



U.S. Department
of Transportation

Pipeline and
Hazardous Materials
Safety Administration

IAEA CERTIFICATE OF COMPETENT AUTHORITY
SPECIAL FORM RADIOACTIVE MATERIALS
CERTIFICATE USA/0723/S-96, REVISION 3

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 Agency¹ and the United States of America² for the transport of radioactive material.

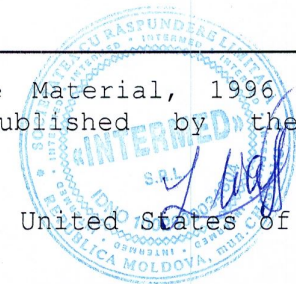
1. Source Identification - Varian Medical Systems Models 212 and 232.
2. Source Description - The Model 212 is a cylindrical single encapsulation made of stainless steel and either tungsten inert gas, laser, or plasma seal welded. Approximate outer dimensions of the encapsulation are 1.1 mm (0.04 in.) in diameter and either 3.36 mm (0.13 in.) or 4.96 mm (0.2 in.) in length. Minimum wall thickness is 0.17 mm (0.007 in.). A stainless steel connector and cable is welded to one end of the encapsulation. The overall length of the encapsulation, connector, and cable is 2,100 mm (82.7 in.). Construction shall be in accordance with either attached Varian Medical Systems Drawing Nos. GM212.13-020-SFC, Rev. D00 or GM212.13-010-SFC, Rev. D00.

The Model 232 is a cylindrical single encapsulation made of stainless steel and either tungsten inert gas, laser, or plasma seal welded. Approximate outer dimensions of the encapsulation are 0.9 mm (0.04 in.) in diameter and either 2.97 mm (0.12 in.) or 4.52 mm (0.18 in.) in length. Minimum wall thickness is 0.08 mm (0.003 in.). A stainless steel connector and cable is welded to one end of the encapsulation. The overall length of the encapsulation, connector, and cable is 2,100 mm (82.7 in.). Construction shall be in accordance with either attached Varian Medical Systems Drawing Nos. GM232.03-000-SFC, Rev. E00 or GM232.02-000-SFC, Rev. D00.

3. Radioactive Contents - No more than 51.8 GBq (1.4 Ci) of Iridium-192 for the short version of either Model or 555.0 GBq (15.0 Ci) of Iridium-192 for the long version of either Model. The Ir-192 is in the form of a solid metal.

¹ "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.

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



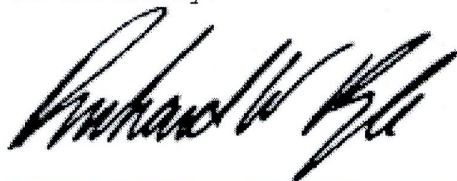
CERTIFICATE USA/0723/S-96, REVISION 3

4. Quality Assurance - Records of Quality Assurance activities required by Paragraph 310 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 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 February 28, 2021.

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 February 02, 2016 petition by Varian Medical Systems, Palo Alto, CA, and in consideration of other information on file in this Office.

Certified By:

