



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/0498/S-96, REVISION 5

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 (EZIP) Model HEG-1.
2. Source Description - Cylindrical single encapsulation made of Type 304 or 304L stainless steel and fusion seal welded. Approximate outer dimensions are 4.7 mm (0.186 in.) in diameter and 5.7 mm (0.225 in.) in length. Construction shall be in accordance with attached IPL Drawing No. 3025, Sheet 3 of 3, Rev. --.
3. Radioactive Contents -

Radionuclide	Form	Activity GBq (Ci)
Na -22	NaCl in gold or ceramic	3.7 (0.10)
Co - 57	CoO, CoCl ₂ Co(NO ₃) ₂ in ceramic	11.1 (0.30)
Co - 58	CoO, CoCl ₂ Co(NO ₃) ₂ in ceramic	11.1 (0.30)
Co - 60	CoO, CoCl ₂ Co(NO ₃) ₂ in ceramic or Co pellets	11.1 (0.30)
Ge - 68	GeCl ₄ in ceramic	1.85 (0.05)
Ba - 133	BaSO ₄ or BaCl ₂ in gold or ceramic	3.7 (0.10)

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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Cs - 137	CsCl, Cs ₂ SO ₄ or CsNO ₃ in ceramic, AL or Au pellets	11.1 (0.30)
Ra - 226	RaSO ₄ in gold or ceramic	1.85 (0.05)
Cf - 252	Oxide in metal or ceramic	0.037 (0.001)
Actinides*	Oxides in gold or ceramic	1.85 (0.05)

* (Isotopes of Ac, Th, Pa, Np, U, Am, and Cm)

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 January 31, 2025. 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 24, 2019 petition by Eckert & Ziegler Isotope Products, Valencia, CA, and in consideration of other information on file in this Office.

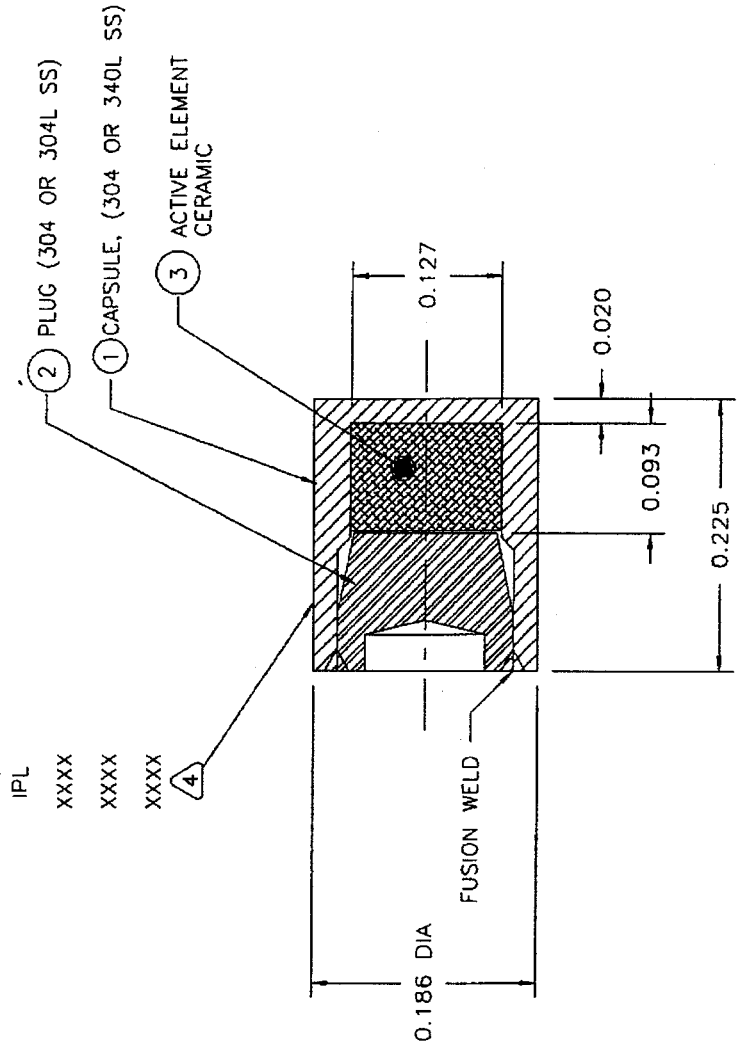
Certified By:



William Schoonover
Associate Administrator for Hazardous
Materials Safety

February 03, 2020
(DATE)

Revision 5 - Issued to extend the expiration date.



SECTION A-A

ASSEMBLY

P/N: A3025

5. PACKAGE AND IDENTIFY PART NUMBER THEREON
 ENGRAVE CHARACTERS 0.060 HIGH x 0.003 DEEP MAX
 ON CIRCUMFERENCE AND BLACK FILL WHEN NOT INSTALLED IN SECONDARY CAPSULE:

IPL
 ISOTOPE
 ACTIVITY
 SERIAL NUMBER

- 3. TOLERANCES: 0.XXX 0.002, 0.XX 0.01±0.X 0.1, ANGLE 0.5 ± °
- 2. DIMENSIONS ARE IN INCHES
- 1. ASSEMBLE COMPLETE PER ENGINEERING DRAWING
 AND FUSION WELD AS REQUIRED

NOTE: UNLESS OTHERWISE SPECIFIED

DATE: 12/29/94	SCALE: NTS	DRAWING NUMBER	SHEET:
DESIGNED: JMD/RLT	REV/CHG: -	3025	3 OF 3



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ORIGINAL REGISTRANT(S) :

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