



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

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<sup>1</sup> "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.

<sup>2</sup> 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:



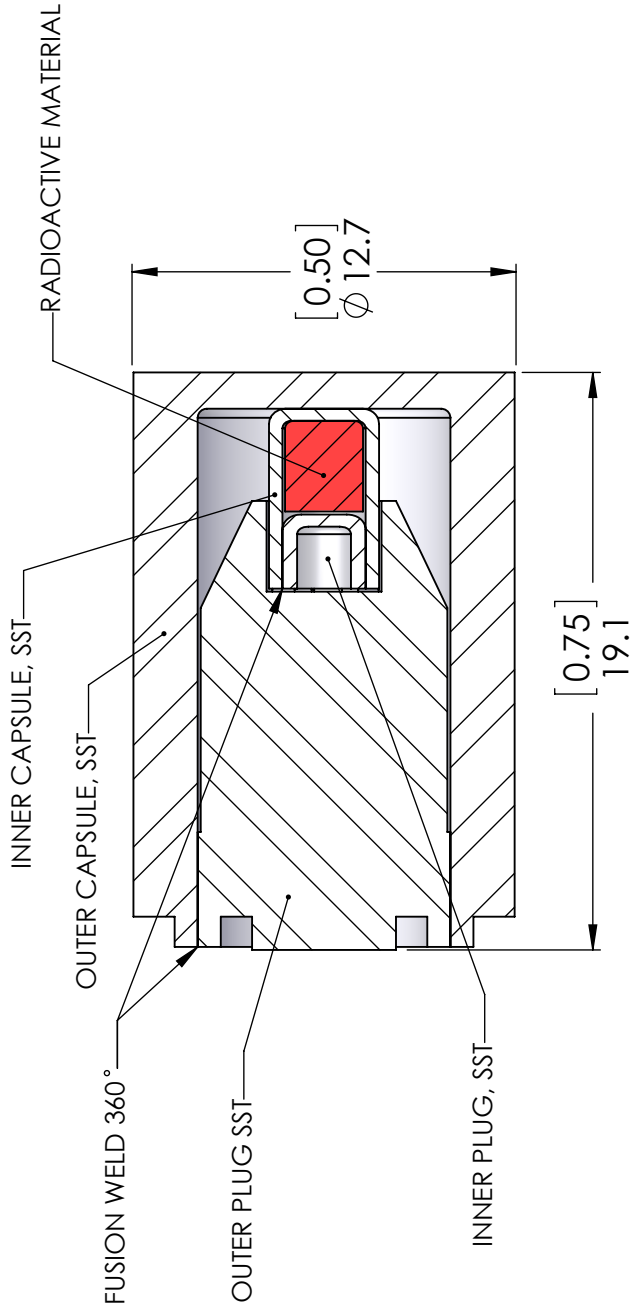
**Jun 02 2017**

(DATE)

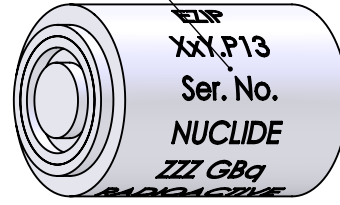
 William Schoonover

Acting Associate Administrator for Hazardous Materials Safety

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

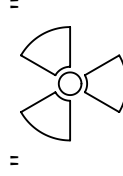


SECTION VIEW




MODEL VIEW  
(NOT TO SCALE)

