

U.S. Department of Transportation

IAEA CERTIFICATE OF COMPETENT AUTHORITY SPECIAL FORM RADIOACTIVE MATERIALS

Pipeline and Hazardous Materials Safety Administration CERTIFICATE USA/0458/S-96, REVISION 7

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 1 and the United States of America 2 for the transport of radioactive material.

- 1. Source Identification Neutron Products, Inc. Model NPRP 450-10-B.
- 2. Source Description Cylindrical double encapsulation made of Type 316L stainless steel with fusion seal welded endcaps. Approximate outer dimensions are 11.1 mm (0.437 in.) in diameter and 451.5 mm (17.777 in.) in length. Construction shall be in accordance with attached Neutron Products, Inc. Drawing No. A-200355, Rev. A, or Neutron Products, Inc. Drawing No. A-200355, Rev. B.
- 3. Radioactive Contents Source capsules manufactured in accordance with Neutron Products, Inc. Drawing No. A-200355, Rev. A, shall contain no more than 445 TBq (12,000 Ci) of Cobalt-60. Source capsules manufactured in accordance with Neutron Products, Inc. Drawing No. A-200355, Rev. B, shall contain no more than 500 TBq (13,500 Ci) of Cobalt-60. The Co-60 is in the form of solid metal rods.
- 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 January 31, 2028. 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 December 6, 2022 petition by Neutron Products, Inc., Dickerson, MD, and in consideration of other information on file in this Office.

Certified By:

