainless steel and heliarc seal welded. Approximate outer dimensions are 5.0 mm (0.197 in.) in diameter and 7.6 mm (0.299 in.) in length. Construction shall be in accordance with attached Industrial Nuclear Co., Inc. Drawing No. 79100, Rev. 5.
3. Radioactive Contents - No more than 8.88 TBq (240.0 Ci) of Iridium-192. The Ir-192 is in solid metallic form.
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 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 January 31, 2012.

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<sup>1</sup> "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.

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

**CERTIFICATE USA/0393/S-96, REVISION 4**

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 December 20, 2006 petition by Industrial Nuclear Company, Inc., North Andover, MA, and in consideration of other information on file in this Office.

Certified By:



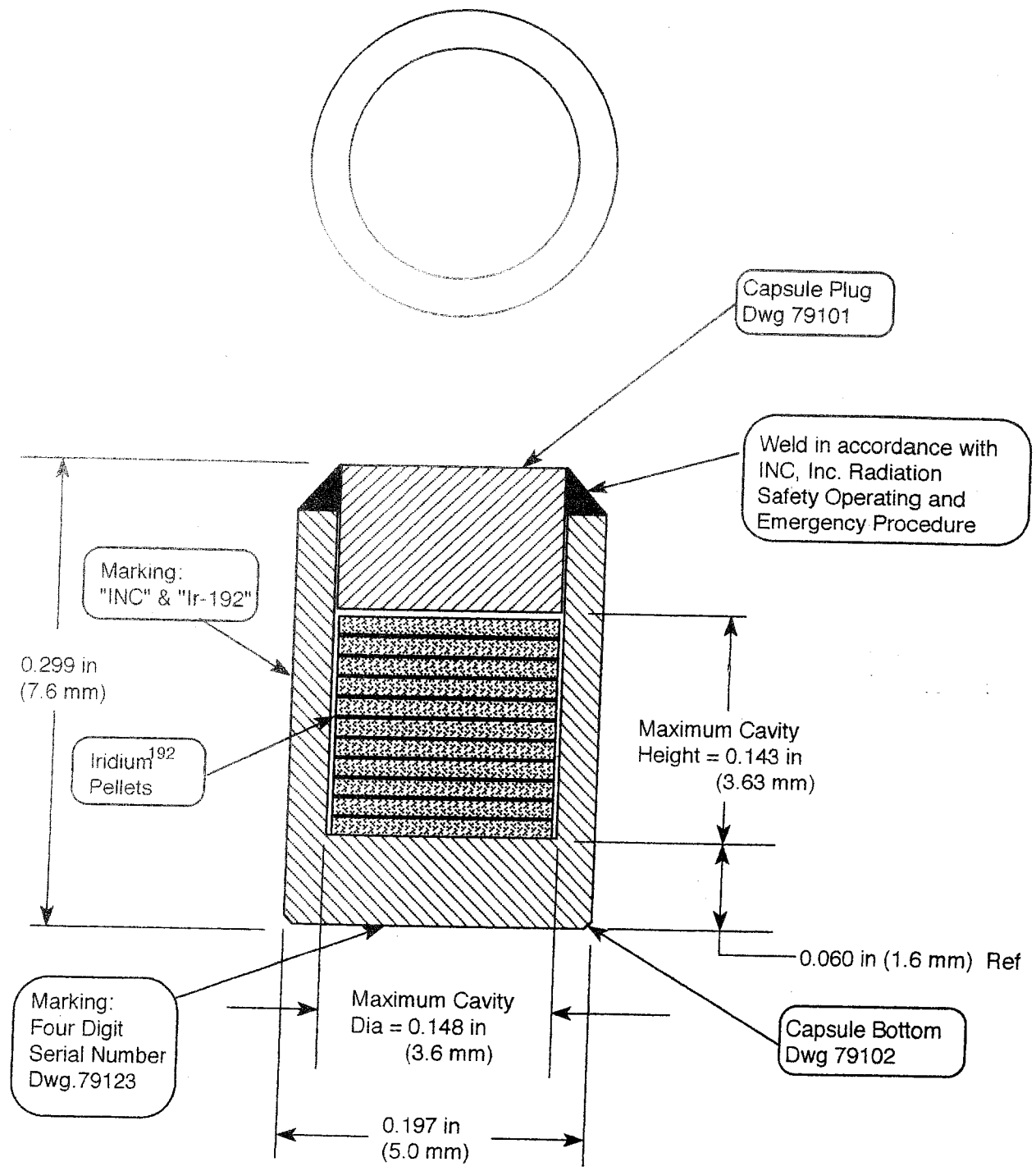
**Jan 19 2007**

(DATE)

Bob Richard

Deputy Associate Administrator for Hazardous Materials Safety

Revision 4 - Issued to extend the expiration date and update corporate name.



**Industrial Nuclear Co., Inc.**  
 35 Flagship Drive, North Andover, MA., 01845

Material	Noted	Unless otherwise specified, tolerances shall be: X : ± 1 X.X : ± 0.1 X.XX : ± 0.01 X.XXX : ± 0.005 Angles : ± 0.5°	<b>Source          Capsule          Assembly</b>	
Finish	See detail			
Drawn by:	JMunro		No. <b>79100</b>	Rev. <b>5</b>
Mgr.Appvl.	<i>ADJ</i>			
RA/QA	<i>GJB</i>			
Scale	10:1			