



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

**IAEA CERTIFICATE OF COMPETENT AUTHORITY  
SPECIAL FORM RADIOACTIVE MATERIALS  
CERTIFICATE USA/0112/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 Agency<sup>1</sup> and the United States of America<sup>2</sup> for the transport of radioactive material.

1. Source Identification - Schlumberger Model NSR-GB.
2. Source Description - Inert gas seal welded cylindrical double encapsulation made of Type 302 or 304 stainless steel. Approximate external dimensions are 33.2 mm (1.31 in.) in diameter and 35.05 mm (1.38 in.) in length. Construction shall be in accordance with attached Schlumberger Well Surveying Corp. Drawing No. H-222649.
3. Radioactive Contents - Not more than 0.022 TBq (0.6 Ci) of Americium-241 in an oxide form mixed with beryllium powder.
4. Special Condition - This certificate is only valid for Special Form sources manufactured prior to 2004.
5. 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.
6. Expiration Date - This certificate expires on January 31, 2018.

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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/0112/S-96, REVISION 8**


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 January 11, 2013 petition by Schlumberger, Sugar Land, TX, and in consideration of other information on file in this Office.

Certified By:



**Jan 17 2013**

(DATE)

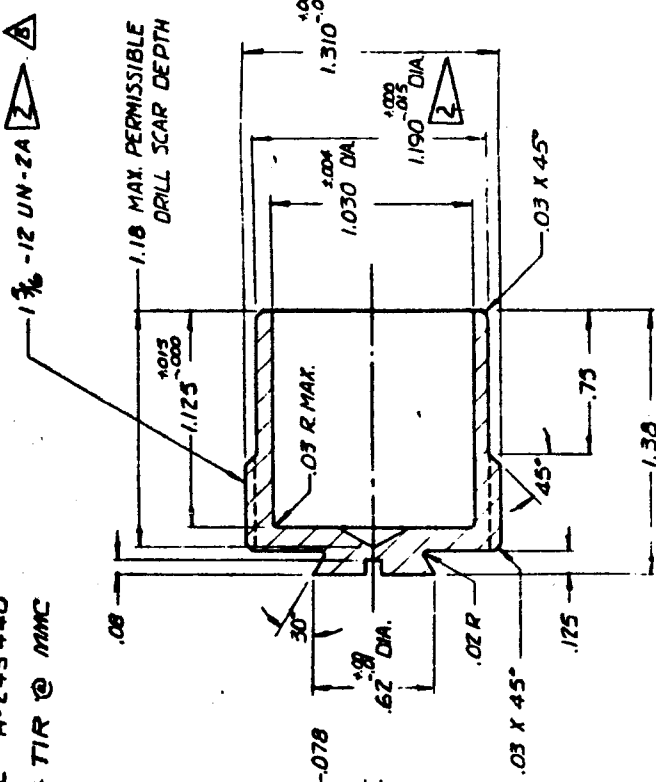
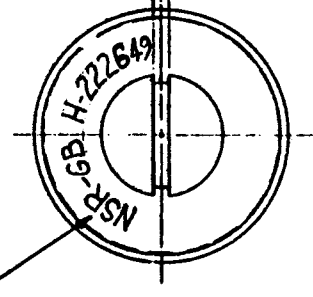
 Dr. Magdy El-Sibaie

Associate Administrator for Hazardous Materials Safety

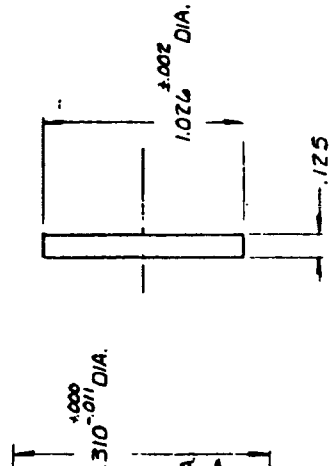
Revision 8 - Issued to extend the expiration date.

NOTE: 1 FOR SHIPMENT OR TRANSPORTING  
USE CARRYING CASE H-245440  
2 CONC WITHIN .004 TIR @ MMC  
3 SEE ENS H-251923.

