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

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

IAEA CERTIFICATE OF COMPETENT AUTHORITY
SPECIAL FORM RADIOACTIVE MATERIALS
CERTIFICATE USA/0458/S-96, REVISION 6

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. Quality Assurance - Records of Quality Assurance activities required by Paragraph 310 of the IAEA regulations[1] 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 March 31, 2022.

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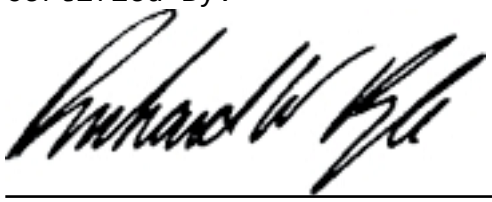
[1] "Regulations for the Safe Transport of Radioactive Material, 1996 Edition (Revised), No. TS-R-1 (ST-1, Revised)," published by the International Atomic Energy Agency(IAEA), Vienna, Austria.

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

CERTIFICATE USA/0458/S-96, REVISION 6

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 24, 2017 petition by Neutron Products, Inc., Dickerson, MD, and in consideration of other information on file in this Office.

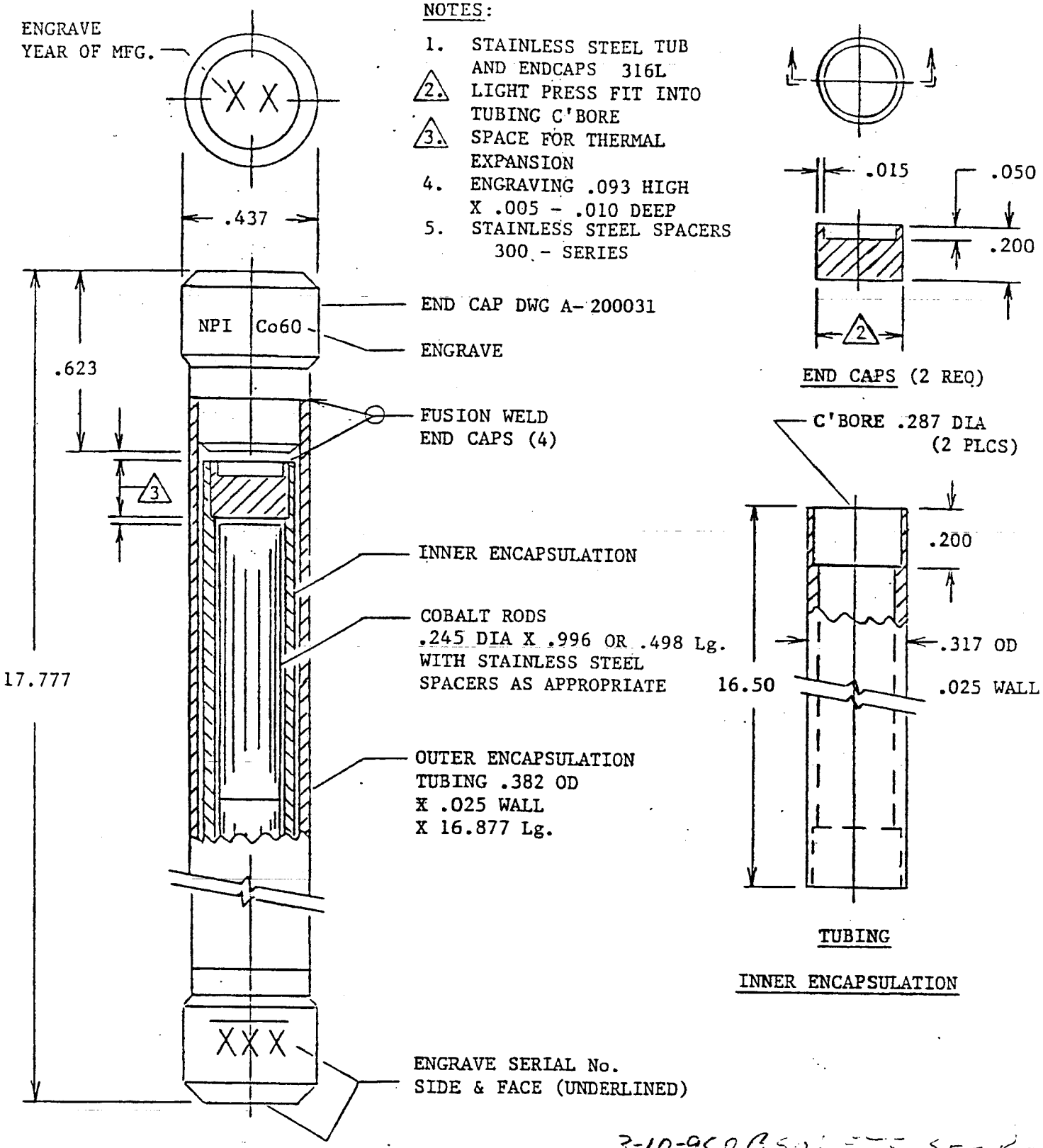
Certified By:



