



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/0775/S-96, REVISION 3

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 - Eckert & Ziegler Isotope Products Model No. BP Series (A4163).
2. Source Description - Cylindrical double encapsulation constructed of 17-4PH stainless steel and fusion seal welded. Approximate outer dimensions are 26.62 mm (1.048 in.) in diameter and 134.11 mm (5.28 in.) in length. Construction shall be in accordance with attached Eckert & Ziegler Isotope Products Drawing No. 4163, Rev. B, Sheet 3 of 9.
3. Radioactive Contents - No more than 851 GBq (23 Ci) of Americium-241 (AmBe). The Am-241 oxide and beryllium powder is in the form of a compressed powder pellet in a metal matrix.
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.
5. Expiration Date - This certificate expires on May 31, 2029. Previous editions which have not reached their expiration date may continue to be used.

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.

CERTIFICATE USA/0775/S-96, REVISION 3

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 March 29, 2024 petition by Eckert & Ziegler Isotope Products, Valencia, CA, and in consideration of other information on file in this Office.

Certified By:

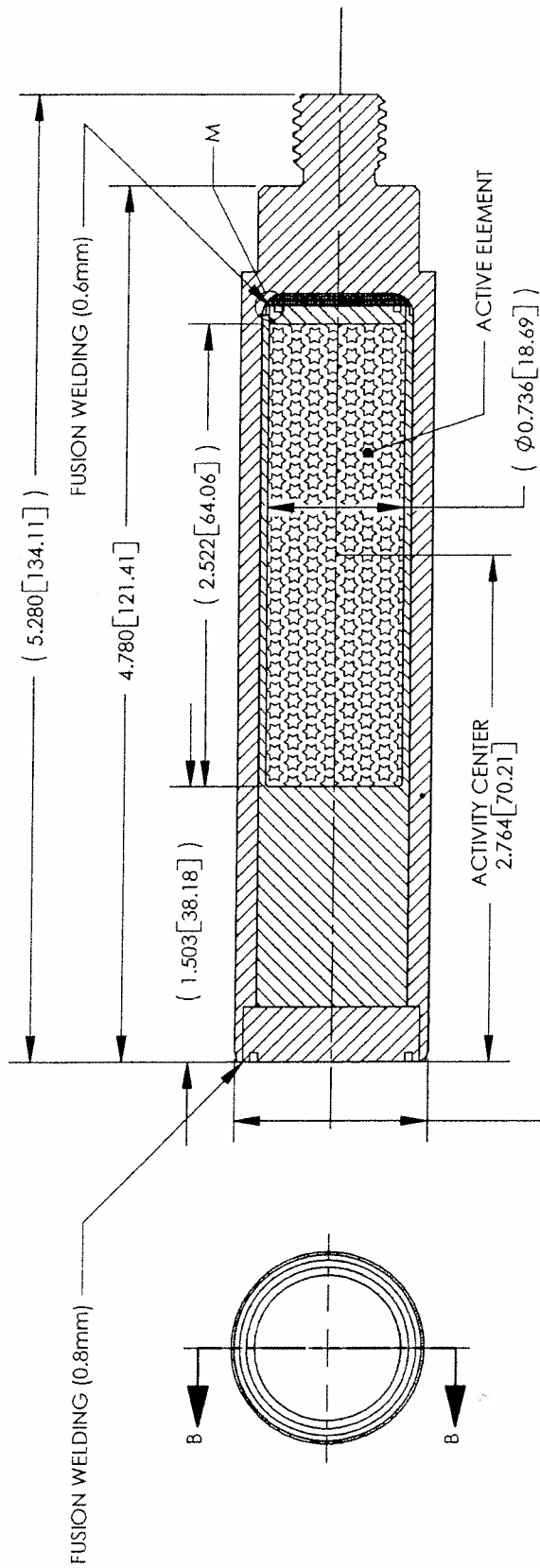


 William Schoonover
Associate Administrator for Hazardous
Materials Safety

May 16, 2024

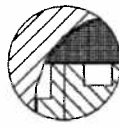
(DATE)

Revision 3 - Issued to extend the expiration date.

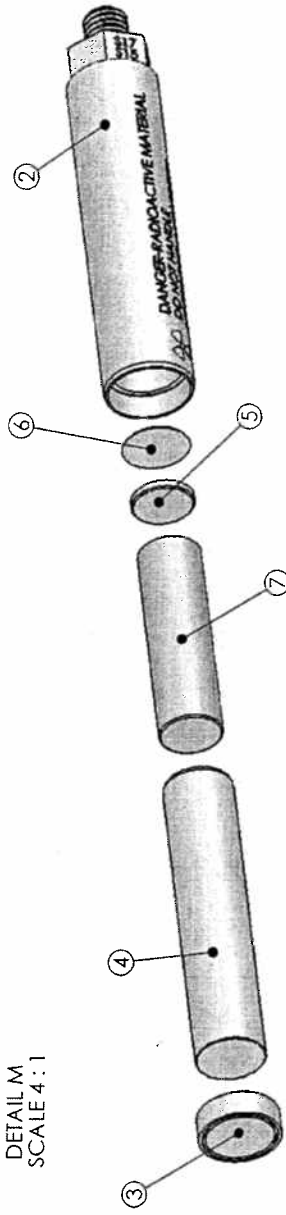
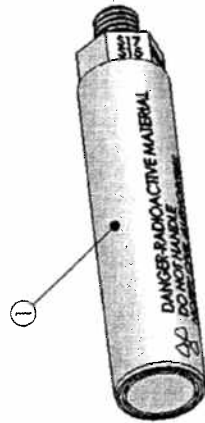


INTERNAL ACTIVE ELEMENT CAPSULE VOLUME
 $17575.003(\text{CYLINDRICAL VOLUME}) - 3.254(\text{END ROUND}) = 17571.749\text{mm}^3$

SECTION B-B
 SCALE 1:1:1



DETAIL M
 SCALE 4:1



2. PACKAGE AND IDENTIFY PART NUMBER THEREON
 1. ASSEMBLE PER ENGINEERING DRAWING
 NOTES: UNLESS OTHERWISE SPECIFIED

P/N A4163 DOUBLE ENCAPSULATED Am-Be SOURCE CAPSULE ASSEMBLY

Eckert & Ziegler Isotope Products VALENCIA, CALIFORNIA 91355		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCH-SIZES. METRIC UNITS [mm] ARE IN MILLIMETERS. TOLERANCES (UNLESS OTHERWISE SPECIFIED) X.XXX ± .002 INCH ANGULAR TOLERANCE OF 0°±30' X.XX ± .005 INCH FRACTIONAL DIMENSIONS ± 1/32" X.X ± .03 INCH REFERENCE DIMENSIONS () N/A X. ± .1 INCH SURFACE ROUGHNESS (INCH MAX) ALL DIMENSIONS ARE FINISHED DIMENSIONS		DRAWN KP		TITLE BP SERIES; Am-241/Be NEUTRON-SOURCE, BP4163			
				ME/CHECKER JH		SERIES TITLE OIL WELL LOGGING (Am-Be GROUP)			
				ENGINEER KP					
				THIRD ANGLE PROJECTION		SCALE NONE	SIZE A	CAGE CODE 32993	DRAWING NO. 4163
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ORIGINAL REGISTRANT(S) :

Eckert & Ziegler Isotope Products
24937 Avenue Tibbitts
Valencia, CA, 91355
USA