



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

**IAEA CERTIFICATE OF COMPETENT AUTHORITY
SPECIAL FORM RADIOACTIVE MATERIALS
CERTIFICATE USA/0174/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, Inc. Model No. CS-2. All sources authorized by this certificate shall have been manufactured prior to January 11, 1988.
2. Source Description - The source is a heliarc welded double encapsulation of stainless steel with maximum diameter of 8.7 mm (0.344 in.) and a length of 30.6 mm (1.205 in.). The minimum wall thickness of the outer capsule is 0.66 mm (0.026 in.), and that of the inner capsule is 0.76 mm (0.030 in.). The source shall be manufactured in accordance with attached Gulf Nuclear, Inc. Drawing No. A-39-A.
3. Radioactive Contents - Not more than 74 GBq (2.0 Ci) of Cesium-137 in the form of solid microsphere resin pellets.
4. 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.
5. Expiration Date - This certificate expires on February 28, 2022.

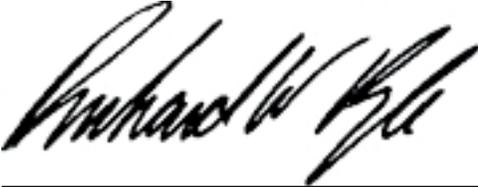
¹ "Regulations for the Safe Transport of Radioactive Material, 1996 Edition (Revised), No. TS-R-1 (ST-1, Revised)," published by the International Atomic Energy Agency (IAEA), Vienna, Austria.

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

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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, 2017 petition by QSA Global, Inc., Burlington, MA, and in consideration of other information on file in this Office.

Certified By:



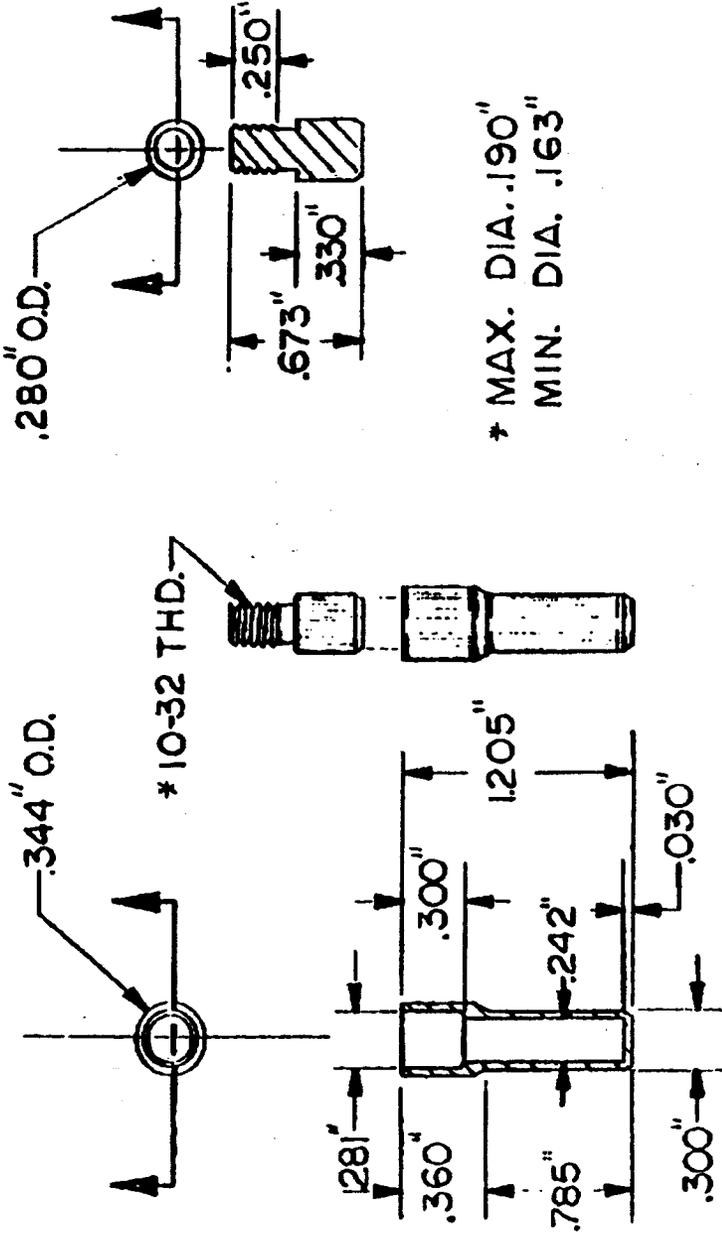
Jan 30 2017

(DATE)

 William Schoonover

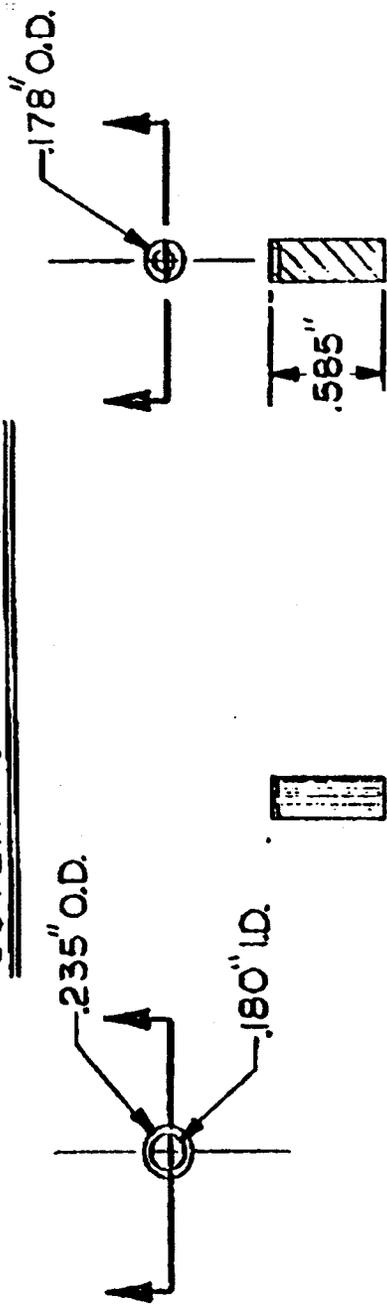
Acting Associate Administrator for Hazardous Materials Safety

Revision 8 - Issued to extend the expiration date.



* MAX. DIA. .190"
MIN. DIA. .163"

OUTER CAPSULE LID



INNER CAPSULE LID

REVISIONS	
NO.	DATE BY
1	
2	
3	
4	
5	

GULF NUCLEAR, INC.

DRESSER ATLAS CS-2 CAPSULE

DRAWN BY MPA SCALE FULL MATERIAL S.S.

CHK'D DATE 9-21-82 DRAWING NO.

FRACED APP'D A-39-A

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