Mar 03 2017

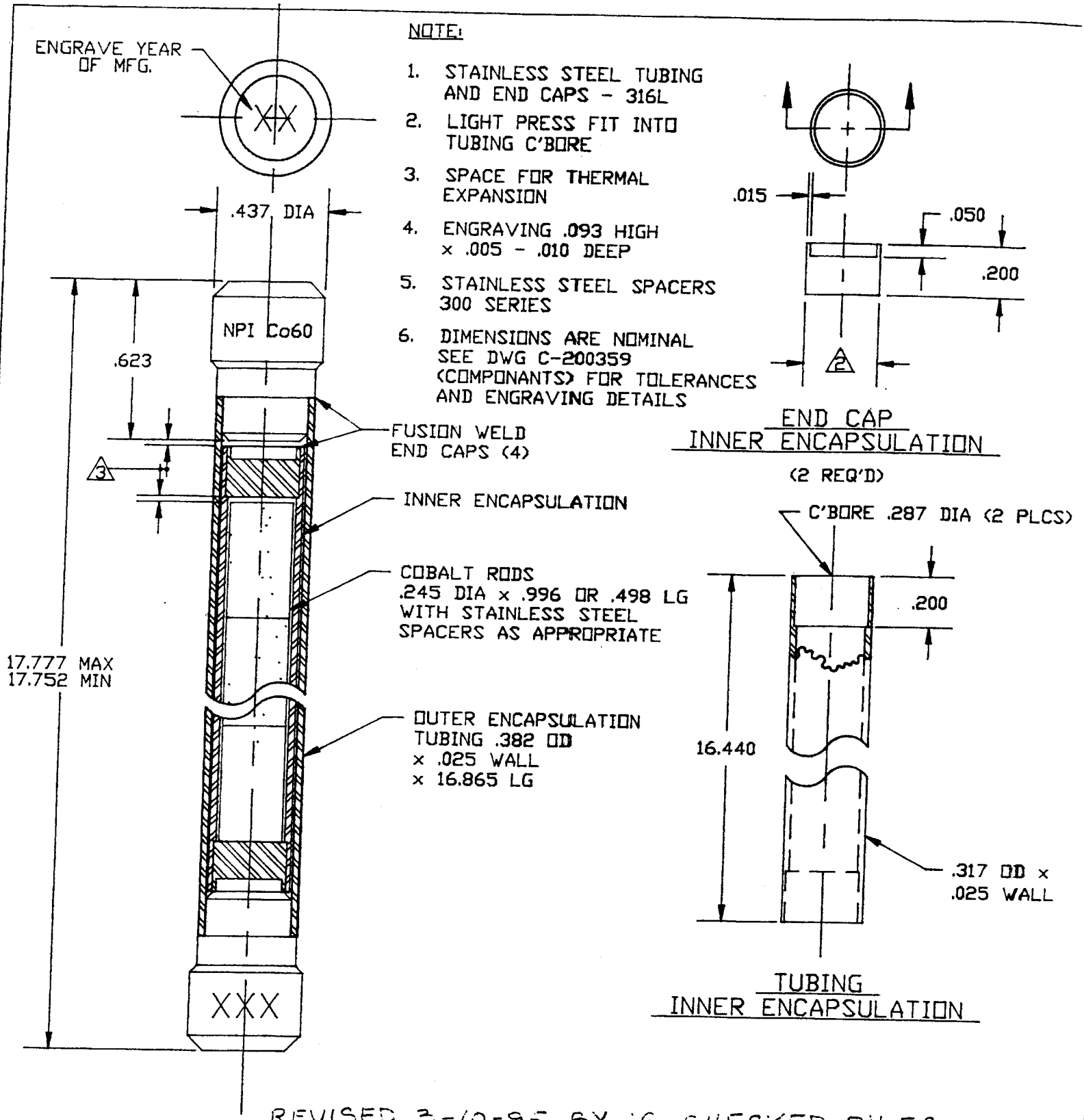
William Schoonover (DATE)
Acting Associate Administrator for Hazardous Materials Safety

Revision 6 - Issued to extend the expiration date.



3-10-95 OBSOLETE SEE REV F

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ANGULAR DECIMAL FRACTIONAL	neutron PRODUCTS inc Dickerson, Maryland	
DRAWN ED 11-20-90 DESIGN FS 11-20-90 CHECKED	TITLE RADIATION PROCESSING SOURCE NPRP 450-10-B	APPROVED ISSUED DATE 11/21/90 SIZE A | DWG. NO. 200355 | REV. A 2/16/93 SCALE 2X | SHEET



REVISED 3-10-95 BY JG-CHECKED BY F.S.

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	**NEUTRON PRODUCTS INC**		
TOLERANCES ANGULAR ±3° DECIMAL .XX=±.01 .XXX=±.005 FRACTIONAL	TITLE: RADIATION PROCESSING SOURCE NPRP 450-10-B	APPROVED FS	ISSUED DATE 11/21/90
DRAWN ED 11-20-90		SIZE A	DWG. NO. 200355 REV B
DESIGN ED 11-20-90		SCALE 2X	SHEET 1 OF 1
CHECKED FS			

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1200 New Jersey Avenue SE
Washington, D.C. 20590**

CERTIFICATE NUMBER: USA/0458/S-96, Revision 6

ORIGINAL REGISTRANT(S):

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