



U.S. Department  
of Transportation

Research and  
Special Programs  
Administration

IAEA CERTIFICATE OF COMPETENT AUTHORITY  
SPECIAL FORM RADIOACTIVE MATERIALS  
CERTIFICATE NUMBER USA/0415/S, REVISION 1


400 Seventh Street, S.W.  
Washington, D.C. 20590

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 and the United States of America for the transport of radioactive materials.

1. Source Identification - GE Process Irradiator Source.
2. Source Description - The source described by this certificate is a fusion welded double encapsulation constructed of 300 Series stainless steel with external dimensions of 9.65 mm (0.30") in diameter x 452 mm (17.8") in length. General Electric drawing no. 183C8167 is attached.
3. Radioactive Contents - This source consists of not more than 740 TBq (20,000 Ci) of Co-60 in the form of metal rods or pellets.
4. Quality Assurance - Records of Quality Assurance activities required by Paragraph 209 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 and consignees in the United States exporting or importing shipments under this certificate shall satisfy the requirements of Subpart H of 10 CFR 71.
5. Expiration Date - This certificate expires December 1, 1999.

This certificate is issued in accordance with paragraph 703 of the IAEA Regulations and Section 173.476 of Title 49 of the Code of Federal Regulations, in response to the petition and information dated October 25, 1994 submitted by General Electric Company, Pleasanton, CA, and in consideration of other information on file in this Office.

Certified by:

  
James K. O'Steen, Director  
Office of Hazardous Materials  
Technology

DEC 29 1994

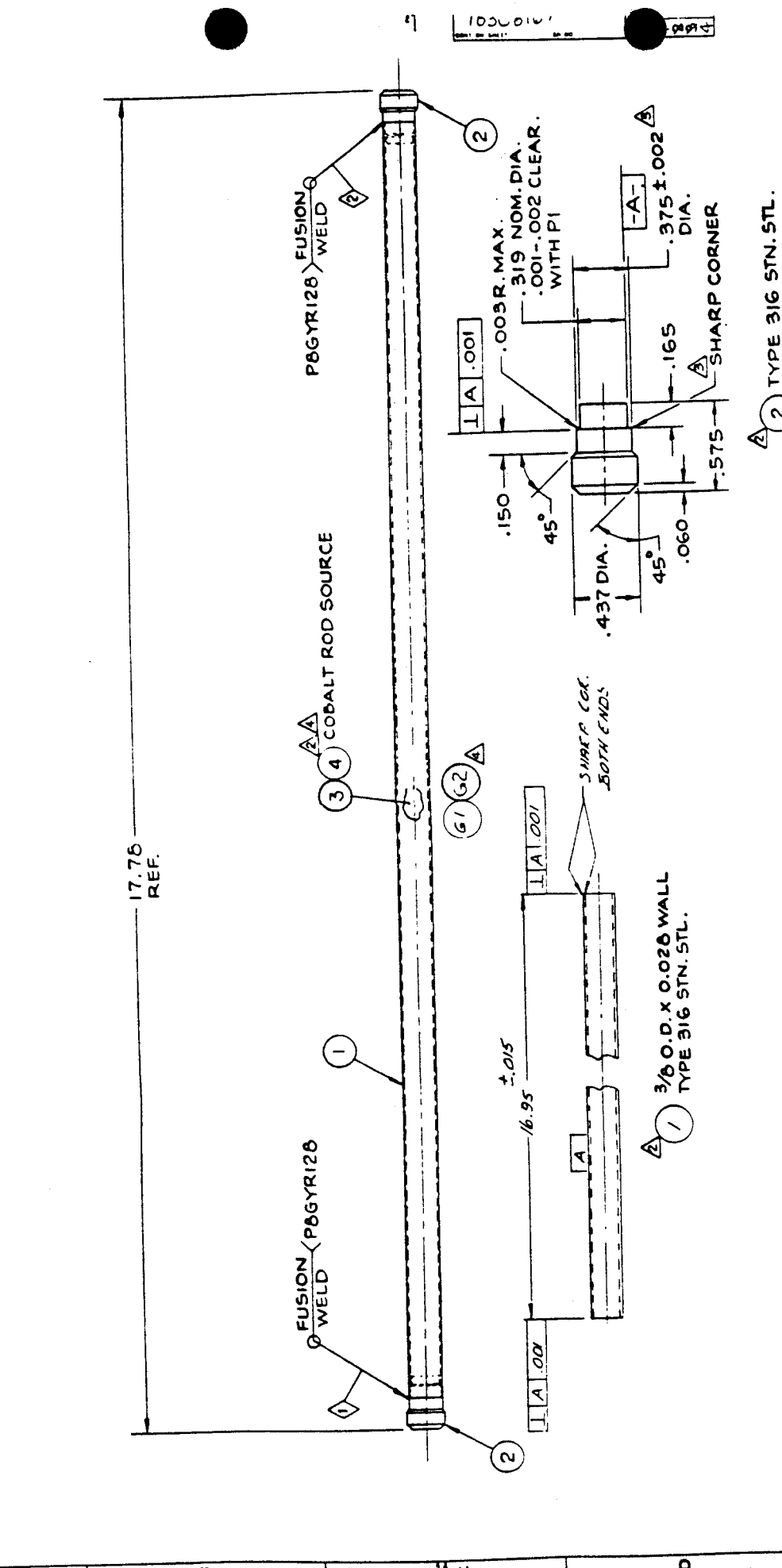
(DATE)

