



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/0748/S-96, REVISION 4

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 and Ziegler Isotope Products Models P13, P17, and P17-1.
2. Source Description - Cylindrical double encapsulations made of Type 321 stainless steel and fusion seal welded. Approximate outer dimensions are 12.7 mm (0.5 in.) in diameter and 19.1 mm (0.75 in.) in length. Construction shall be in accordance with attached Eckert & Ziegler Isotope Products Drawing No. 3030-REG, Model P17/13 Gamma Source, Rev. --, Sheets 1-3 of 3.
3. Radioactive Contents - No more than either 370 GBq (10 Ci) of Cesium-137 or 185 GBq (5 Ci) of Cobalt-60. The Cs-137 and Co-60 are in the form of a chloride, nitrate, or oxide in ceramic; or oxides in metal matrix.
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.

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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5. Expiration Date - This certificate expires on March 31, 2027. 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 February 23, 2022 petition by Eckert & Ziegler Isotope Products, Valencia, CA, and in consideration of other information on file in this Office.

Certified By:

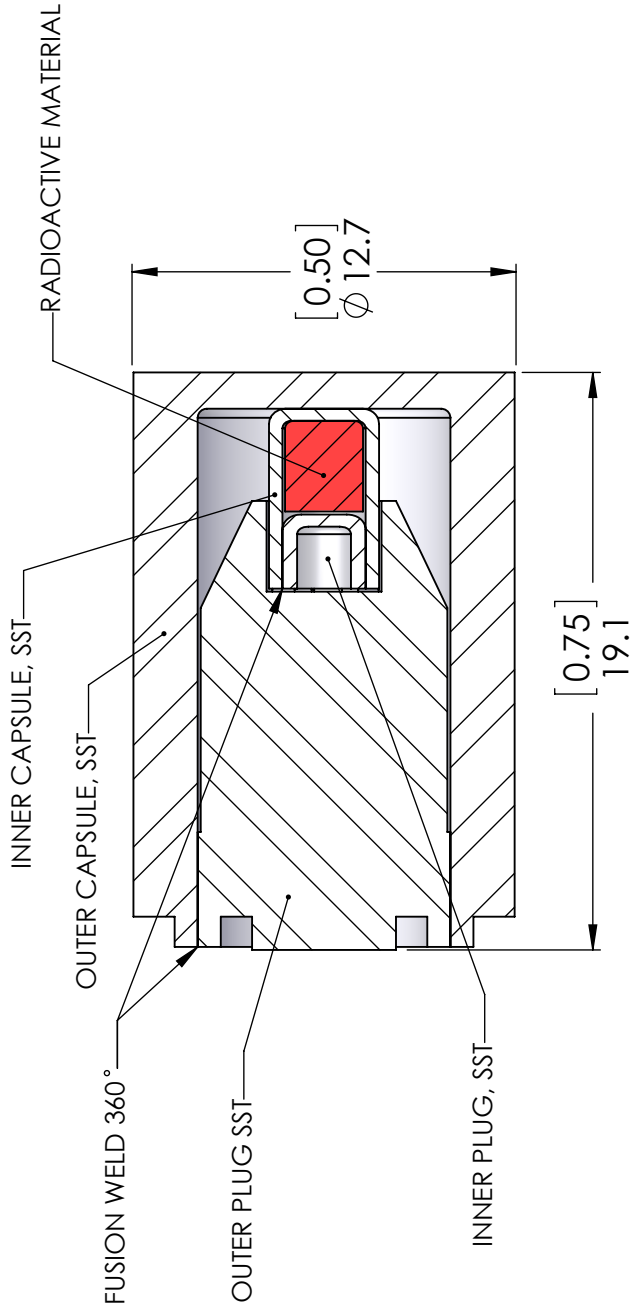


April 04, 2022
(DATE)

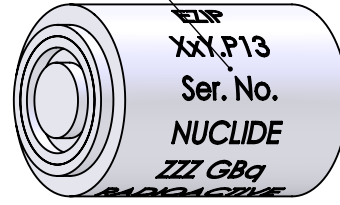
WJS

William Schoonover
Associate Administrator for Hazardous
Materials Safety

Revision 4 - Issued to extend the expiration date.

