



U.S. Department
of Transportation

Pipeline and
Hazardous Materials
Safety Administration

IAEA CERTIFICATE OF COMPETENT AUTHORITY
SPECIAL FORM RADIOACTIVE MATERIALS

CERTIFICATE USA/0357/S, REVISION 12

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

This certifies that the sources described have 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) source capsule Models 3203 and 3214.
2. Source Description - Cylindrical single encapsulations made of Type 304 or 304L stainless steel, with a 0.05 mm (0.002 in.) thick window at one end, and fusion seal welded. Approximate outer dimensions are 7.9 mm (0.312 in.) in diameter and 5.1 mm (0.2 in.) in length. Construction shall be in accordance with attached EZIP Drawing No. 3203, Rev. G, Sheet 3 of 6 (Model 3203); or Isotope Products Laboratories Drawing No. A3214, Rev. A (Model 3214).
3. Radioactive Contents - The sources described by this certificate are authorized to contain any one of the following radionuclides limited to the activity shown. The radionuclides are in the form of chlorides, nitrates, or oxides in ceramic; oxides in gold or aluminum; or metal plated onto substrate. The Na-22 may also be in the form of NaCl in gold or ceramic. The Ge-68 may also be in the form of GeO₂ in silver. The Sr-90 may also be in the form of SrTiO₄ in silver. The Ba-133 may also be in the form of BaSO₄ in ceramic.

¹ "Regulations for the Safe Transport of Radioactive Material, 2018 Edition, No. SSR-6 (Rev. 1)" 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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<u>Radionuclide</u>	<u>Activity MBq (mCi)</u>	
Na-22	185	(5)
Co-57	11,100	(300)
Co-58	11,100	(300)
Co-60	370	(10)
Ge-68	1,850	(50)
Sr-90	4,625	(125)
Ru-106	1,850	(50)
Ba-133	3,700	(100)
Cs-137	11,100	(300)
Ra-226	1,850	(50)
Lanthanides*	11,100	(300)
Actinides**	1,110	(30)

* (Isotopes of Ce, Pr, Sm, Eu, Gd, Tm, and Yb only)

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

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 September 30, 2030. Previous editions which have not reached their expiration date may continue to be used.

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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 August 26, 2025 petition by Eckert & Ziegler Isotope Products, Valencia, CA, and in consideration of other information on file in this Office.

Certified By:



