



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

**IAEA CERTIFICATE OF COMPETENT AUTHORITY  
SPECIAL FORM RADIOACTIVE MATERIALS  
CERTIFICATE USA/0707/S-96, REVISION 5**

East Building, PHH-23  
1200 New Jersey Avenue Southeast  
Washington, D.C. 20590

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 Agency<sup>1</sup> and the United States of America<sup>2</sup> for the transport of radioactive material.

1. Source Identification - International Isotopes Inc. Model INIS-SF-X.X-YY-Z Series Capsules, Where X.X indicates diameter in centimeters rounded to the nearest decimal place, YY indicates length in centimeters, and Z indicates the principal use code.
2. Source Description - Cylindrical double encapsulations made of either Type 304, Type 304L, Type 316, or Type 316L stainless steel and tungsten inert gas seal welded. Approximate exterior dimensions are 0.95 cm (0.375 in.) to 3.18 cm (1.25 in.) in diameter and 0.95 cm (0.375 in.) to 20.32 cm (8.0 in.) in length. Construction shall be in accordance with attached International Isotopes Inc. Drawing Nos. INIS-DWG-0001, Rev. C or INIS-DWG-0002, Rev. C.
3. Radioactive Contents - No more than 555 TBq (15,000 Ci) of Cobalt-60. The Co-60 is in the form of a solid metal or nickel alloy (plated).
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, 2020. On September 30, 2015, this certificate supersedes all previous revisions of USA/0707/S-96.

---

<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/0707/S-96, REVISION 5**

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 May 21, 2015 petition by International Isotopes Inc., Idaho Falls, ID, and in consideration of other information on file in this Office.

Certified By:



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

**Jun 23 2015**  
(DATE)

Revision 5 - Issued to revise the authorized radioactive contents.

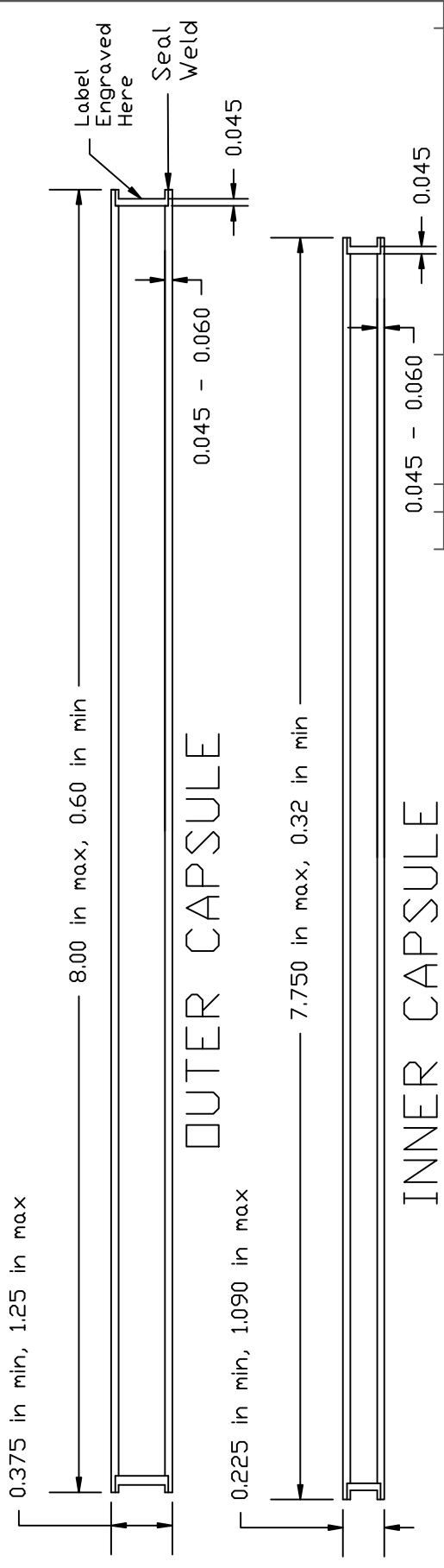
REVISIONS			
LTR.	DESCRIPTION	BY	DATE
A	Add Dimensions & Material	DL	2-3-05
B	Add 304L, 316 & 316L alloys	DL	9-1-06
C	Add Wall Range	KH	12-15-11

All dimensions in inches

All components fabricated from 304, 304L, 316 or 316L SST.

