



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

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

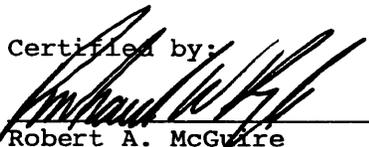
**IAEA CERTIFICATE OF COMPETENT AUTHORITY  
SPECIAL FORM RADIOACTIVE MATERIALS  
CERTIFICATE NUMBER USA/0149/S, REVISION 5**

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<sup>1</sup> and the United States of America<sup>2</sup> for the transport of radioactive materials.

1. Source Identification - Gulf Nuclear Model AmBe 71-2A source capsules manufactured prior to March 8, 1988.
2. Source Description - Source capsule is a welded double encapsulation constructed of stainless steel. The outer capsule measures a minimum of 25.4 mm (1.0 in) in diameter and a maximum of 203 mm (8.0 in) in length. Source capsule must have been constructed in accordance with Gearhart drawing no. 003-4706-014 (attached).
3. Radioactive Contents - The source capsule contains not more than 0.74 TBq (20 Ci) of Americium-241 mixed with beryllium as pellets.
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 H of 10 CFR 71.
5. Expiration Date - This certificate expires August 31, 2005.

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 December 29, 1999 submitted by J. L. Shepherd & Associates, San Fernando, CA, and in consideration of other information on file in this Office.

Certified by:

  
\_\_\_\_\_  
Robert A. McGwire  
Associate Administrator for  
Hazardous Materials Safety

AUG 30 2000

\_\_\_\_\_  
(DATE)

Revision 5 - Issued to upgrade to 1985 IAEA requirements, and to extend the expiration date.

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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.

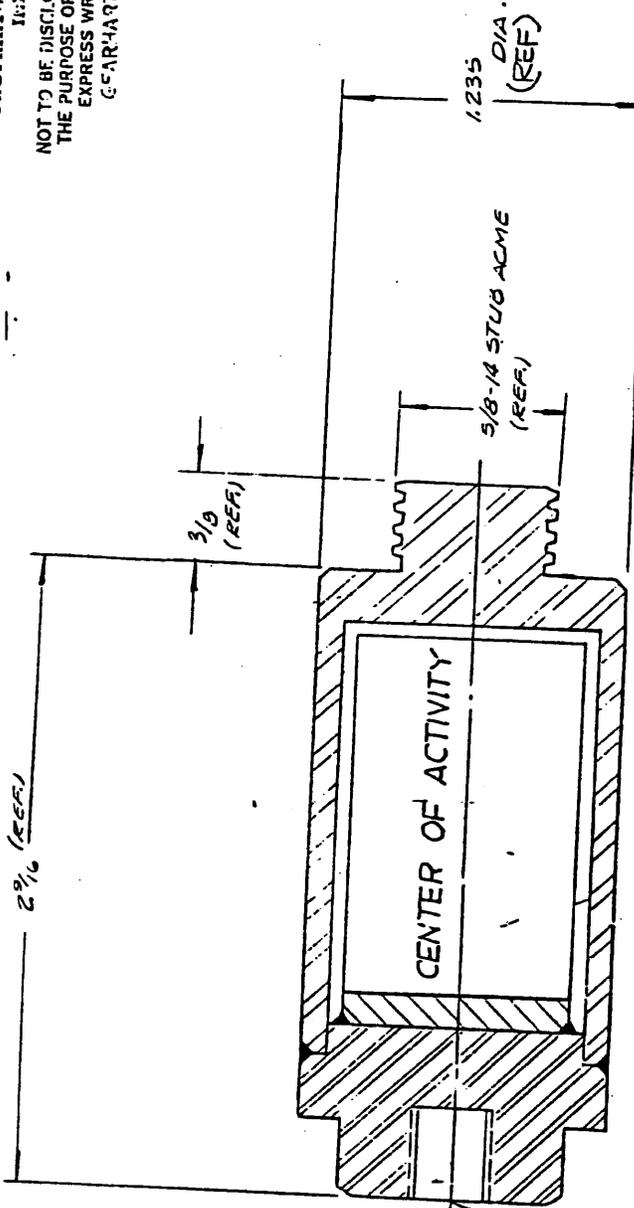
2 Title 49, Code of Federal Regulations, Parts 100 - 199, United States of America.

DWG. NO. 003-4706-014 SH1 REV.

REVISIONS		
REV	DESCRIPTION	DATE
1	ECO 11731	12-3-83

PROPRIETARY & TRADESECRET INFORMATION

NOT TO BE DISCLOSED FOR USE OTHER THAN THE PURPOSE OF YOUR CUSTODY WITHOUT EXPRESS WRITTEN PERMISSION OF GEARHART INDUSTRIES INC.



NOTES:  
 △MAY BE VENDOR FURNISHED FROM GULF NUCLEAR INC.

QTY REQD	CODE IDENT	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	MATERIAL SPECIFICATION
			SOURCE HOLDER ASSY, W/ 20CI AM-241 / BE	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES FRACTIONS & DECIMALS ANGLES TOLERANCES ARE: FRACTIONS ± .005 ANGLES ± .005			CONTRACT NO.	
MATERIAL			APPROVALS	
FINISH			DRAWN	
USED ON			CHECKED	
APPLICATION			ISSUED	
003-4710-001			DATE	
			12-25-75	
			1-1-79	
			10-11-79	
			DWG. NO.	
			003-4706-014	
			REV.	
			1	
			SCALE 2/1	
			SHEET 1/1	

SHOP (G) AM-241/ACCUPRESS ORDER NO. 1474

MAR 13 1984