



U.S. Department  
of Transportation  
Research and  
Special Programs  
Administration

IAEA CERTIFICATE OF COMPETENT AUTHORITY  
SPECIAL FORM RADIOACTIVE MATERIALS  
CERTIFICATE NUMBER USA/0539/S, REVISION 0

475 Belmont Street, N.W.  
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 materials.

1. Source Identification - AmBe MJ-17, and AmBe MJ-18.
2. Source Description - The capsules authorized by this certificate are right circular cylinders constructed of Type 304 stainless steel which are sealed with heliarc welds. The AmBe MJ-17 measures 63.3 mm (2.5") in diameter and 140 mm (5.5") in length. The AmBe MJ-18 measures 48.3 mm (1.9") in diameter and 127 mm (5.0") in length. The wall and base thickness of both capsules is 2.6 mm (0.1"). The press fit plug is 12.54 mm (0.5") thick. The AmBe MJ-17 shall be constructed in accordance with Gulf Nuclear drawing no. AmBe MJ-17-001 (attached). The AmBe MJ-18 shall be constructed in accordance with Gulf Nuclear drawing no. AmBe MJ-18-001 (attached).
3. Radioactive Contents - not to exceed 0.76 TBq (20 Ci) of Americium 241 in solid form. In most cases the Americium 241 will be an oxide mixed with beryllium metal powder or other target material used for producing neutrons. In most cases, oxide mixture is contained in source capsules previously certified as special form.
4. Quality Assurance - Records of Quality Assurance activities required by Paragraph 209 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 and consignees in the United States exporting or importing shipments under this certificate shall satisfy the requirements of Subpart B of 19 CFR 11.
5. Expiration Date - This certificate expires June 30, 2003.

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.

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CERTIFICATE USA/0539/5, REVISION 0

This certificate is issued in accordance with paragraph 702 of the IAEA Regulations and section 173.47d of Title 19 of the Code of Federal Regulations, in response to the petition and information dated October 27, 1997 and February 18, 1998 submitted by Gulf Nuclear of Louisiana, Deer Park, TX, and in consideration of other information on file in this Office.

Certified by:

