



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

**IAEA CERTIFICATE OF COMPETENT AUTHORITY
SPECIAL FORM RADIOACTIVE MATERIALS
CERTIFICATE USA/0531/S-96, REVISION 4**

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 - 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 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 August 31, 2021.

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 August 09, 2016 petition by J.L. Shepherd & Associates, San Fernando, CA, and in consideration of other information on file in this Office.

Certified By:



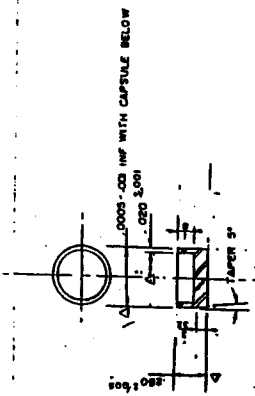
Aug 26 2016

(DATE)

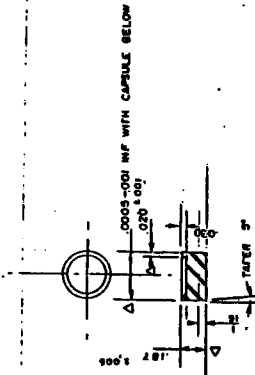
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William Schoonover
Acting Associate Administrator for Hazardous Materials Safety

Revision 4 - Issued to extend the expiration date.

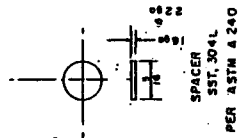
WEST EAST: 1 2 3 4 5 6 7 8



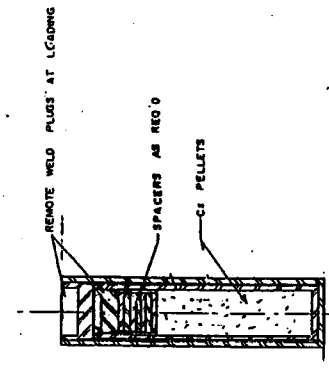
OUTER CAPSULE & PLUG
316 L SST PER ASTM A-276



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



SPACER
SST, 304L
PER ASTM A 240



ASSEMBLY

TMS DRAWING SUPERSEDES DSK 2350

NO.	DATE	BY	CHKD	DESCRIPTION
1	8-13-72	R. J. J. [Signature]		REVISED TO SHOW REMOTE WELD PLUGS AT LOADING
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UNION CARBIDE CORPORATION - NUCLEAR DIVISION
137: Cs SOURCE

SCALE: DOUBLE

D SK 2384

DATE: 8-13-72

NO.	DATE	BY	CHKD	DESCRIPTION
1	8-13-72	R. J. J. [Signature]		REVISED TO SHOW REMOTE WELD PLUGS AT LOADING
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Hazardous Materials
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CERTIFICATE NUMBER: USA/0531/S-96, Revision 4

ORIGINAL REGISTRANT(S):

Ms. Mary Shepherd
Vice President
J.L. Shepherd & Associates
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San Fernando, 91340-1822
USA