



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

**IAEA CERTIFICATE OF COMPETENT AUTHORITY
SPECIAL FORM RADIOACTIVE MATERIALS
CERTIFICATE USA/0748/S-96, REVISION 3**

East Building, PHH-23
1200 New Jersey Avenue Southeast
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 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. 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 May 31, 2022.

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.

CERTIFICATE USA/0748/S-96, REVISION 3


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 April 14, 2017 petition by Eckert & Ziegler Isotope Products, Valencia, CA, and in consideration of other information on file in this Office.

Certified By:

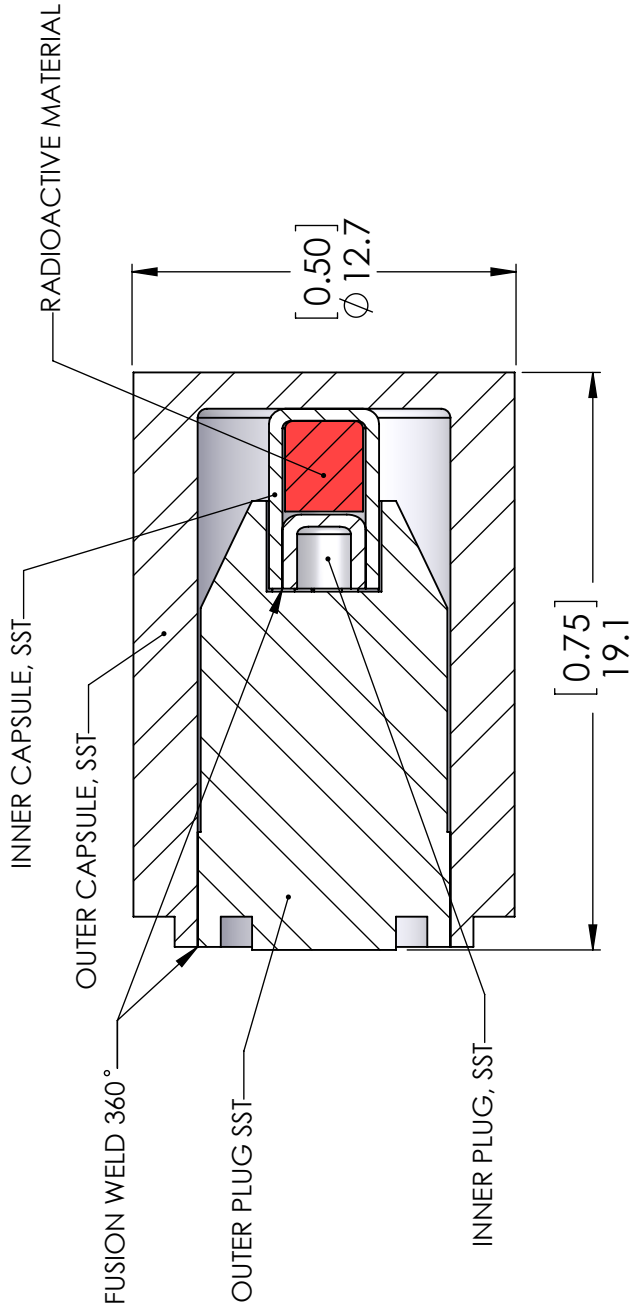


Jun 02 2017

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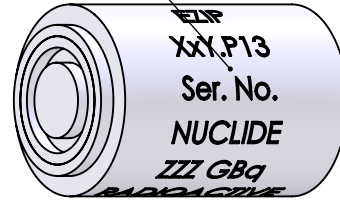
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William Schoonover
Acting Associate Administrator for Hazardous Materials Safety

Revision 3 - Issued to extend the expiration date and update drawings.