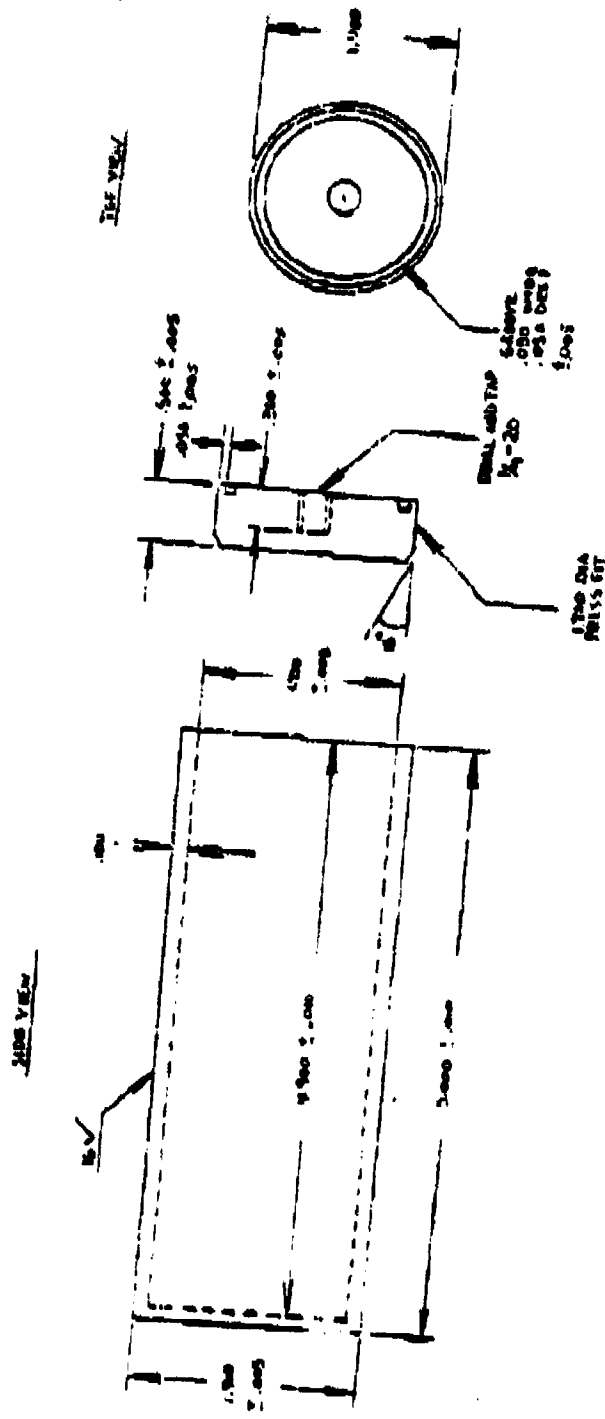
*[Handwritten signature]*

Klan I. Roberts  
Associate Administrator for Hazardous Materials Safety

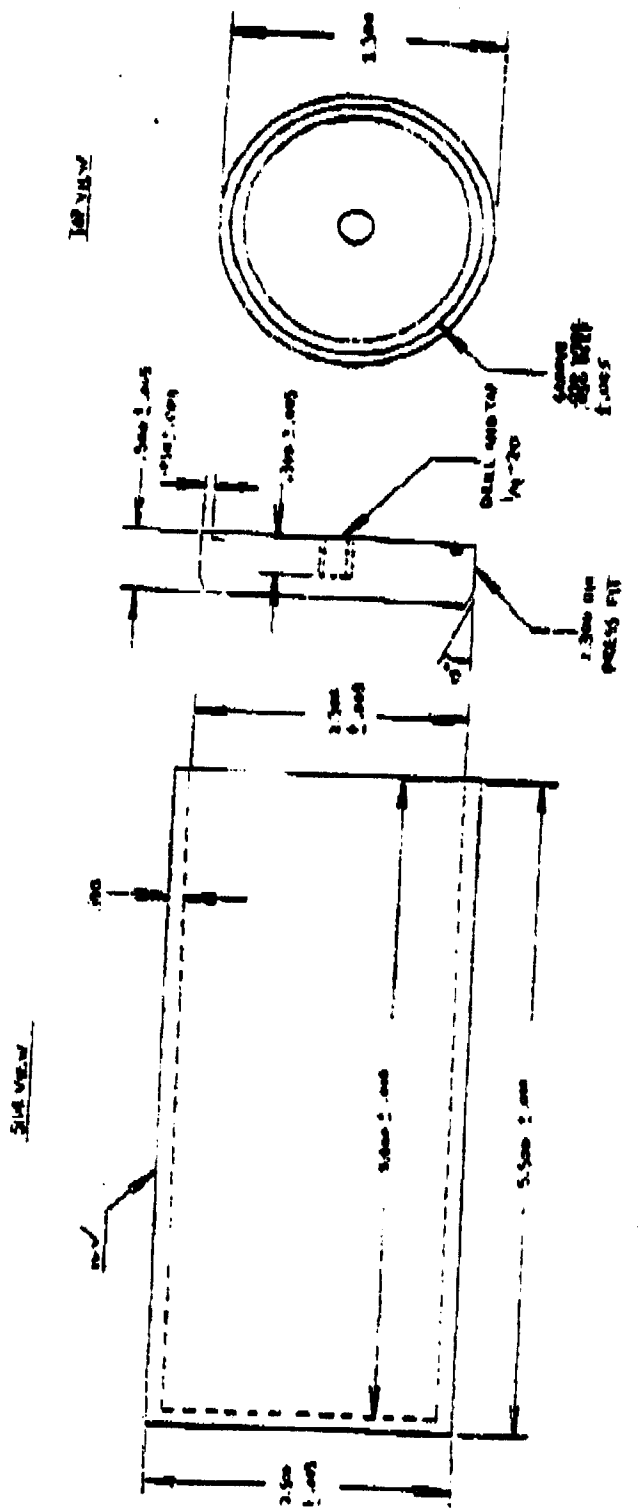
JUN 26 1998

(DATE)

Revision 0 - original issue.



GULF NUCLEAR OF LOUISIANA	MODEL	MATERIALS	SPECIFICATIONS	APPROVED BY:
	AmBe MJ-1S	304 SS	Machine Lid to a Press Fit	M.A. Jaschek
DRAWING NO.: AmBe MJ-IS-001		DATE: 18 February 1998		



GULF NUCLEAR OF LOUISIANA	MODEL	MATERIALS	SPECIFICATIONS	APPROVED BY:
	AmBe MJ-1L	304 SS	Machine Lid to a Press Fit	M.A. Jasciek
DRAWING NO: AmBe MJ-1L-001				Date: 18 February, 1998