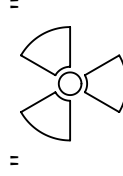


SECTION VIEW



MODEL VIEW
(NOT TO SCALE)

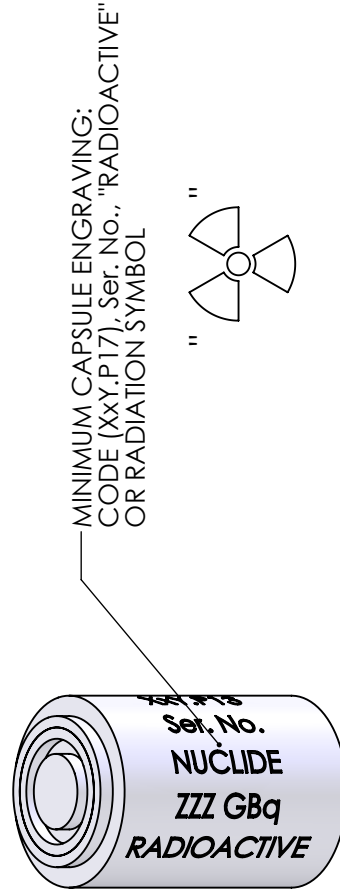
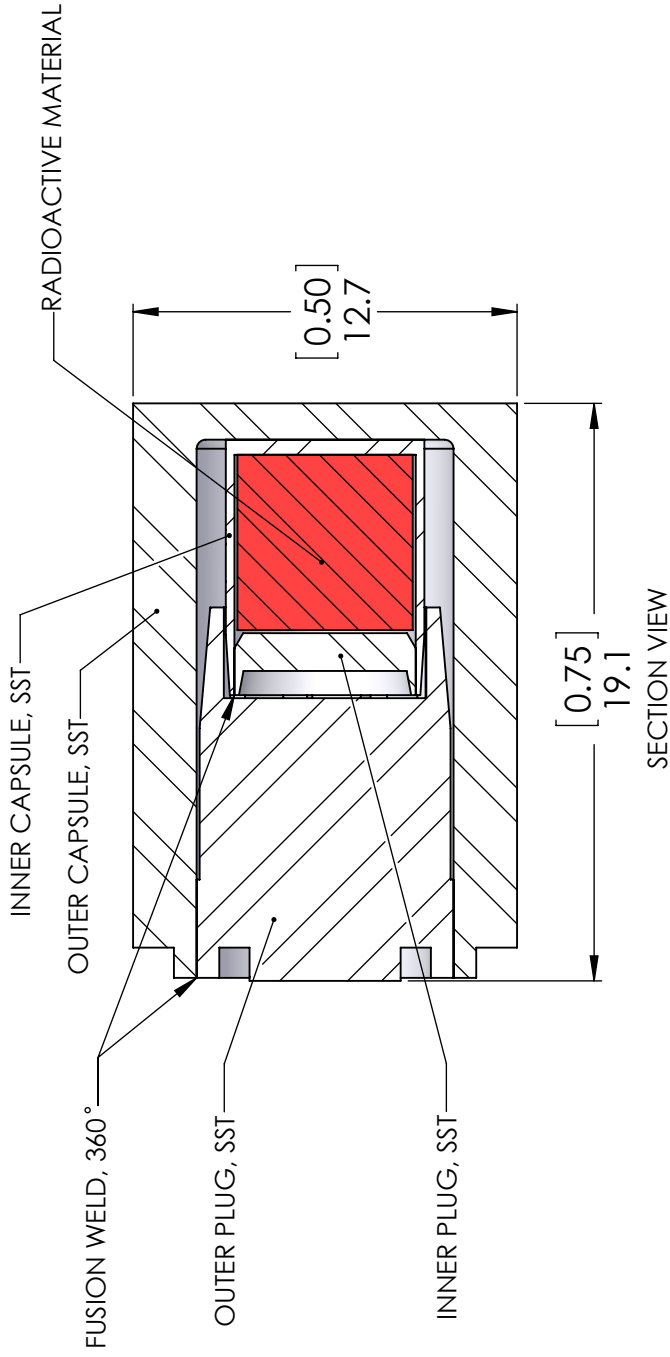
MINIMUM CAPSULE ENGRAVING:
CODE [XXY,P13], Ser. No., "RADIOACTIVE"
OR RADIATION SYMBOL



2. PACKAGE AND IDENTIFY PART NUMBER THEREON
1. ASSEMBLE AND WELD PER ENGINEERING DRAWING
NOTES: UNLESS OTHERWISE SPECIFIED