SECTION VIEW


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

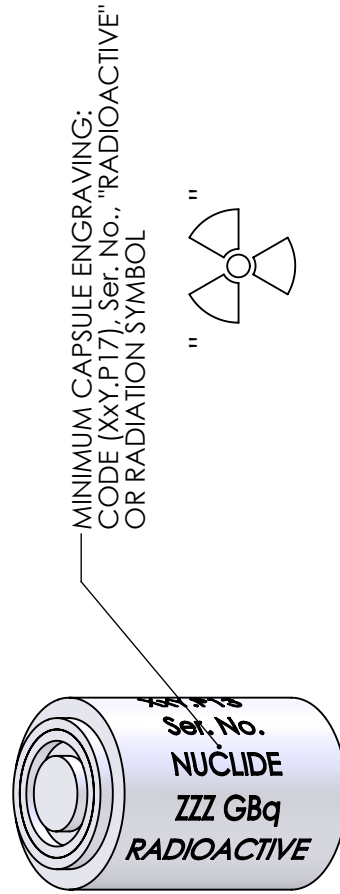
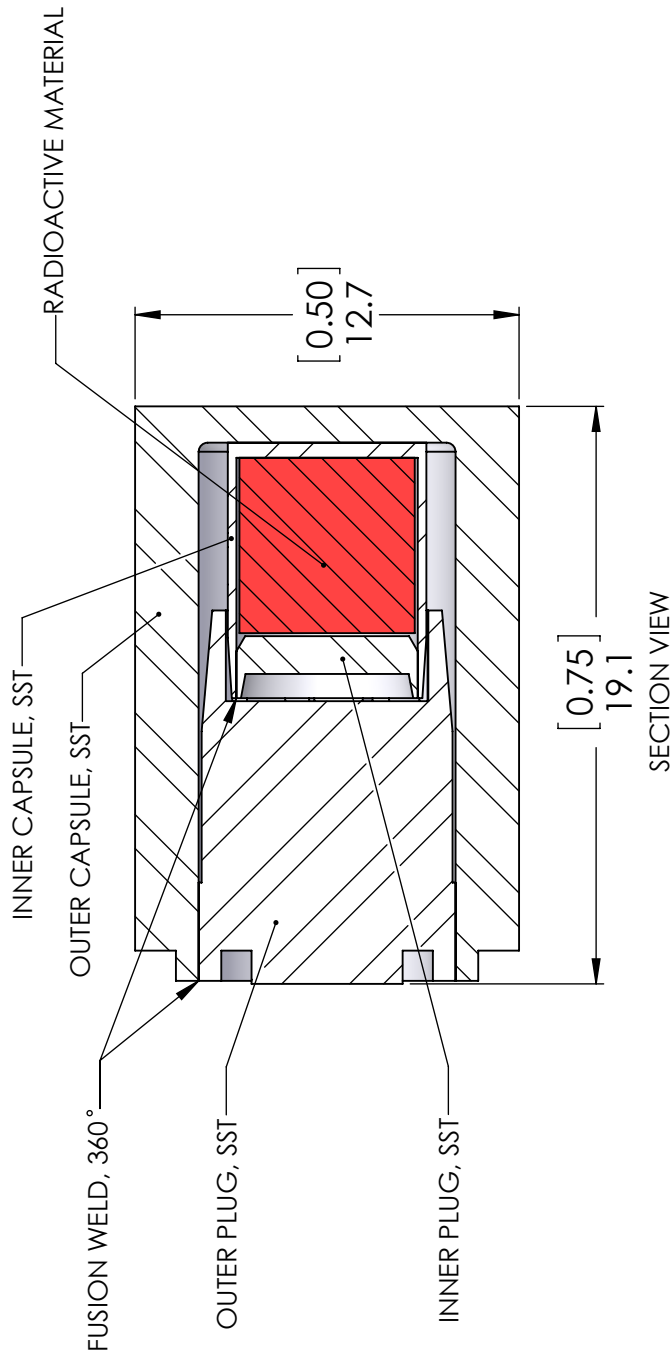


MODEL VIEW
(NOT TO SCALE)

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 <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 (II) 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 1 OF 3
	2. PACKAGE AND IDENTIFY PART NUMBER THEREON 1. ASSEMBLE AND WELD PER ENGINEERING DRAWING NOTES: UNLESS OTHERWISE SPECIFIED		MODEL VIEW (NOT TO SCALE)		A3030-1: MODEL P13 GAMMA SOURCE	