Caps and capsule bodies shall be fabricated from the same alloy

Fusion seal weld on the full circumference of all end caps



Typical Labeling

ITEM NO.	DWG. I. SIZE	PART OR IDENTIFYING NO.	DESCRIPTION	QTY																								
<table border="0"> <tr> <td rowspan="2"> </td> <td colspan="4"> <b>International Isotopes Inc.</b>            (Including International Isotopes Idaho Inc. subsidiary)         </td> </tr> <tr> <td>           TOLERANCE            .XX ±.00            .XXX ±.005            FRACT. ±1/64            ANGLES ±3°         </td> <td>           DRAWN:            KH         </td> <td>           DATE:            12/15/11         </td> <td>           INIS-SF-XX-YY-Z            Double Welded            Cap Design         </td> </tr> <tr> <td colspan="2">           CHECKED:            SA         </td> <td>           DATE:            12/15/11         </td> <td colspan="2">           REV. C         </td> </tr> <tr> <td colspan="2">           APPROVED:            SA         </td> <td>           DATE:            12/15/11         </td> <td colspan="2">           DWG. NO.            INIS-DWG-0001         </td> </tr> <tr> <td colspan="2">           SIGN:            N/A         </td> <td colspan="3">           Sheet 1 of 1         </td> </tr> </table>						<b>International Isotopes Inc.</b> (Including International Isotopes Idaho Inc. subsidiary)				TOLERANCE .XX ±.00 .XXX ±.005 FRACT. ±1/64 ANGLES ±3°	DRAWN: KH	DATE: 12/15/11	INIS-SF-XX-YY-Z Double Welded Cap Design	CHECKED: SA		DATE: 12/15/11	REV. C		APPROVED: SA		DATE: 12/15/11	DWG. NO. INIS-DWG-0001		SIGN: N/A		Sheet 1 of 1		
	<b>International Isotopes Inc.</b> (Including International Isotopes Idaho Inc. subsidiary)																											
	TOLERANCE .XX ±.00 .XXX ±.005 FRACT. ±1/64 ANGLES ±3°	DRAWN: KH	DATE: 12/15/11	INIS-SF-XX-YY-Z Double Welded Cap Design																								
CHECKED: SA		DATE: 12/15/11	REV. C																									
APPROVED: SA		DATE: 12/15/11	DWG. NO. INIS-DWG-0001																									
SIGN: N/A		Sheet 1 of 1																										

REVISIONS			
LTR.	DESCRIPTION	BY	DATE
A	Add Dimensions & Material	DL	2-3-05
B	Add 304L, 316 & 316L Alloys	DL	9-1-06
C	Add Wall Range	KH	12-15-11

ITEM NO.	DWG. SIZE	PART OR IDENTIFYING NO.	DESCRIPTION	QTY

<p>Co-60 INIS-SF XX-XX</p>	<p>INIS-SF-XX-YY-Z Single Welded Cap Design</p>
------------------------------------	---

<p>International Isotopes Inc. (Including International Isotopes Idaho Inc. subsidiary)</p>	<p>DATE: 12/15/11</p>
<p>DRAWN: KH</p>	<p>CHECKED: SA</p>
<p>DATE: 12/15/11</p>	<p>APPROVED: SA</p>
<p>FRACT. : 1/64</p>	<p>DATE: 12/15/11</p>
<p>ANGLES : 30°</p>	<p>SIG: N/A</p>

<p>SCALE: NONE</p>	<p>Sheet 1 of 1</p>
<p>REV. C</p>	<p>INIS-DWG-0002</p>

<p>ITEM NO.</p>	<p>DWG. SIZE</p>	<p>PART OR IDENTIFYING NO.</p>	<p>DESCRIPTION</p>	<p>QTY</p>
-----------------	------------------	--------------------------------	--------------------	------------

<p>INIS-SF-XX-YY-Z Single Welded Cap Design</p>	<p>DATE: 12/15/11</p>
<p>DRAWN: KH</p>	<p>CHECKED: SA</p>
<p>DATE: 12/15/11</p>	<p>APPROVED: SA</p>
<p>FRACT. : 1/64</p>	<p>DATE: 12/15/11</p>
<p>ANGLES : 30°</p>	<p>SIG: N/A</p>

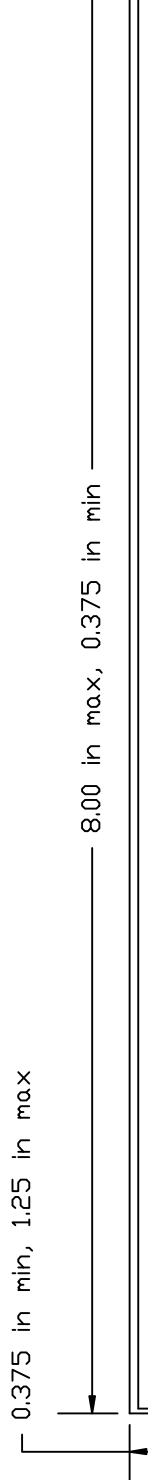
<p>SCALE: NONE</p>	<p>Sheet 1 of 1</p>
<p>REV. C</p>	<p>INIS-DWG-0002</p>

All dimensions in inches

All components fabricated from 304, 304L, 316 or 316L SST

Caps and capsule bodies shall be fabricated from the same alloy

Fusion seal weld on the full circumference of all end caps



OUTER CAPSULE

INNER CAPSULE



Typical Labeling



U.S. Department  
of Transportation

East Building, PHH-23  
1200 New Jersey Avenue SE  
Washington, D.C. 20590

**Pipeline and  
Hazardous Materials  
Safety Administration**

**CERTIFICATE NUMBER:** USA/0707/S-96, Revision 5

**ORIGINAL REGISTRANT(S):**

Mr. John Miller  
Radiation Safety Officer  
International Isotopes Inc.  
4137 Commerce Circle  
Idaho Falls, 83401  
USA

**REGISTERED USER(S):**

Ms. Frida Tan  
Regulatory Affairs Manager  
Eckert & Ziegler Isotope Products  
24937 Avenue Tibbitts  
Valencia, 91355  
USA

Mr. Nengwu Huang  
Chengdu Gaotong Isotope Co., Ltd.  
Science & Technology Development Building B  
No.28 South Thrid Section  
Yihuan Road  
Chengdu, 610041  
CHINA

Mr. Yu-Lung "Dan" Cheng  
Majestic Superior Logistics Inc  
3100 S 176th Street  
Suite 100  
Seatac, 98188  
USA