



U.S. Department
of Transportation

Pipeline and
Hazardous Materials
Safety Administration

East Building, PHH-23
1200 New Jersey Ave, SE
Washington, D.C. 20590

IAEA CERTIFICATE OF COMPETENT AUTHORITY
SPECIAL FORM RADIOACTIVE MATERIALS

CERTIFICATE USA/0531/S-96, REVISION 5

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. Management System Activities - Records of Management System activities required by Paragraph 306 of the IAEA regulations 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 requirements of Subpart H of 10 CFR 71.
5. Expiration Date - This certificate expires on July 31, 2026. Previous editions which have not reached their expiration date may continue to be used.

¹ "Regulations for the Safe Transport of Radioactive Material, 2012 Edition, No. SSR-6" 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 5

This certificate is issued in accordance with paragraph(s) 804 of the IAEA Regulations and Section 173.476 of Title 49 of the Code of Federal Regulations, in response to the May 26, 2021 petition by J.L. Shepherd & Associates, San Fernando, CA, and in consideration of other information on file in this Office.

Certified By:

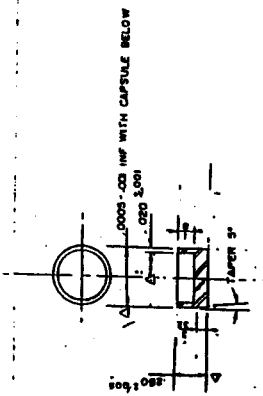


July 02, 2021

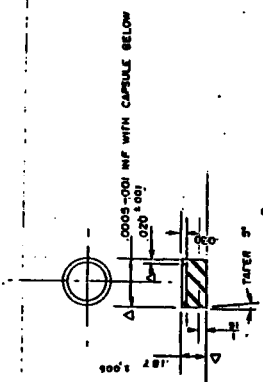
(DATE)

 William Schoonover
Associate Administrator for Hazardous
Materials Safety

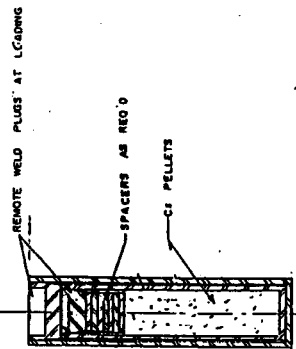
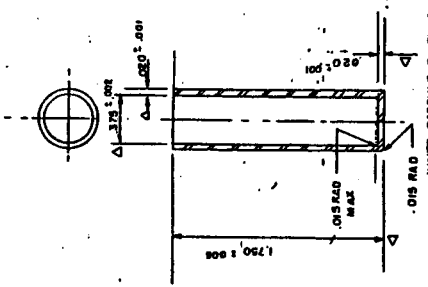
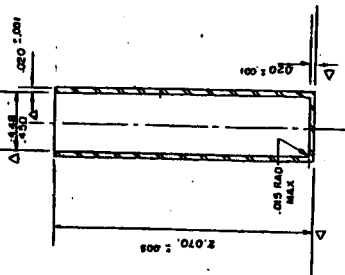
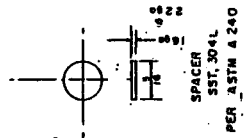
Revision 5 - Issued to extend the expiration date.



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



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



ASSEMBLY

TMS DRAWING SUPERSEDES QSK 2350

DESIGNED BY	DATE
DRAWN BY	DATE
CHECKED BY	DATE
APPROVED BY	DATE
SCALE	1:1
SHEET NO.	1
TOTAL SHEETS	1
PROJECT NO.	8-13-82

UNION CARBIDE CORPORATION - NUCLEAR DIVISION
137 Cs SOURCE

TOLERANCES UNLESS OTHERWISE SPECIFIED		REV	DATE	BY	CHK	APP	DATE	DESCRIPTION
FRACTIONS	± .005	1						
DECIMALS	± .005	2						
ANGLES	± .005	3						
SPACER		4						
ASSEMBLY		5						
Cs PELLETS		6						
INNER CAPSULE & PLUG		7						
OUTER CAPSULE & PLUG		8						

UNION CARBIDE CORPORATION, a subsidiary of Union Carbide International Corporation, is a manufacturer of nuclear fuel elements and components for the nuclear power industry. The company's products are used in a wide variety of nuclear reactors, including pressurized water reactors (PWRs), boiling water reactors (BWRs), and gas-cooled reactors (GCRs). The company's products are also used in space applications, such as radioisotope thermoelectric generators (RTGs) and space nuclear reactors (SNRs).



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ORIGINAL REGISTRANT(S) :

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San Fernando, CA, 91340-1822
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