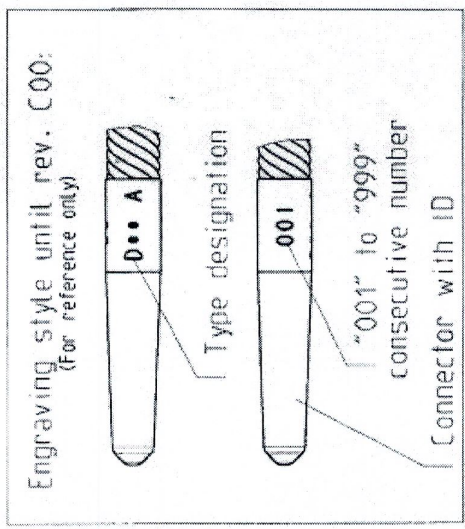
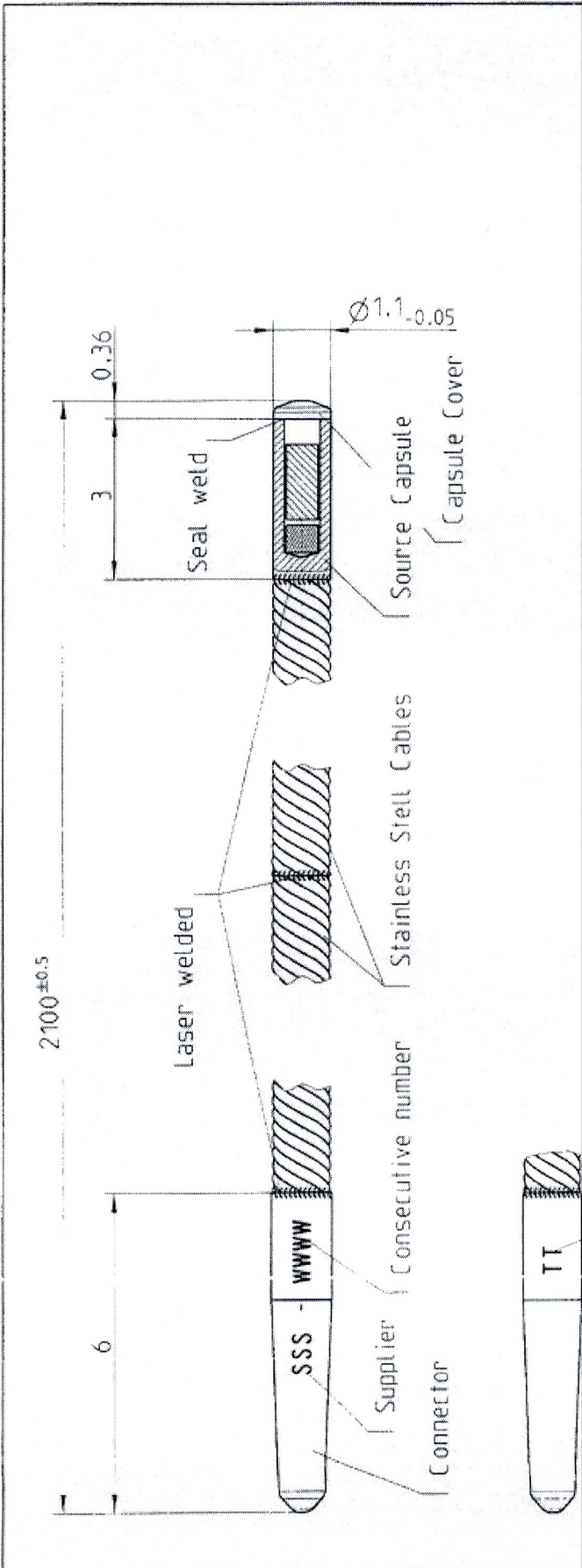