A3030-1: MODEL P13 GAMMA SOURCE


Eckert & Ziegler Isotope Products VALENCIA, CALIFORNIA 91355 <small>THIS DRAWING IS THE PROPERTY OF ECKERT & ZIEGLER ISOTOPE PRODUCTS AND MAY NOT BE USED, REPRODUCED, PUBLISHED OR DISCLOSED TO OTHERS WITHOUT EXPRESS AUTHORIZATION BY ECKERT & ZIEGLER ISOTOPE PRODUCTS.</small>	CAGE CODE	32993	DRAWING SIZE	LETTER	DRAWN		TITLE		
	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCH SIZES. METRIC UNITS [mm] ARE IN MILLIMETERS.					JR	MODEL P17/P13 GAMMA SOURCE		
TOLERANCES (UNLESS OTHERWISE SPECIFIED)					ENGINEER	ME/CHECKER		SERIES TITLE	
X.XXX	±	.002	INCH	ANGULAR TOLERANCE OF 0°±30'	EZ	EZ		INDUSTRIAL SOURCES HIGH INTENSITY GAMMA AND NEUTRON	
X.XX	±	.005	INCH	FRACTIONAL DIMENSIONS ± 1/32"	SCALE		DRAWING NO.		
X.X	±	.03	INCH	REFERENCE DIMENSIONS (I) N/A	2:1		REV		
X.	±	.1	INCH	SURFACE ROUGHNESS (INCH) MAX			3030-REG		
								SHEET	
								1 OF 3	

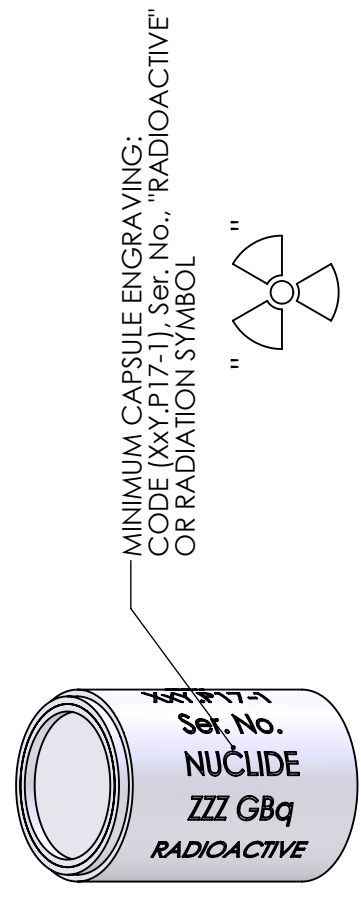
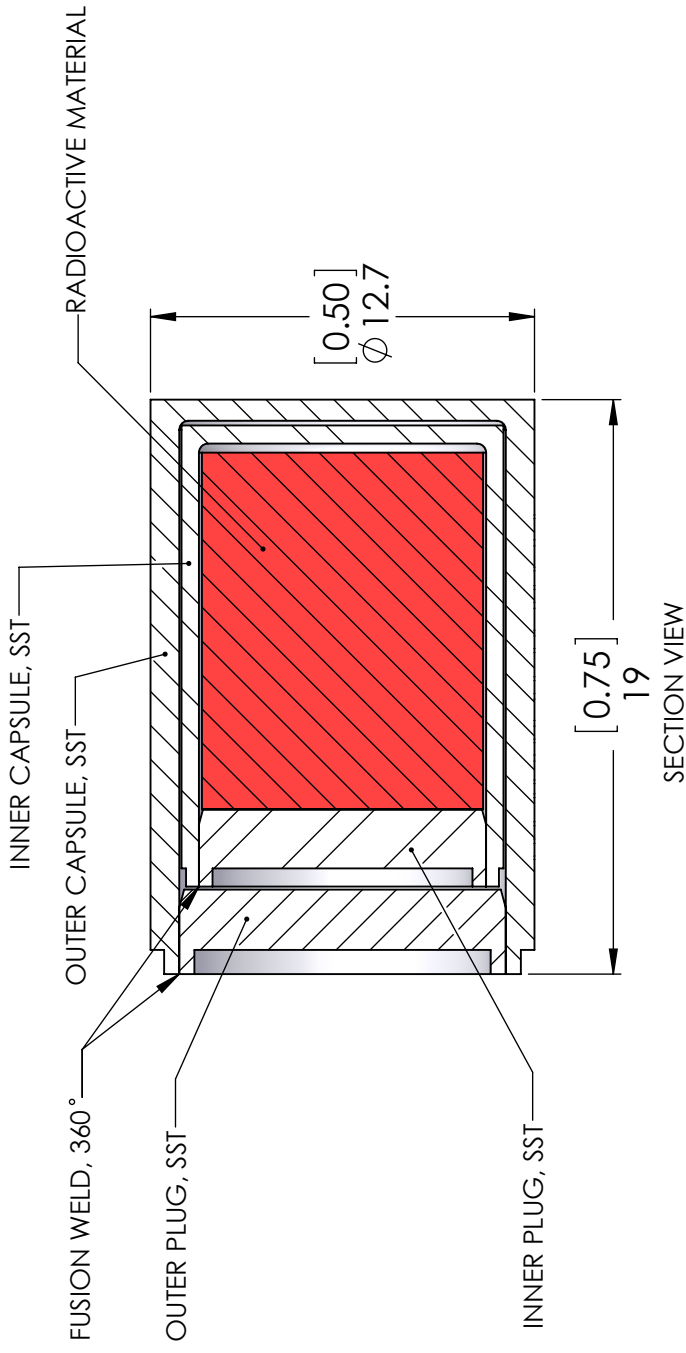


