



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/0772/S-96, REVISION 2

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<sup>1</sup> and the United States of America<sup>2</sup> 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.

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<sup>1</sup> "Regulations for the Safe Transport of Radioactive Material, 2012 Edition, No. SSR-6" published by the International Atomic Energy Agency (IAEA), Vienna, Austria.

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

**CERTIFICATE USA/0772/S-96, REVISION 2**

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 June 30, 2024. 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 June 25, 2019 petition by Eckert & Ziegler Isotope Products, Valencia, CA, and in consideration of other information on file in this Office.

Certified By:

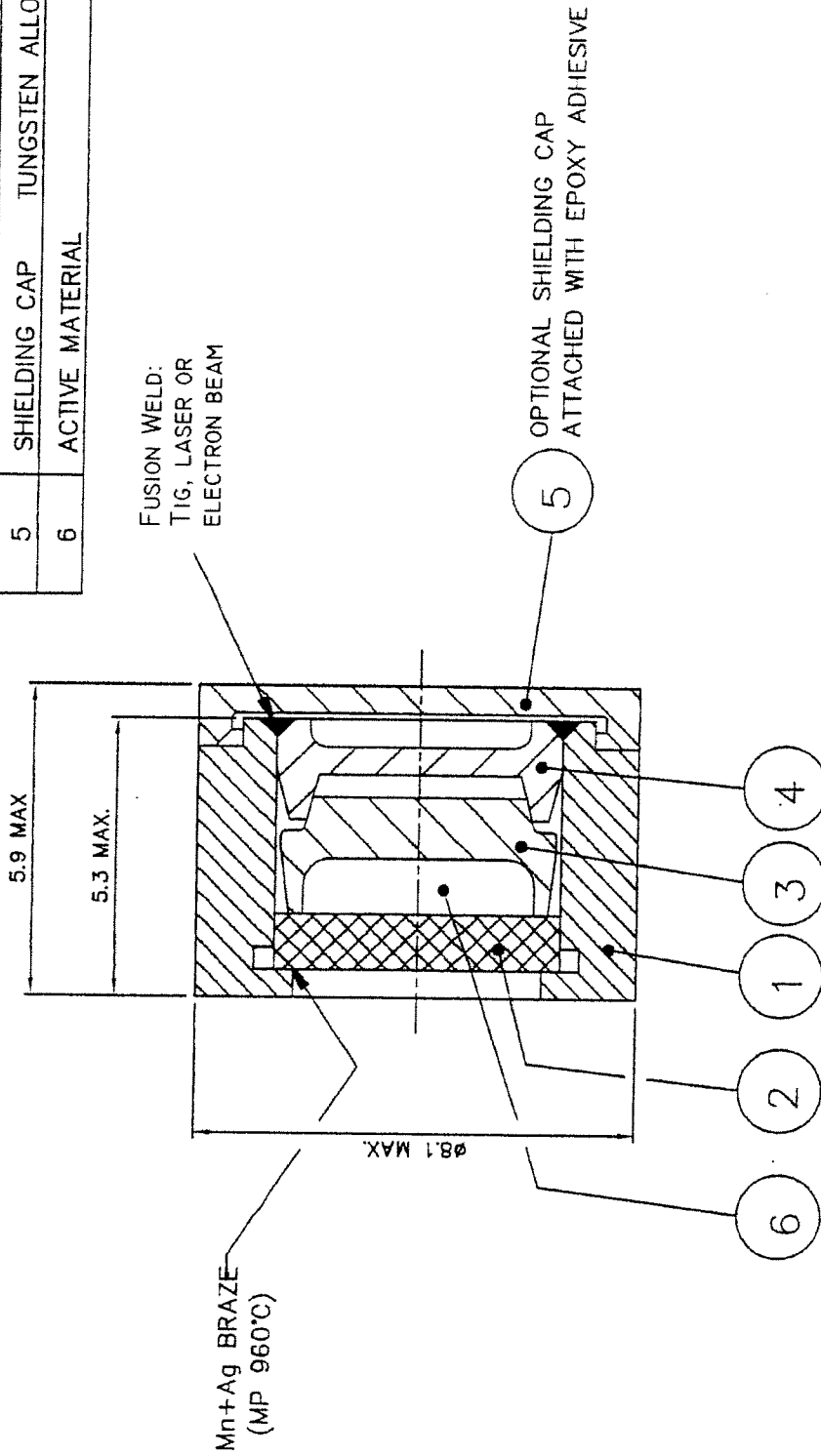


William Schoonover  
Associate Administrator for Hazardous  
Materials Safety

July 03, 2019  
(DATE)

Revision 2 - Issued to extend the expiration date.

| Item No | Description                     | No off |
|---------|---------------------------------|--------|
| 1       | BODY<br>MONEL                   | 1      |
| 2       | WINDOW<br>BERYLLIUM             | 1      |
| 3       | INSERT<br>STAIN.STL.            | 1      |
| 4       | LID<br>MONEL                    | 1      |
| 5       | SHIELDING CAP<br>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 | M/ |
| XX      | ±0.1  | EXTERNAL | N/ |
| XXX     | ±0.05 |          |    |
| ANGULAR | ±5°   |          |    |

|       |      |
|-------|------|
| ERF # | 1108 |
|-------|------|



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**CERTIFICATE NUMBER:** USA/0772/S-96

**ORIGINAL REGISTRANT(S) :**

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