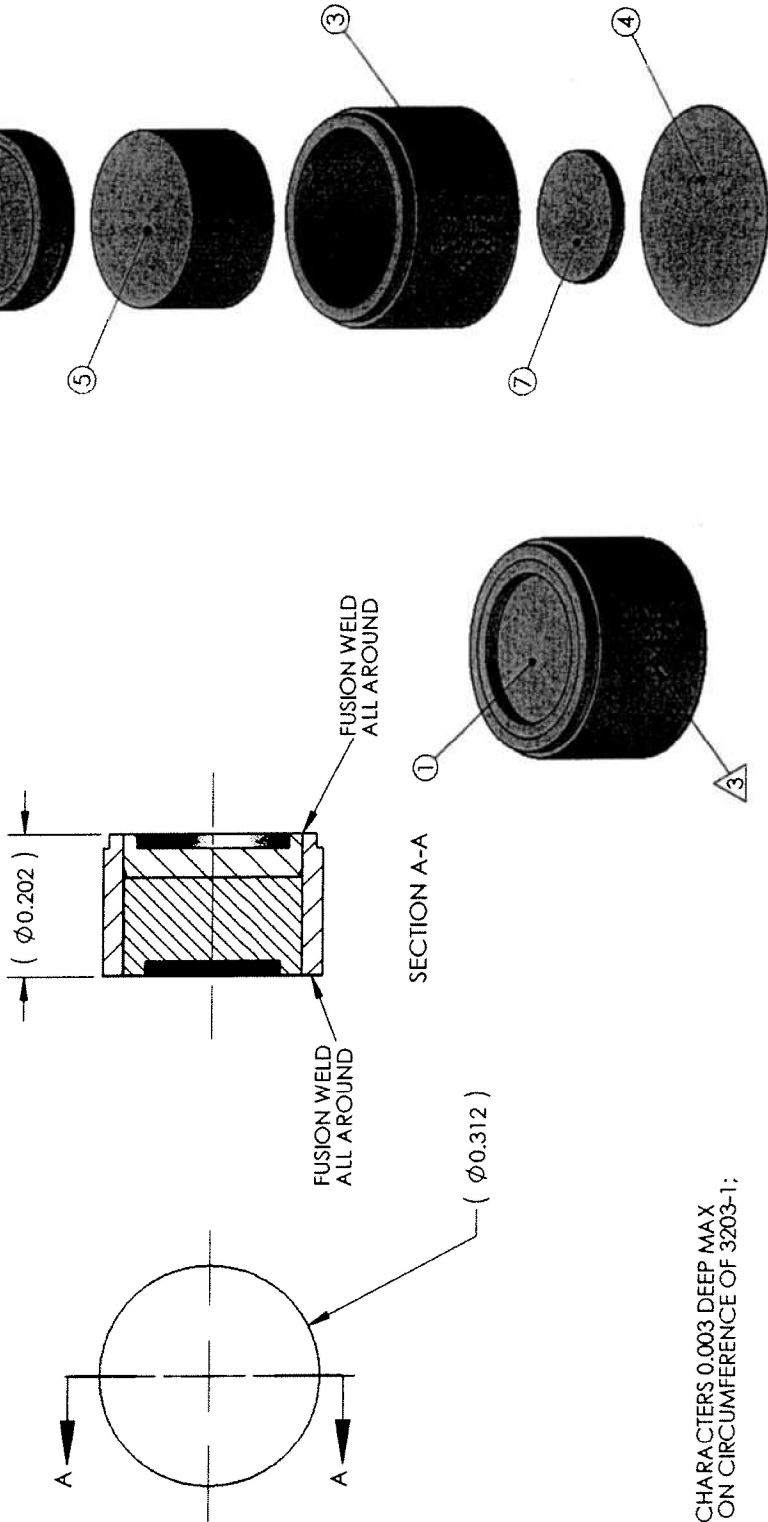
William Quade
Acting Associate Administrator for
Hazardous Materials Safety

September 08,
2025

(DATE)

Revision 12 - Issued to endorse to 2018 edition of the IAEA Regulations for the Safe Transport of Radioactive Material, SSR-6 (Rev. 1) and to extend the expiration date.

X	ACTIVE ELEMENT SIZE	ITEM #	DESCRIPTION
0	0.000" DIA X 0.000" NO HOLE	1	ASSEMBLY
1	0.125" DIA X 0.030"	3	CAPSULE BODY
2	0.187" DIA X 0.020"	4	WINDOW
3	0.210" DIA X 0.040"	5	SHIELD
4	0.250" DIA X 0.040"	6	PLUG
		7	ACTIVE ELEMENT



ENGRAVE CHARACTERS 0.003 DEEP MAX
CENTERED ON CIRCUMFERENCE OF 3203-1;

IPL
ISOTOPE
ACTIVITY

SERIAL NUMBER

2. PACKAGE AND IDENTIFY PART NUMBER THERE ON
1. ASSEMBLE PER ENGINEERING DRAWING

NOTES: UNLESS OTHERWISE SPECIFIED



Eckert & Ziegler

Isotope Products

VALENCIA, CALIFORNIA 91355

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.

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 (I) N/A
X. ± .1 INCH SURFACE ROUGHNESS (INCH MAX)
ALL DIMENSIONS ARE FINISHED DIMENSIONS

THIRD ANGLE PROJECTION



DRAWN
KP

ME/CHECKER
EZ

ENGINEER
EZ

SCALE
NONE

SIZE
A

TITLE

MODEL 3203 GFS-3 SOURCE

SERIES TITLE

GFS AND XFB SOURCES (PHI & BFI)

CAGE CODE

32993

DRAWING NO.

