U.S. Department
of Transportation

**Pipeline and
Hazardous Materials
Safety Administration**

**1200 New Jersey Avenue, S.E.
Washington, D.C. 20590**

**IAEA CERTIFICATE OF COMPETENT AUTHORITY
SPECIAL FORM RADIOACTIVE MATERIALS
CERTIFICATE USA/0350/S-96, REVISION 7**

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 United States of America[2] for the transport of radioactive material.

1. Source Identification - Eckert & Ziegler Isotope Products (EZIP) Model 343.

2. Source Description - Cylindrical single encapsulation made of Type 304 or 304L stainless steel and fusion welded. Approximate outer dimensions are 9.53 mm (0.375 in.) in diameter and 7.87 mm (0.31 in.) in length. One end has a recessed hexagonal socket. Construction shall be in accordance with attached Eckert & Ziegler Isotope Products Drawing No. 3222, Sheet 3 of 7, Rev. B.

3. Radioactive Contents - No more than either 11.1 GBq (0.3 Ci) of Strontium-90 or 1.85 GBq (0.05 Ci) of Ruthenium-106. The Sr-90 is in a ceramic or as $SrTiO_4$ in silver. The Ru-106 is in the form of a metal plated on platinum.

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 requirements of Subpart H of 10 CFR 71.

5. Expiration Date - This certificate expires on March 31, 2020.

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 27, 2015 petition submitted by Eckert & Ziegler Isotope Products, Valencia, CA and in consideration of other information on file in this Office.

Certified by:

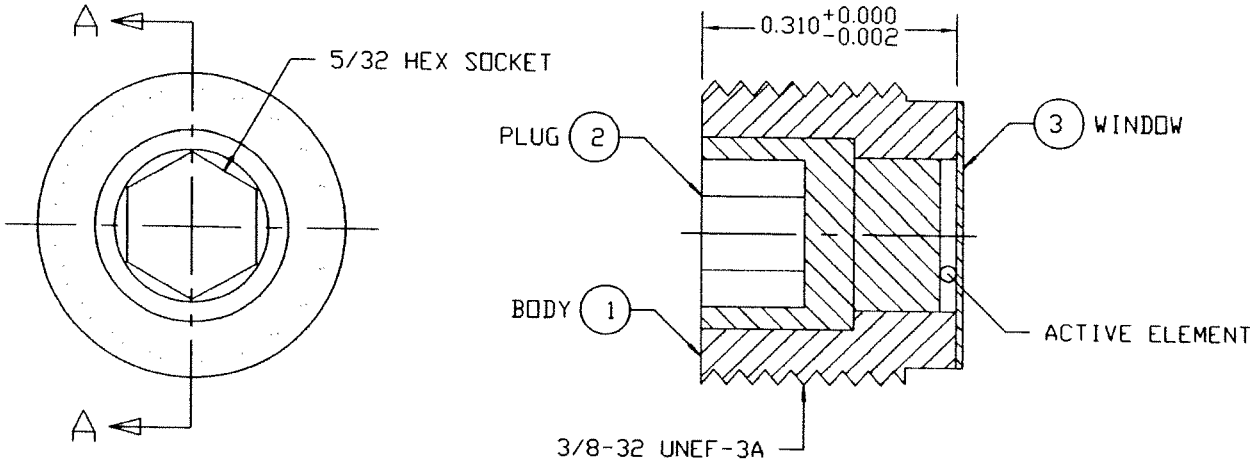
Dr. Magdy El-Sibaie
Associate Administrator for
Hazardous Materials Safety

MAR 1 1 2015
(DATE)

Revision 7 - Issued to extend the expiration date.

[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.



SECTION A-A

2. IDENTIFY PART NUMBER
1. ASSEMBLE COMPLETE PER ENGINEERING DRAWING

NOTE: UNLESS OTHERWISE SPECIFIED

P/N: A3222 ASSEMBLY, GFS BETA CAPSULE

Eckert & Ziegler Isotope Products Valencia, California 91355	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTION ±1/64 · DECIMAL X ±.1, XX .01, XXX .002 · ANGLE ±5°	DESIGN JMD/RLT	DRAWING TITLE BETA CAPSULE, GFS			
		SCALE NONE	SERIES TITLE GFS AND XFB SOURCES (PHI & BFI)			
THIS DRAWING IS THE PROPERTY OF ISOTOPE PRODUCTS LABORATORIES AND MAY NOT BE USED, REPRODUCED, PUBLISHED OR DISCLOSED TO OTHERS WITHOUT EXPRESS AUTHORIZATION BY ISOTOPE PRODUCTS LABORATORIES.	THIRD ANGLE PROJECTION	SIZE A	CAGE CODE 32993	REVISION B	DRAWING NUMBER 3222	SHEET 3 OF 7

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

CERTIFICATE NUMBER: USA/0350/S-96, Revision 7

ORIGINAL REGISTRANT(S):

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