Dr. Magdy El-Sibaie
Associate Administrator for Hazardous Materials Safety

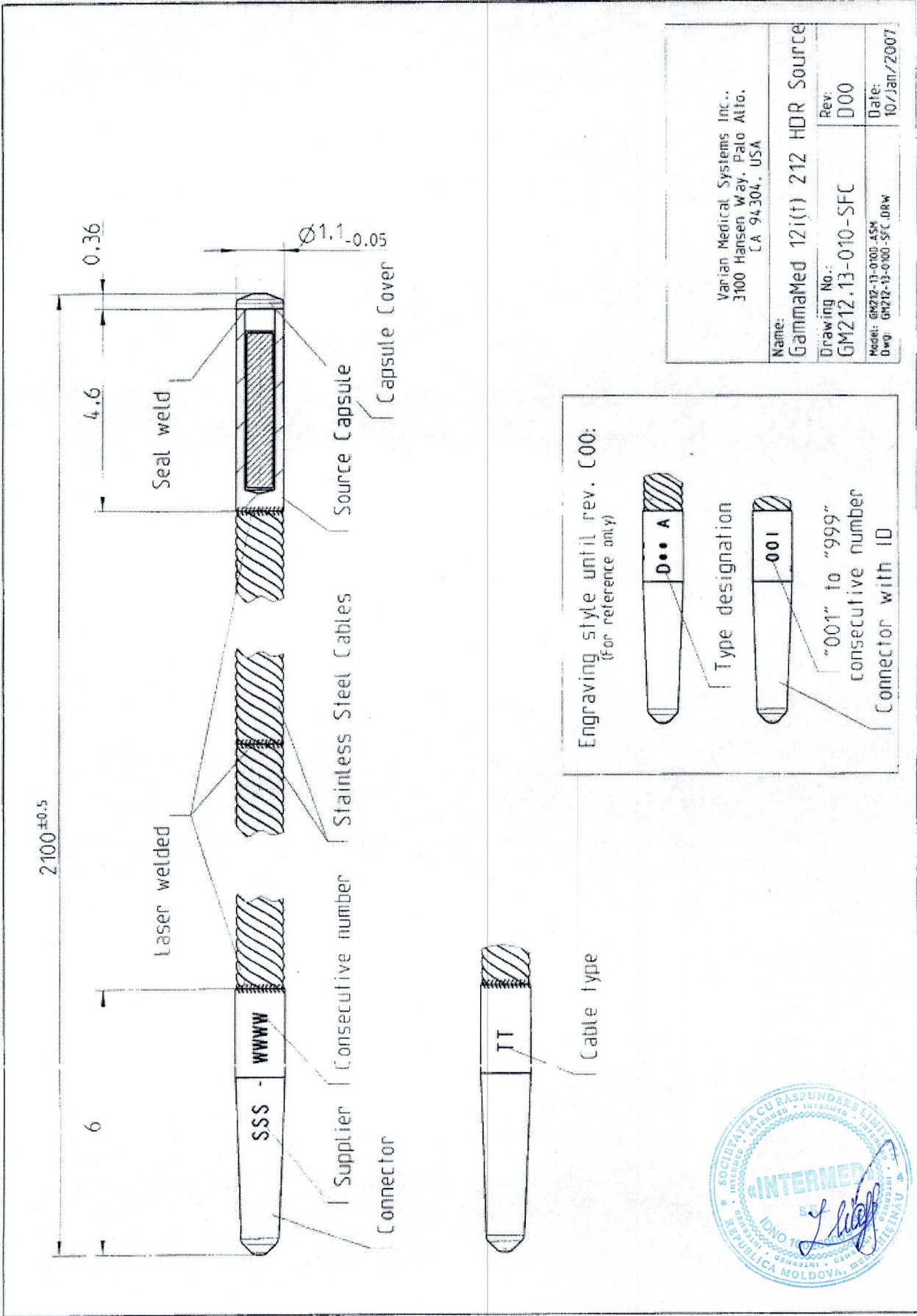
Revision 3 - Issued to extend the expiration date.

Feb 26 2016
(DATE)



