



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

**IAEA CERTIFICATE OF COMPETENT AUTHORITY
SPECIAL FORM RADIOACTIVE MATERIALS
CERTIFICATE USA/0149/S-96, REVISION 8**

East Building, PHH-23
1200 New Jersey Avenue Southeast
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 Agency¹ and the United States of America² for the transport of radioactive material.

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 203.0 mm (8.0 in.) in length. Source capsule must have been constructed in accordance with attached Gearhart Drawing No. 003-4706-014, Rev. 1.
3. Radioactive Contents - The source capsule contains not more than 0.74 TBq (20.0 Ci) of Americium-241 mixed with beryllium as pellets.
4. Special Conditions -
 - a. This certificate is valid only for one-time transport for disposal of Gulf Nuclear Model AmBe 71-2A source capsules.
 - b. Capsules must have no known or suspected defects.
 - c. Capsules must have a current satisfactory leak test in accordance with license conditions.
5. 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.

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/0149/S-96, REVISION 8

6. Expiration Date - This certificate expires on January 31, 2013.


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 December 06, 2011 petition by QSA Global, Inc., Burlington, MA, and in consideration of other information on file in this Office.

Certified By:



Jan 27 2012

(DATE)

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Dr. Magdy El-Sibaie
Associate Administrator for Hazardous Materials Safety

Revision 8 - Issued to extend the expiration date for transition to phase out capsule certification.

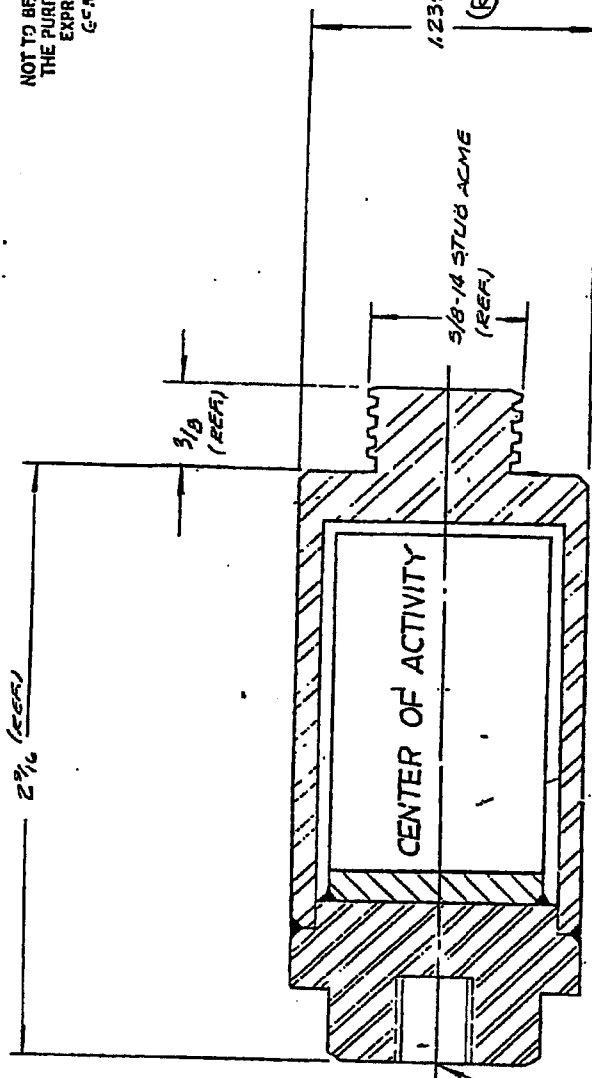
DWG. NO. 003-4706-014 SH, REV.

REVISIONS

REV	DESCRIPTION	DATE	APPROVED
1	ECO 11731	12-3-83	<i>[Signature]</i>

PROPRIETARY & TRADESECRET INFORMATION

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



5/16-18 (REF.)

NOTES:
 △ MATERIAL: VENDOR FURNISHED FROM GULF NUCLEAR INC.

QTY	CODE	PART OR IDENTIFYING NO.	DESCRIPTION	WATERL. SPECIFICATION
			PARTS LIST	
UNLESS OTHERWISE SPECIFIED TOLERANCES ARE IN INCHES FRACTIONS DECIMALS ANGLES				
2-1/4 1/16 0.015 0.005 0.001				
MATERIAL △				
FINISH N/A				
DO NOT SCALE DRAWING				
CONTRACT NO.				
DRAWN <i>[Signature]</i> DATE 7-25-78				
CHECKED JCP DATE 1-1-79				
ISSUED <i>[Signature]</i> DATE 10-11-79				
SOURCE HOLDER ASSY, W/ 20 Ci. AM-241 / BE				
SIZE FSCM NO. B				
DWG. NO. 003-4706-014				
REV. 1				
SCALE 2/1				
SHEET 1/1				



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