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

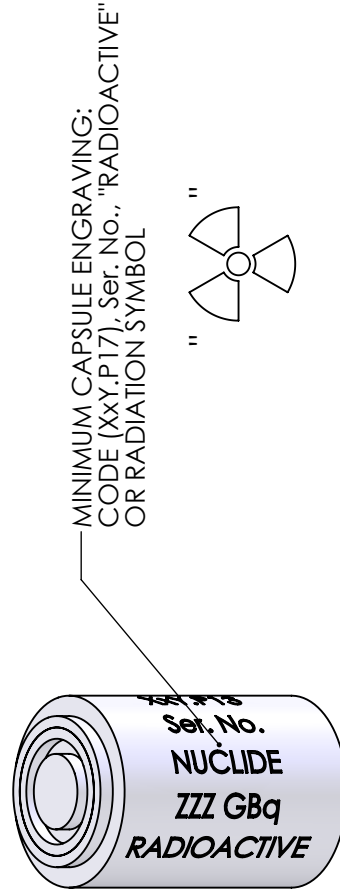
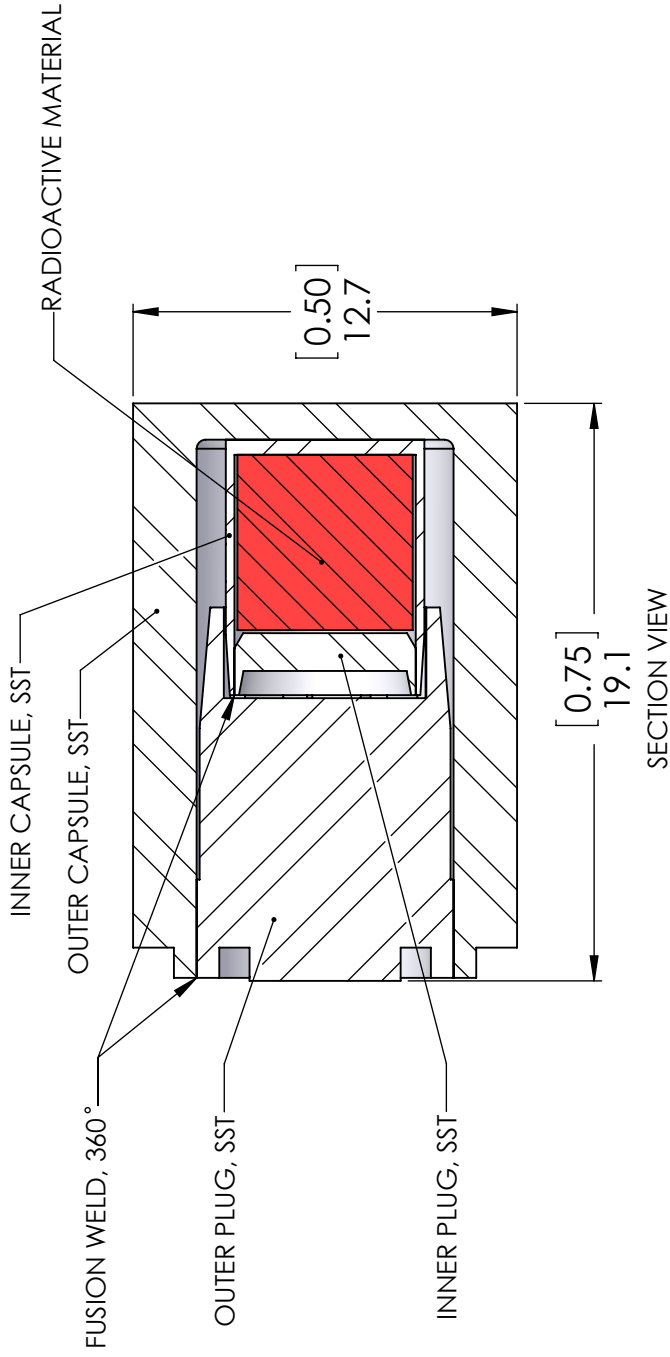


2. PACKAGE AND IDENTIFY PART NUMBER THEREON  
1. ASSEMBLE AND WELD PER ENGINEERING DRAWING  
NOTES: UNLESS OTHERWISE SPECIFIED

A3030-1: MODEL P13 GAMMA SOURCE

 <b>Eckert &amp; Ziegler</b> <b>Isotope Products</b>	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) 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)			ENGINEER	EZ	SERIES TITLE		INDUSTRIAL SOURCES HIGH INTENSITY GAMMA AND NEUTRON
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.			SCALE	2:1	DRAWING NO.	REV	SHEET
					3030-REG	--	1 OF 3