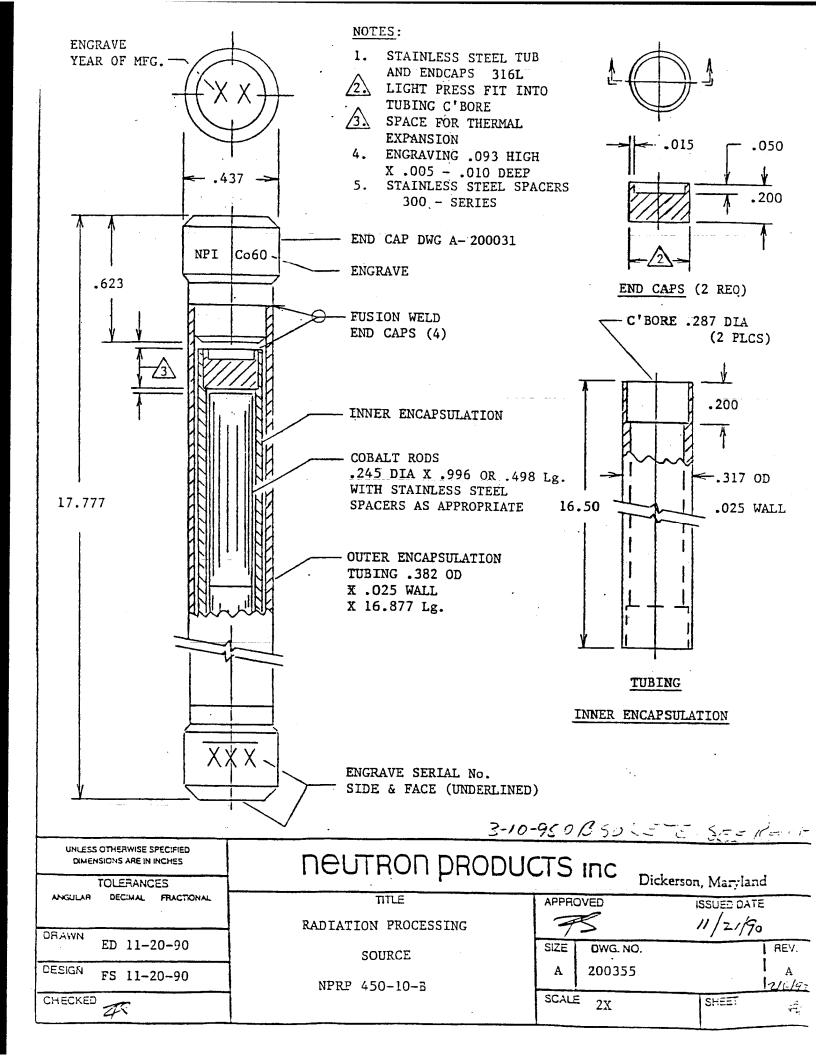
William Schoonover

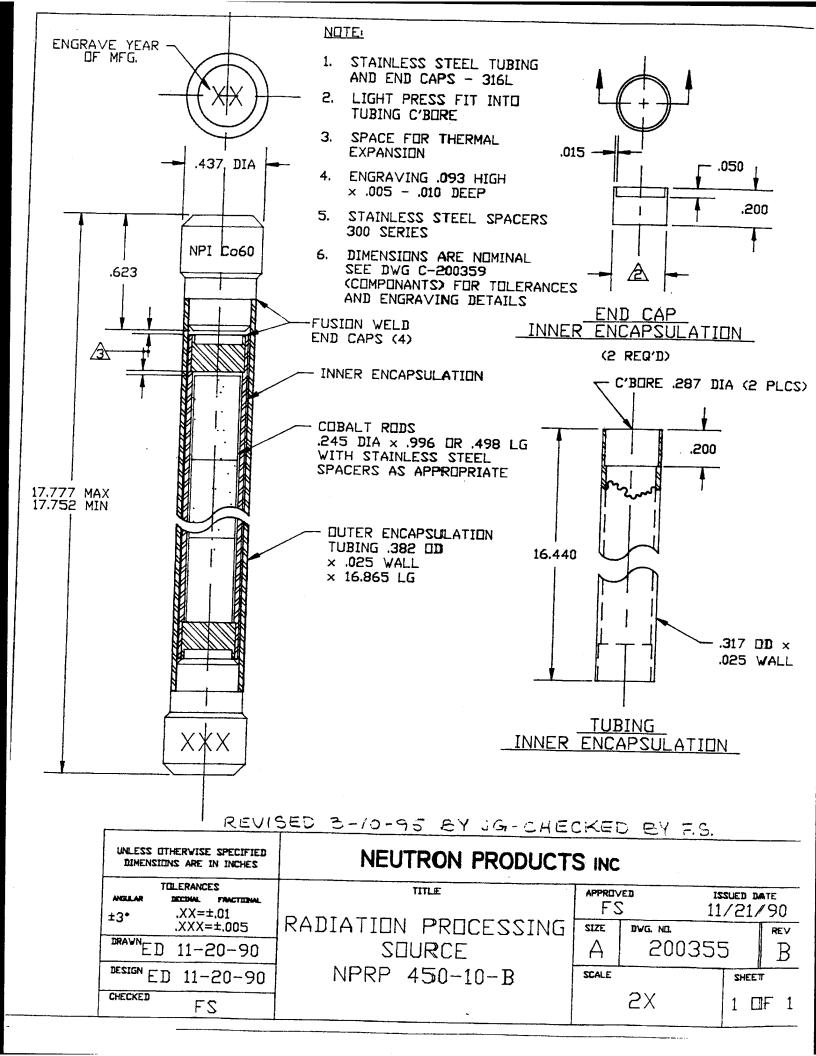
Associate Administrator for Hazardous

Materials Safety

January 13, 2023 (DATE)

Revision 7 - Issued to extend the expiration date.







U.S. Department of Transportation

Pipeline and Hazardous Materials Safety Administration

CERTIFICATE NUMBER: USA/0458/S-96

ORIGINAL REGISTRANT(S):

Neutron Products, Inc. 22301 Mt. Ephraim Road P.O. Box 68 Dickerson, MD, 20842 USA

Nordion (Canada) Inc. 447 March Road Ottawa, Ontario, K2K 1X8 Canada