



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

**IAEA CERTIFICATE OF COMPETENT AUTHORITY  
SPECIAL FORM RADIOACTIVE MATERIALS  
CERTIFICATE USA/0571/S-96, REVISION 3**

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

1. Source Identification - Varian Model VS-2000.
2. Source Description - The source is a Nitinol wire containing two 2.5 mm (0.098 in.) enriched iridium seeds. The seeds are inserted into a 6.0 mm (0.24 in.) deep cavity in the wire. The wire cavity was made by either a conventional drilling or a electrical discharge machining process and was sealed with a Nitinol endcap by either gas tungsten arc or laser welding. The outer diameter of the wire is approximately 0.6 mm (0.024 in.) and the wire is approximately 2.6 meters (8.53 ft.) long. Construction shall be in accordance with attached Varian Medical Systems Drawing No. SK32163500, Issue 1.
3. Radioactive Contents - No more than 0.48 TBq (13 Curies) of Iridium-192 seeds.
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 November 30, 2017.

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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/0571/S-96, REVISION 3**


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 November 21, 2012 petition by Varian Medical Systems, Palo Alto, CA, and in consideration of other information on file in this Office.

Certified By:



**Dec 07 2012**

(DATE)

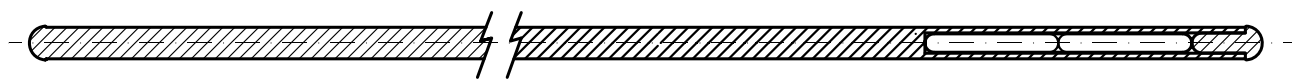
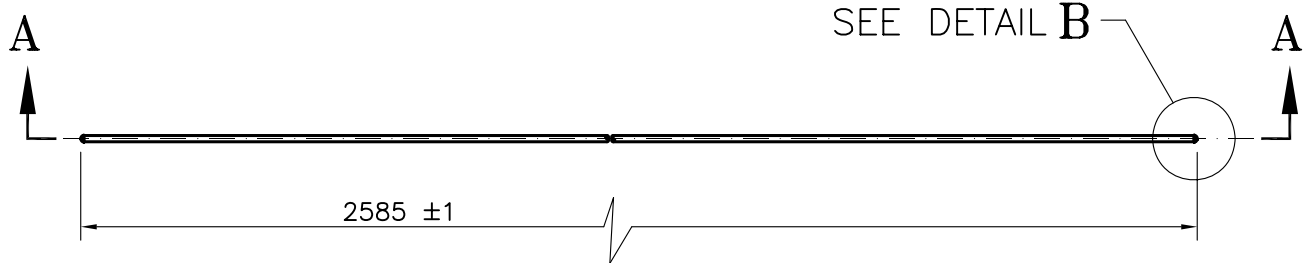
 Dr. Magdy El-Sibaie

Associate Administrator for Hazardous Materials Safety

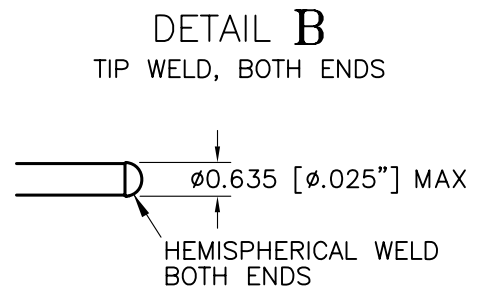
Revision 3 - Issued to extend the expiration date.

DO NOT SCALE, IF IN DOUBT ASK

QTY.	PART No.	DRG. SIZE	DESCRIPTION	ITEM



SECTION A-A  
SOURCE & PLUG PLACEMENT



000 SHOWN

PROJECTION

REFER TO  
BS. 308  
FOR  
INTERPRETATION

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This drawing is a PRIVATE & CONFIDENTIAL document and is supplied on loan by request. Possession of this drawing by the issued Company acknowledges that no third party may examine, copy or possess it, except by express permission of Varian Medical Systems UK Ltd in writing.  
Note: the issued Company upon request of Varian Medical Systems UK Ltd must return this drawing intact.

ECO No. / DATE BY	
CHANGE / ZONE	
NEW DRAWING	

	UNLESS OTHERWISE STATED: - MANUFACTURE TO QA 7000	
	DIMENSIONS - IN MILLIMETRES (mm)	
MATERIAL: ---	TAPPED HOLES: I.S.O. METRIC, PITCH, 6H, BS.3643	TOLERANCES: ANGULAR, ± 0.5 DEGREE LINEAR, .XXX ± 0.12 .XX ± 0.25 .X ± 0.5 .X' ± 1.0
SPECIFICATION: ---	SURFACE TEXTURE: VALUES IN µm, 1.9 (MACHINED FACES)	
TREATMENT: ---	DRAWN BY: wws	TITLE: VS2000 SEALED SOURCE WIRE SUBMISSION DRAWING
FINISH: MACHINE AT REMOVE ALL BURRS	APPROVED BY: ---	DRG. No. SK32163500
	ORIGINAL SCALE: NTS	SIZE: A3 (B)
	FIRST USED ON: ---	SHEET No. 1 of 1 SHTS.
	SIMILAR TO: ---	ISSUE :- 1
	REVIEWED BY: apartrid	
VARIAN MEDICAL SYSTEMS UK LTD, GATWICK ROAD, CRAWLEY, WEST SUSSEX, RH10 2RQ, U.K.		



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**CERTIFICATE NUMBER:** USA/0571/S-96, Revision 3

**ORIGINAL REGISTRANT(S):**

Mr. Rick Piccolo  
Varian Medical Systems  
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Suite 109  
Charlottesville, 22903  
USA