VALENCIA, CALIFORNIA 91355

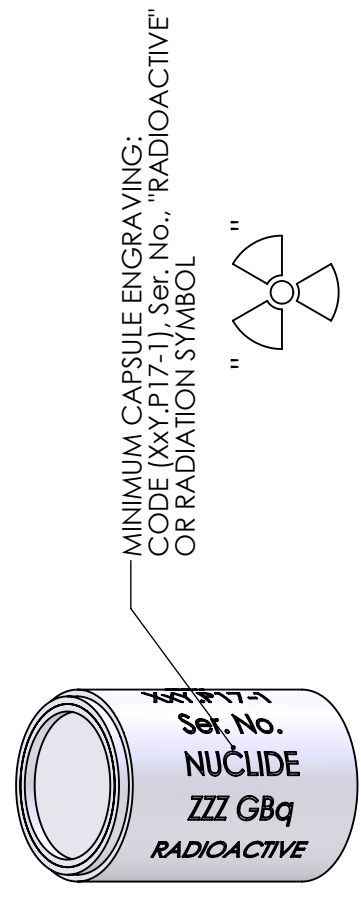
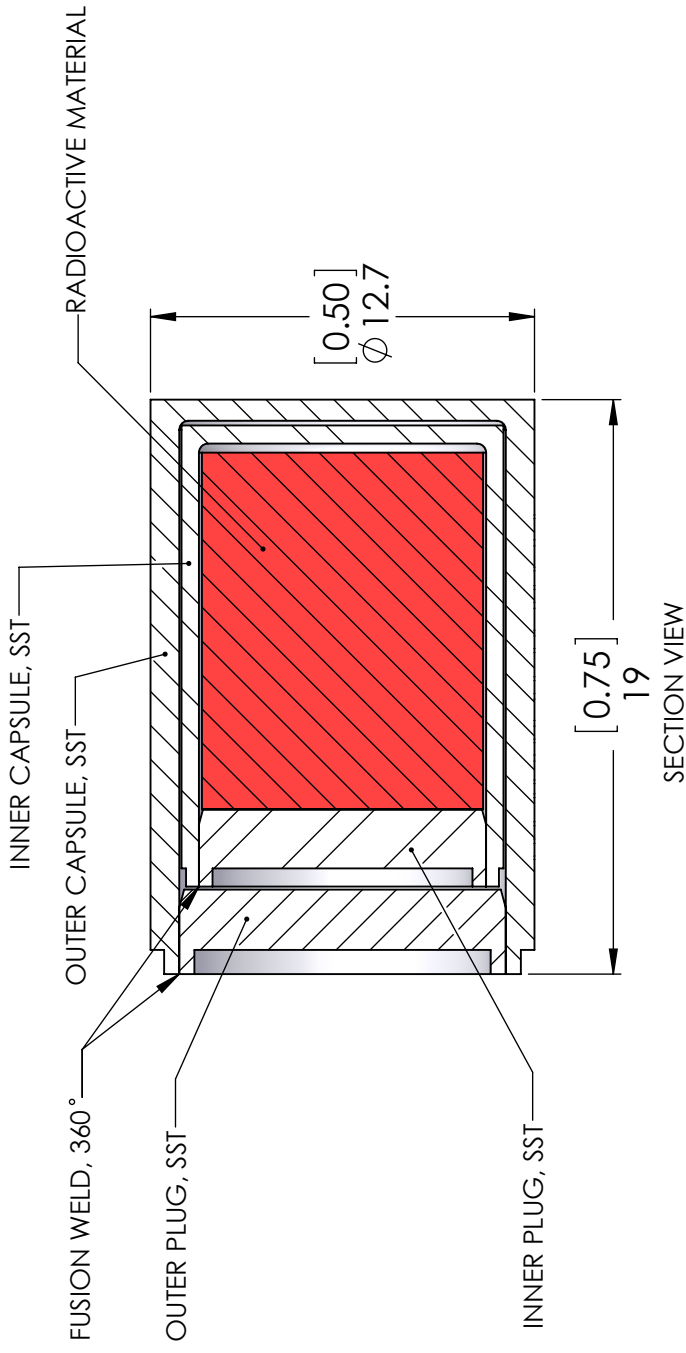


MODEL VIEW  
(NOT TO SCALE)

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

A3030-2: MODEL P17 GAMMA SOURCE


 <b>Eckert &amp; Ziegler</b> <b>Isotope Products</b> VALENCIA, CALIFORNIA 91355	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
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.	TOLERANCES (UNLESS OTHERWISE SPECIFIED)				ME/CHECKER	SERIES TITLE	
	X.XXX ± .002 INCH				EZ	INDUSTRIAL SOURCES HIGH INTENSITY GAMMA AND NEUTRON	
	X.XX ± .005 INCH				ENGINEER	DRAWING NO.	REV
	X.X ± .03 INCH				SCALE	3030-REG	--
X. ± .1 INCH					2:1	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

 <b>Eckert &amp; Ziegler</b> <b>Isotope Products</b> VALENCIA, CALIFORNIA 91355 <small>THIS DRAWING IS THE PROPERTY OF ECKERT &amp; ZIEGLER ISOTOPE PRODUCTS AND MAY NOT BE USED, REPRODUCED, PUBLISHED OR DISCLOSED TO OTHERS WITHOUT EXPRESS AUTHORIZATION BY ECKERT &amp; 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 <b>MODEL P17/P13 GAMMA SOURCE</b> SERIES TITLE <b>INDUSTRIAL SOURCES HIGH INTENSITY GAMMA AND NEUTRON</b>	DRAWING NO. 3030-REG REV -- SHEET 3 OF 3
	MODEL P17/P13 GAMMA SOURCE INDUSTRIAL SOURCES HIGH INTENSITY GAMMA AND NEUTRON		3030-REG -- 3 OF 3		



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

**ORIGINAL REGISTRANT(S):**

Ms. Frida Tan  
Regulatory Affairs Manager  
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Valencia, 91355  
USA