MODEL VIEW
(NOT TO SCALE)

2. PACKAGE AND IDENTIFY PART NUMBER THEREON
1. ASSEMBLE AND WELD PER ENGINEERING DRAWING
NOTES: UNLESS OTHERWISE SPECIFIED

A3030-2: MODEL P17 GAMMA SOURCE

 Eckert & Ziegler Isotope Products <small>VALENCIA, CALIFORNIA 91355</small>	CAGE CODE	32993	DRAWING SIZE	LETTER	DRAWN	TITLE	
	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCH SIZES. METRIC UNITS [mm] ARE IN MILLIMETERS.				JR	MODEL P17/P13 GAMMA SOURCE	
<small>THIS DRAWING IS THE PROPERTY OF ECKERT & ZIEGLER ISOTOPE PRODUCTS AND MAY NOT BE USED, REPRODUCED, PUBLISHED OR DISCLOSED TO OTHERS WITHOUT EXPRESS AUTHORIZATION BY ECKERT & ZIEGLER ISOTOPE PRODUCTS.</small>	TOLERANCES (UNLESS OTHERWISE SPECIFIED)		ENGINEER	EZ	SERIES TITLE		
	X.XXX ± .002 INCH	ANGULAR TOLERANCE OF 0°±30'	EZ		INDUSTRIAL SOURCES HIGH INTENSITY		
	X.XX ± .005 INCH	FRACTIONAL DIMENSIONS ± 1/32"	SCALE		GAMMA AND NEUTRON		
	X.X ± .03 INCH	REFERENCE DIMENSIONS (I) N/A	2:1		DRAWING NO.	REV	SHEET
X. ± .1 INCH	SURFACE ROUGHNESS (INCH) MAX			3030-REG	--	2 OF 3	



MODEL VIEW
(NOT TO SCALE)

2. PACKAGE AND IDENTIFY PART NUMBER THEREON
1. ASSEMBLE AND WELD PER ENGINEERING DRAWING
NOTES: UNLESS OTHERWISE SPECIFIED

A3030-3: MODEL P17-1 GAMMA SOURCE

Eckert & Ziegler Isotope Products <small>VALENCIA, CALIFORNIA 91355</small> <small>THIS DRAWING IS THE PROPERTY OF ECKERT & ZIEGLER ISOTOPE PRODUCTS AND MAY NOT BE USED, REPRODUCED, PUBLISHED OR DISCLOSED TO OTHERS WITHOUT EXPRESS AUTHORIZATION BY ECKERT & ZIEGLER ISOTOPE PRODUCTS.</small>	CAGE CODE 32993 <small>UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCH SIZES. METRIC UNITS [mm] ARE IN MILLIMETERS.</small>	DRAWING SIZE LETTER <small>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)</small>	DRAWN JR ME/CHECKER EZ ENGINEER EZ SCALE 2:1	TITLE MODEL P17/P13 GAMMA SOURCE
	SERIES TITLE INDUSTRIAL SOURCES HIGH INTENSITY GAMMA AND NEUTRON		DRAWING NO. 3030-REG REV --	SHEET 3 OF 3



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CERTIFICATE NUMBER: USA/0748/S-96

ORIGINAL REGISTRANT(S) :

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