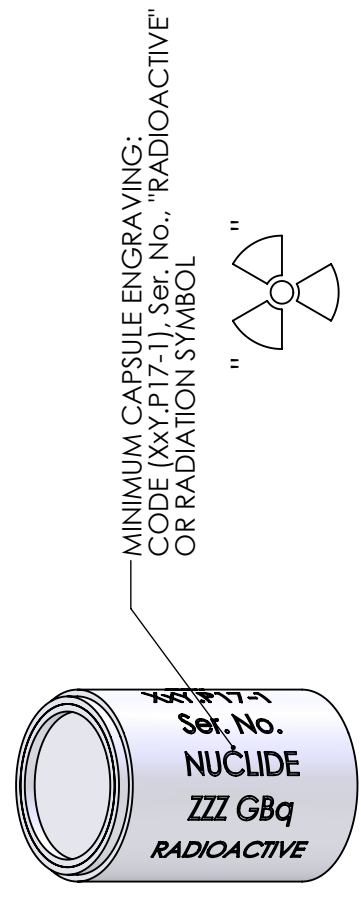
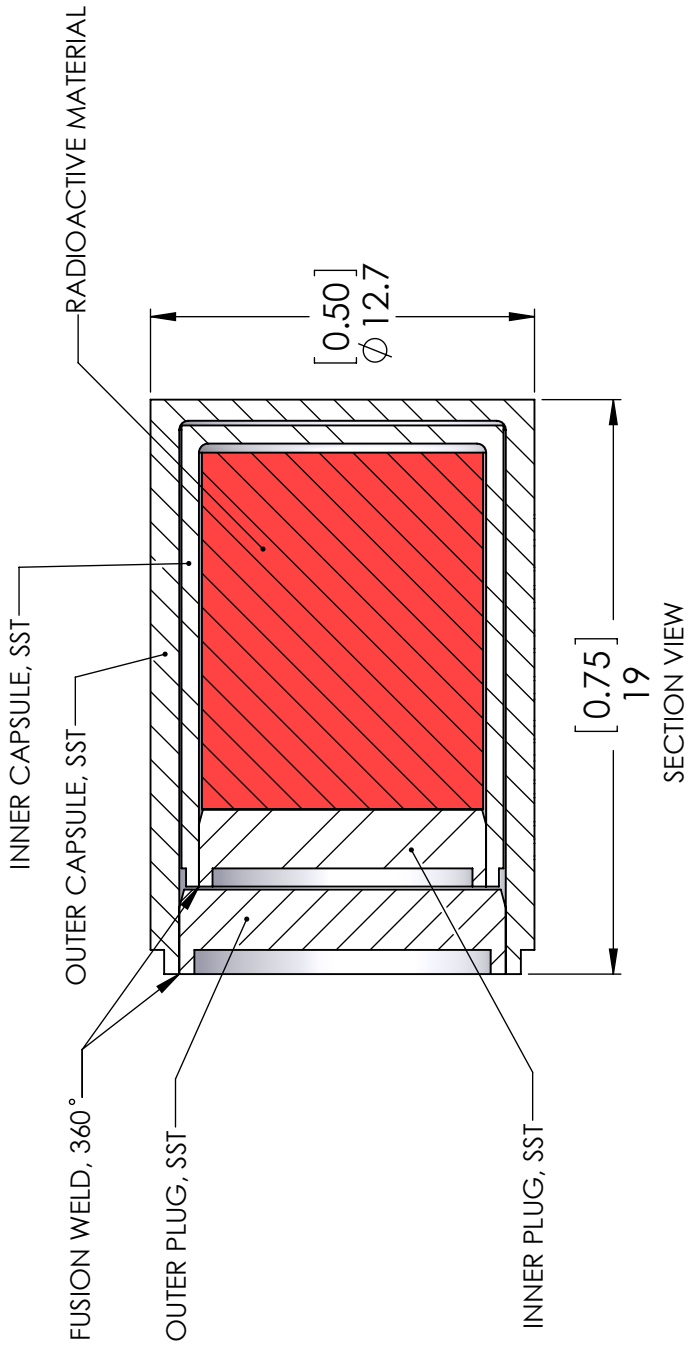


MODEL VIEW
(NOT TO SCALE)

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 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	JR	TITLE	MODEL P17/P13 GAMMA SOURCE
	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCH SIZES. METRIC UNITS [mm] ARE IN MILLIMETERS.				ME/CHECKER	EZ	SERIES TITLE INDUSTRIAL SOURCES HIGH INTENSITY GAMMA AND NEUTRON	
TOLERANCES (UNLESS OTHERWISE SPECIFIED) X.XXX ± .002 INCH ANGULAR TOLERANCE OF 0°-430' X.XX ± .005 INCH FRACTIONAL DIMENSIONS ± 1/32" X.X ± .03 INCH REFERENCE DIMENSIONS (I/N/A) X. ± .1 INCH SURFACE ROUGHNESS (INCH MAX)				ENGINEER	EZ	DRAWING NO. 3030-REG		
				SCALE	2:1	REV	--	SHEET 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 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	ME/CHECKER	MODEL P17/P13 GAMMA SOURCE
TOLERANCES (UNLESS OTHERWISE SPECIFIED)				ENGINEER	EZ	SERIES TITLE	
X.XXX	± .002	INCH	ANGULAR TOLERANCE OF 0°-±30'	EZ	INDUSTRIAL SOURCES HIGH INTENSITY		DRAWING NO.
X.XX	± .005	INCH	FRACTIONAL DIMENSIONS ± 1/32"	SCALE	GAMMA AND NEUTRON		
X.X	± .03	INCH	REFERENCE DIMENSIONS (I) N/A	2:1	3030-REG	--	SHEET
X.	± .1	INCH	SURFACE ROUGHNESS (I) INCH MAX				3 OF 3



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Hazardous Materials
Safety Administration**

CERTIFICATE NUMBER: USA/0748/S-96, Revision 3

ORIGINAL REGISTRANT(S):

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Regulatory Affairs Manager
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