Revision 1 - Issued to upgrade the certificate to the 1985 IAEA Standards and to extend the expiration date.

1 "Safety Series No. 6, Regulations for the Safe Transport of Radioactive Materials, 1985 Edition, as amended 1990" , published by the International Atomic Energy Agency (IAEA), Vienna, Austria.

2 Title 49, Code of Federal Regulations, Parts 100 - 199, United States of America.

UNLESS OTHERWISE SPECIFIED USE THE FOLLOWING PRACTICES:	SURFACES		TOLERANCES		FIT		MATERIALS																	
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<table border="1"> <thead> <tr> <th>NAME</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td>G2 G1</td> <td>SEE DETAIL</td> </tr> <tr> <td>1</td> <td>SEE DETAIL</td> </tr> <tr> <td>2</td> <td>SEE DETAIL</td> </tr> <tr> <td>3</td> <td>END PLUG</td> </tr> <tr> <td>4</td> <td>COBALT ROD</td> </tr> <tr> <td>5</td> <td>COBALT ROD SOURCE</td> </tr> <tr> <td>6</td> <td>END ROD SOURCE</td> </tr> </tbody> </table>									NAME	DESCRIPTION	G2 G1	SEE DETAIL	1	SEE DETAIL	2	SEE DETAIL	3	END PLUG	4	COBALT ROD	5	COBALT ROD SOURCE	6	END ROD SOURCE
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REV	BY	DATE	DESCRIPTION
1	ECNNG-4755	10/15/51	REVISED TO 1835C 8167
2	ECNNG-4766	11/15/51	REVISED TO 1835C 8167
3	ECNNG-4793	12/15/51	REVISED TO 1835C 8167
4	ECNNG-5153	1/15/52	REVISED TO 1835C 8167

DATE: 1835C 8167

NOTE: 1. HELIUM LEAK CHECK WELD. LEAK RATE TO BE LESS THAN 2x10<sup>-8</sup> CC/SEC.

2. LIQUID NITROGEN ALCOHOL LEAK TEST WELD.

3. MATERIAL CERTS. REQD.

4. SOURCE IDENT. SYS. TO BE SUPPLIED BY PRODUCT MAX.

5. SOURCE IDENTITY TO BE VIGRETTCHED ON WELD END PLUG WITH 1/8 HIGH FIGURES TWO PLACES: ON END, AND ON CIRCUMFERENCE.