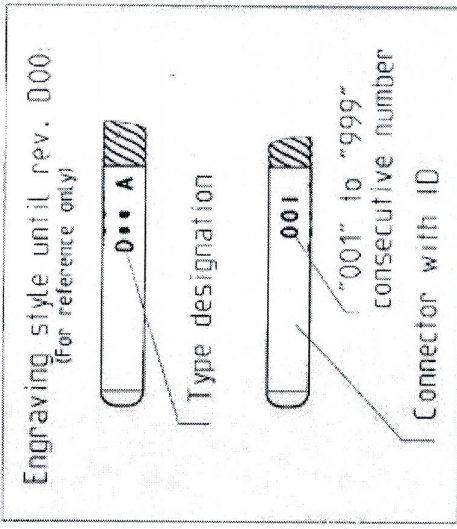
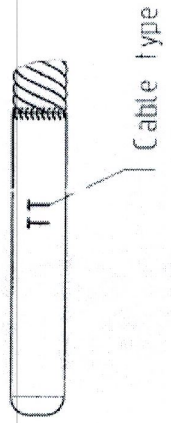
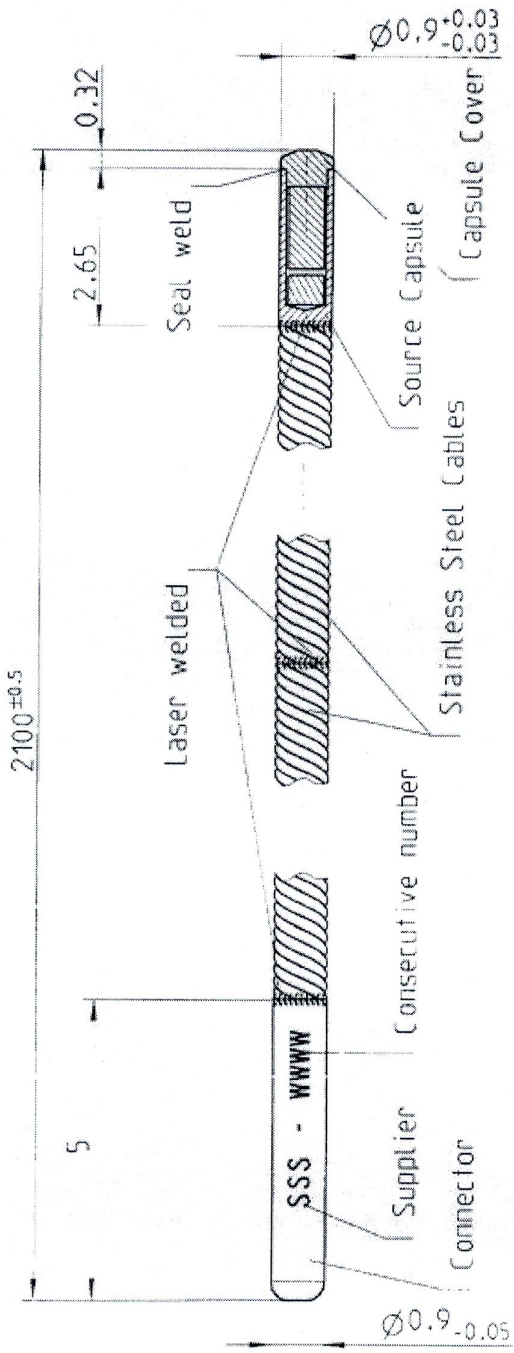


VARIAN medical systems Varian Medical Systems Inc., 3100 Hansen Way, Palo Alto, CA 94304, USA	
Name:	GammaMed 12i(i) 212 PDR Source
Drawing No.:	GM212.13-020-SFC
Rev:	D00
Model:	GM212-13-020-ASM
Dwg:	GM212-13-020-SFC.DRW
Date:	10/Jan/2007



