U.S. Department
of Transportation

**Pipeline and
Hazardous Materials
Safety Administration**

East Building, PHH-23
1200 New Jersey Avenue Southeast
Washington, D.C. 20590

IAEA CERTIFICATE OF COMPETENT AUTHORITY
SPECIAL FORM RADIOACTIVE MATERIALS
CERTIFICATE USA/0531/S-96, REVISION 3

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[1] and the United States of America[2] for the transport of radioactive material.

1. Source Identification - ORNL Model DSK 2384.

2. Source Description - Cylindrical double encapsulation constructed of Type 316L stainless steel and inert gas seal welded. Approximate outer dimensions are 12.5 mm (0.49 in.) in diameter and 53 mm (2.1 in.) in length. Construction shall be in accordance with attached Union Carbide Corporation Drawing No. DSK 2384.

3. Radioactive Contents - No more than 4.8 TBq (130 Ci) of Cs-137 in the form of cesium chloride pellets.

4. Quality Assurance - Records of Quality Assurance activities required by Paragraph 310 of the IAEA regulations[1] 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 November 30, 2016.

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[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/0531/S-96, REVISION 3

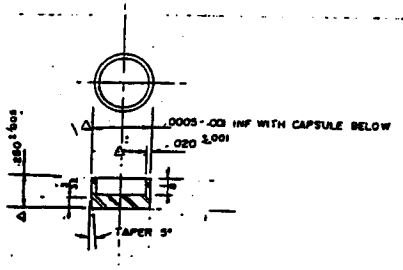
This certificate is issued in accordance with paragraph 804 of the IAEA Regulations and Section 173.476 of Title 49 of the Code of Federal Regulations, in response to the October 25, 2011 petition by J.L. Shepherd, San Fernando, CA, and in consideration of other information on file in this Office.

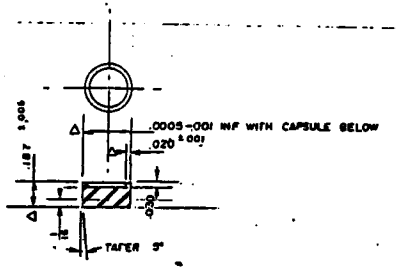
Certified By:

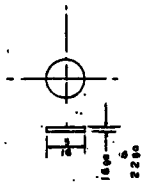
Dr. Magdy El-Sibaie
Associate Administrator for Hazardous Materials Safety

Dec 15 2011
(DATE)

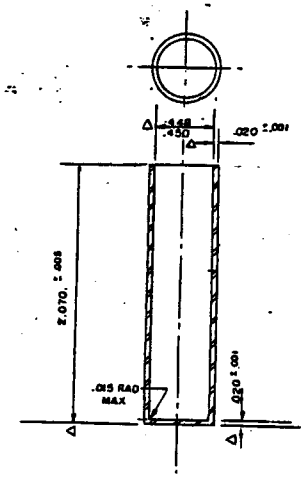
Revision 3 - Issued to extend the expiration date.



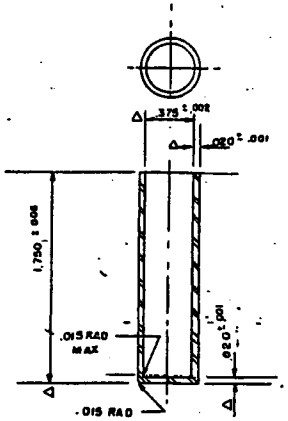




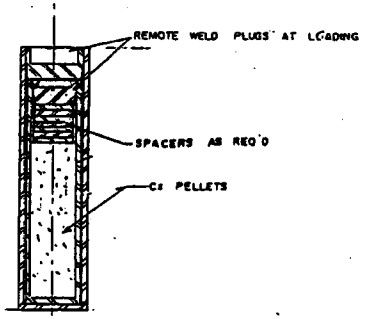
SPACER
SST, 304L
PER ASTM A 240



OUTER CAPSULE & PLUG
316 L SST PER ASTM A-276



INNER CAPSULE & PLUG
316 L SST PER ASTM A-276



ASSEMBLY

THIS DRAWING SUPERSEDES DSK 2350

GE VERIFICATION DOCUMENTS Mechanical & Electrical	
Sub SALA-487 Drawing SF-R-1064	
Recommendation Required	Recommend Not When Required / Form 1
Inspection Test Not On Shop Drawings	Y
Welding Shop Report	Y
Weld Map & Shop Plans	Y
Welds & Shop Travelers	Y
Weld & Grind Shop Drawings	Y
Heat Treat Shop Drawings	Y
Pressure Test Report	Y
Leak Test Report	Y
Cleaning Report	Y
Installation & Ship Plan	Y
Functional Test Report	Y
Dept of Compliance	Y
Deviation Requests	Y
Nonconformance Reports	Y
Operational Report	Y
Sub-Assy	Y
△ TO BE INSPECTED	X

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CERTIFICATE NUMBER: USA/0531/S-96, Revision 3

ORIGINAL REGISTRANT(S):

Ms. Mary Shepherd
Vice President
J.L. Shepherd
1010 Arroyo Ave.
San Fernando, 91340-1822
USA