



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

**IAEA CERTIFICATE OF COMPETENT AUTHORITY
SPECIAL FORM RADIOACTIVE MATERIALS
CERTIFICATE USA/0772/S-96, REVISION 1**

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

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 X130/7.
2. Source Description - Cylindrical single encapsulation made of monel, beryllium, and stainless steel that is brazed on one end and tungsten inert gas, electron beam, or laser welded (fusion welded) on the other end. The capsule may have an optional tungsten shield that is attached with epoxy adhesive. Approximate outer dimensions are 8.1 mm (0.32 in.) in diameter and either 5.3 mm (0.21 in.) in length without the tungsten shield or 5.9 mm (0.23 in.) in length with the tungsten shield. Construction shall be in accordance with attached Eckert & Ziegler Isotope Products Drawing No. RBA61952, Rev. A, Sheet 1 of 1.
3. Radioactive Contents - No more than 11.1 GBq (300 mCi) of either Californium-252 or one isotope of the following actinides: Actinium, Thorium, Protactinium, Neptunium, Uranium, Plutonium, Americium, or Curium only. The Cf-252 is in the form of a solid metal or a ceramic. The actinides are in the form of oxide in ceramic.
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 October 31, 2019.

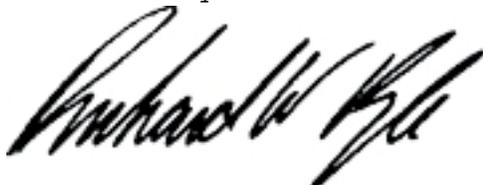
¹ "Regulations for the Safe Transport of Radioactive Material, 1996 Edition (Revised), No. TS-R-1 (ST-1, Revised)," published by the International Atomic Energy Agency (IAEA), Vienna, Austria.

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

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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 October 15, 2014 petition by Eckert & Ziegler Isotope Products, Valencia, CA, and in consideration of other information on file in this Office.

Certified By:



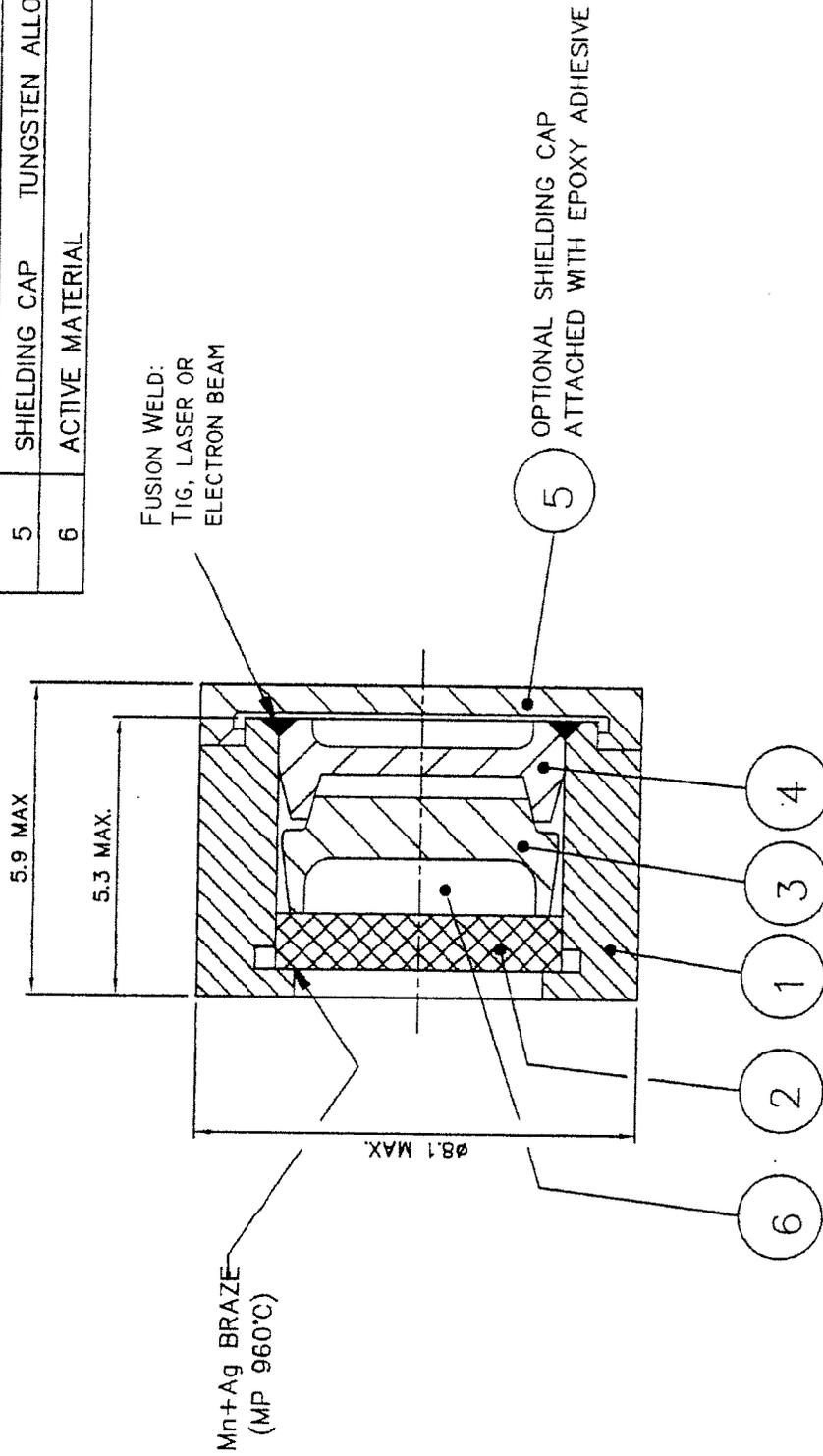
Nov 07 2014

(DATE)

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

Revision 1 - Issued to extend the expiration date.

Item No	Description	No off
1	BODY MONEL	1
2	WINDOW BERYLLIUM	1
3	INSERT STAIN.STL.	1
4	LID MONEL	1
5	SHIELDING CAP TUNGSTEN ALLOY	1
6	ACTIVE MATERIAL	A/R




Eckert & Ziegler
 Isotope Products
 VALENCIA, CALIFORNIA 91355

TITLE		X130/7 CAPSULE ASSEMBLY	
SIZE	DWG. NO.	REV	
A	RBA61952		A
SCALE:		NONE	
		SHEET 1 OF 1	

DIMENSIONS IN MILLIMETERS
 UNLESS OTHERWISE STATED TOLERANCES:

X	±0.5	INTERNAL	NR
XX	±0.1	EXTERNAL	NR
XXX	±0.05		
ANGULAR	±5°		

ERF #	1108
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CERTIFICATE NUMBER: USA/0772/S-96, Revision 1

ORIGINAL REGISTRANT(S):

Ms. Frida Tan
Regulatory Affairs Manager
Eckert & Ziegler Isotope Products
24937 Avenue Tibbitts
Valencia, 91355
USA