



U.S. Department
of Transportation

Pipeline and
Hazardous Materials
Safety Administration

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

IAEA CERTIFICATE OF COMPETENT AUTHORITY
SPECIAL FORM RADIOACTIVE MATERIALS

CERTIFICATE USA/0571/S-96, REVISION 4

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 - 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. 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.

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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5. Expiration Date - This certificate expires on October 31, 2022. Previous editions which have not reached their expiration date may continue to be used.

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 September 13, 2017 petition by Varian Medical Systems, Palo Alto, CA, and in consideration of other information on file in this Office.

Certified By:

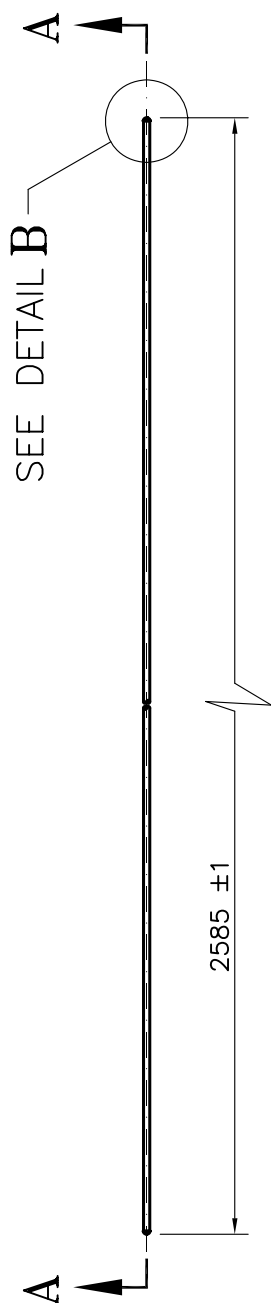


October 20, 2017
(DATE)

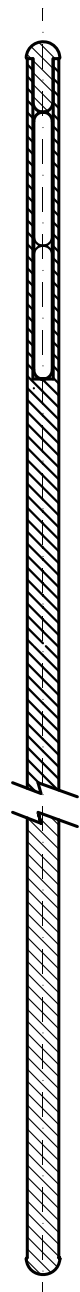
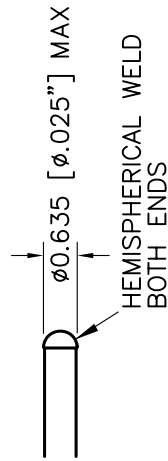
 William Schoonover
Associate Administrator for Hazardous
Materials Safety

Revision 4 - Issued to extend the expiration date.

| | | | | | | | | | | | |
|-------------------------------|---|---|---|---|---|---|----------|---|-------------|----|------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| DO NOT SCALE, IF IN DOUBT ASK | | | | | | | | | | | ITEM |
| QTY. | | | | | | | PART No. | | DESCRIPTION | | |
| DRG. SIZE | | | | | | | | | | | |



DETAIL B
TIP WELD, BOTH ENDS



SECTION A-A
SOURCE & PLUG PLACEMENT

| | |
|--|-------------------------------------|
| PROJECTION | 1st ANGLE |
| 000 SHOWN | REFER TO BS. 308 FOR INTERPRETATION |
| <p>COPYRIGHTS This drawing is a property of VARIAN MEDICAL SYSTEMS LTD. No part of this drawing may be reproduced, stored in a retrieval system, or transmitted in any form or by any means, electronic, mechanical, photocopying, recording, or by any information storage and retrieval system, without the prior written permission of VARIAN MEDICAL SYSTEMS LTD. For most return this drawing, please.</p> | |

| | |
|-------------|-------------|
| ECO No./REV | 05 FEB 2001 |
| CHANGE/ZONE | NEW DRAWING |

| | | | |
|--|--|---|--|
| UNLESS OTHERWISE STATED:- | | MANUFACTURE TO: SA 7000 | |
| TAPPED HOLES | | TOLERANCES: | |
| I.S.O. METRIC PITCH, 6H, BS.3643 | | ANGULAR, ± 0.5 DEGREE | |
| SURFACE TEXTURE | | LINEAR, .XXX ± 0.12 | |
| VALUES IN µm, 1/9 (MACHINED FACES) | | X ± 0.0 | |
| DRAWN BY | | NWS | |
| APPROVED BY | | NTS | |
| ORIGINAL SCALE | | NTS | |
| FIRST USED ON | | NTS | |
| SIMILAR TO | | NTS | |
| REVIEWED BY | | opert/td | |
| SPECIFICATION: | | VARIAN MEDICAL SYSTEMS UK LTD, GATWICK ROAD, CRAWLEY, WEST SUSSEX, BN10 2RG, U.K. | |
| TITLE | | VS20000 | |
| SEALING SOURCE WIRE SUBMISSION DRAWING | | SIZE | |
| DRG. No. | | SK32163500 | |
| SHEET No. | | 1 of 1 | |
| ISSUE | | 3 - 1 | |



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CERTIFICATE NUMBER: USA/0571/S-96

ORIGINAL REGISTRANT(S) :

Varian Medical Systems
M/S LV1
6883 Spencer Street
Las Vegas, NV, 89119
USA