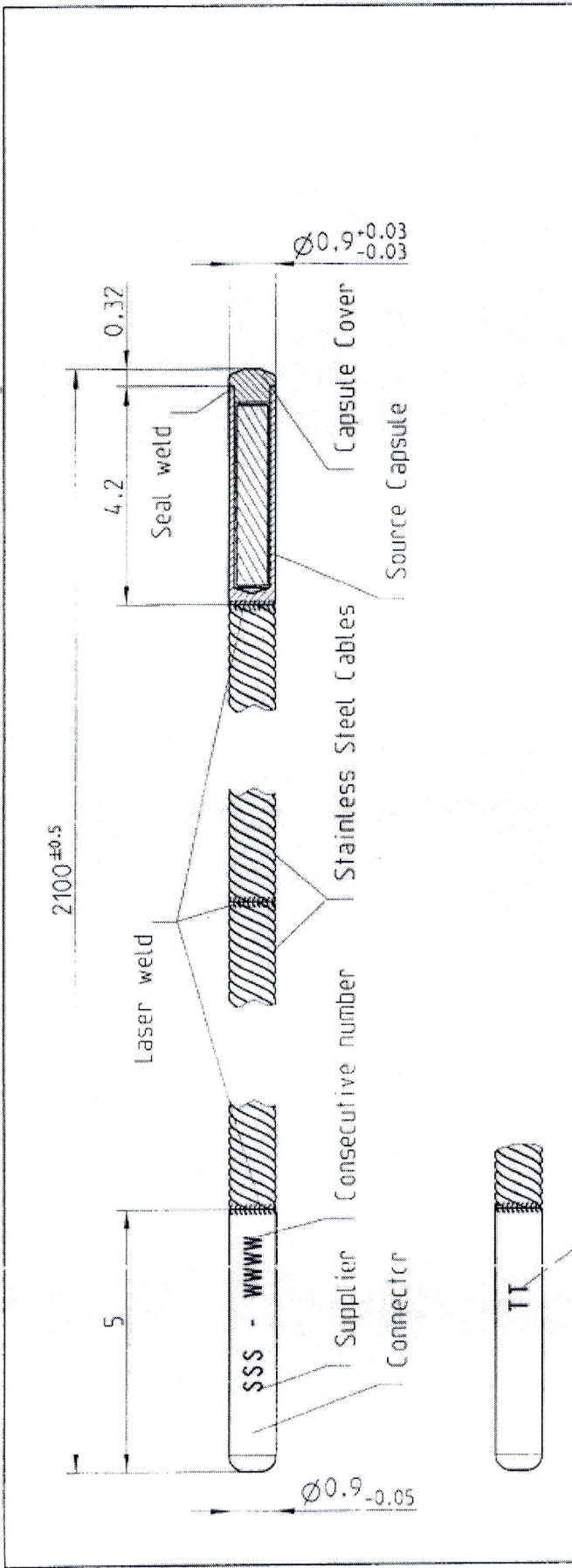
Varian Medical Systems Inc., 3100 Hansen Way, Palo Alto, CA 94304, USA	
Name:	GammaMed 12i(t) 212 HDR Source
Drawing No.:	GMZ12.13-010-SFC
Rev:	D00
Model:	GMZ12-13-0100-ASM
Date:	10/Jan/2007
Dwg:	GMZ12-13-0100-SFC.DRW





VARIAN medical systems Varian Medical Systems Inc., 3100 Harisen Way, Palo Alto, CA 94304, USA	
Name:	GammaMed plus 232 PDR Source
Drawing No.:	GM232.03-000-SFC
Rev:	E00
Model:	GM232-03-000E-ASH
Dwg:	GM232-03-000E-SFC.DRW
Date:	11/Jan/2007





Supplier Connector

Consecutive number

Stainless Steel Cables

Source Capsule

Seal weld

Capsule Cover

2100 ± 0.5

5

4.2

0.32

Ø0.9^{+0.003}/_{-0.05}

Ø0.9^{+0.003}/_{-0.05}

SSS - WWW

TT

Cable type

VARIAN medical systems Varian Medical Systems Inc., 3100 Hansen Way, Palo Alto, CA 94304, USA	
Name:	GammaMed plus 232 HDR Source
Drawing No.:	GM232.02-000-SFC
Rev:	D00
Model:	GM232-02-0000.ASH
Dwg:	GM232-02-000000-SFC.DRW
Date:	11/Jan/2007

Engraving style unit rev. C00:
(for reference only)



Type designation



"001" to "999"
consecutive number

Connector with ID





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Pipeline and
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Safety Administration

CERTIFICATE NUMBER: USA/0723/S-96, Revision 3

ORIGINAL REGISTRANT(S):

Mr. Richard G. Piccolo
Radiation Safety Officer
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Charlottesville, 22902
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