3203

REV

G

SHEET

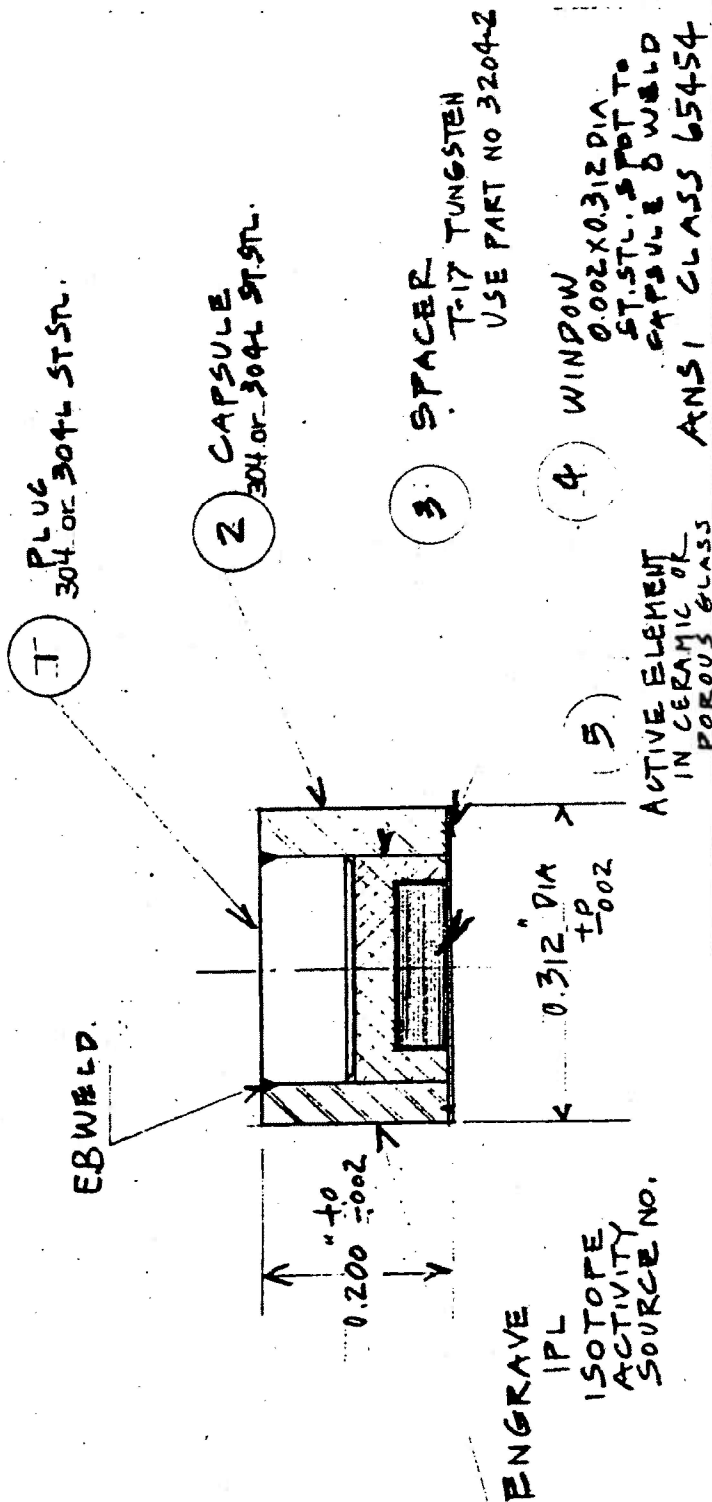
3 OF 6

P/N A3203-X ASSEMBLY

GROUP #1



ACTUAL SIZE



ISOTOPE PRODUCTS LABORATORIES

BURBANK, CALIFORNIA 91504

SCALE: 5 TO 1	APPROVED BY:	DRAWN BY: E.W.
DATE: 2-26-87		REVISED: A 9/15/88
LOW ENERGY X RAY SOURCE.		
GFS-3		
GFS AND XFB SOURCES		DRAWING NUMBER A3214

Edw 2-26-87
 3/3/87
 JAC 3-3-87



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

CERTIFICATE NUMBER: USA/0357/S-96

ORIGINAL REGISTRANT(S) :

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

Boeing
P.O. Box 3707
M/S 6Y-38
Seattle, WA, 98124
USA