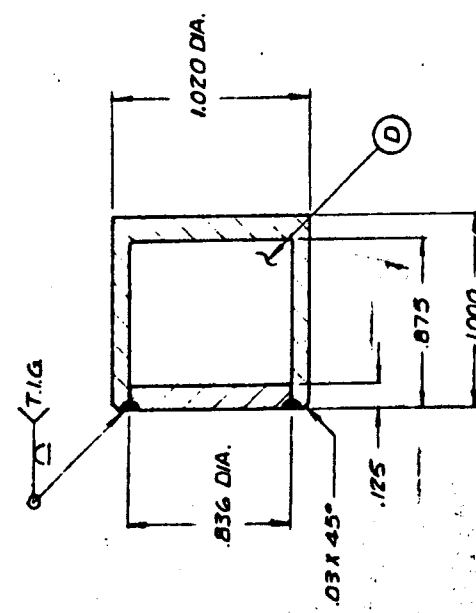
MARK  $\frac{1}{8}$  LETTERS



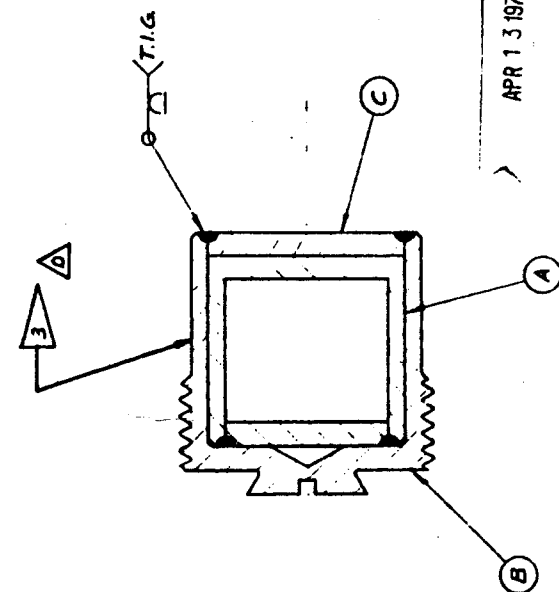
DETAIL B



DETAIL C



DETAIL A



APR 13 1978

CONSTRUCTION, TESTING, & ACCEPTANCE  
PER ENS H-126981.

SET	MATERIAL	QTY	REVISIONS	RMS
A	33T, AISI TYPE 302 OR 304			
B				
C				
D	A-2, B-2 STRENGTH: LOX 10 <sup>6</sup> NEUT./SEC. ± 10% (0.50 CURIE MAX.)			

ENGINEERING APPROVED SUPPLIER  
MONSANTO RESEARCH CO.  
DAYTON, OHIO

NUCLEAR SOURCES &  
SERVICES INC.  
P.O. BOX 14023  
HOUSTON, TX. 77021

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PROJECTS: MSR-GB CNB-A

REVISIONS

TOLERANCES UNLESS OTHERWISE SPECIFIED

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ON ALL MACHINED SURFACES  
UNLESS OTHERWISE SPECIFIED  
OR SHOWN ON DPT  
OR SHALL BE TO  
DO NOT COPY DISPLAY OR USE DRAWING WITHOUT  
AUTHORIZATION - DO NOT SCALE DRAWING

DATA J. Hall APPROVED FOR RELEASE

CAD DES. ENG. PROD. ENG. MOD. ENG.  
H. Hiley J. McCaughy B. B. B. B.

DATE: 8-23-73 DRAWN: Z. J. J.

SCHUMBERGER WELL SURVEYING CORP.  
HOUSTON, TEXAS

NSR-GB  
Am-Be NEUTRON SOURCE

ASSEMBLY DWG. H-222649

10520 OH H-143139  
APR 13 1978



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1200 New Jersey Avenue SE  
Washington, D.C. 20590

**Pipeline and  
Hazardous Materials  
Safety Administration**

**CERTIFICATE NUMBER:** USA/0112/S-96, Revision 8

**ORIGINAL REGISTRANT(S):**

Mr. Timothy McLaughlin  
Radiation Safety Officer  
Schlumberger  
300 Schlumberger Drive  
Sugar Land, 77478  
USA

Thomas Bracke  
RSO  
Schlumberger  
Princeton Technology Center  
20 Wallace Road  
Princeton Junction, NJ 08550