



U.S. Department
of Transportation

Pipeline and
Hazardous Materials
Safety Administration

IAEA CERTIFICATE OF COMPETENT AUTHORITY
SPECIAL FORM RADIOACTIVE MATERIALS
CERTIFICATE USA/0036/S-96, REVISION 10

East Building, PHH-23
1200 New Jersey Avenue SE
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 - NRD Model A-001.
2. Source Description - This Special Form material is a laminated metallic foil of silver, gold, and americium dioxide, as shown on NRD Inc. Drawing No. 92A071 (attached). The foil may be single or double. The single foil consists of successive layers of plating, gold, Am-241 and gold, gold, silver, and flash plating for identification. In the double foil the flash plating is replaced by gold, Am-241 and gold, gold, and plating. The plating is yellow gold, white gold, or palladium. During transport the material may be in the form of free foils or secured in a variety of holders or mounts.
3. Radioactive Contents - Americium-241 as an oxide with the activity per foil ranging from less than 0.037 MBq (1 uCi) to 2.035 GBq (55 mCi). Activity per unit area does not exceed 0.086 MBq per square millimeter (1500 uCi per square inch).
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 March 31, 2014.

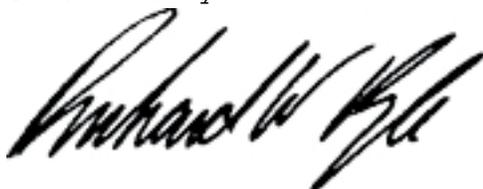
¹ "Regulations for the Safe Transport of Radioactive Material, 1996 Edition (Revised), No. TS-R-1 (ST-1, Revised)," published by the International Atomic Energy Agency(IAEA), Vienna, Austria.

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 March 13, 2009 petition by NRD, Grand Island, NY, and in consideration of other information on file in this Office.

Certified By:



Mar 19 2009

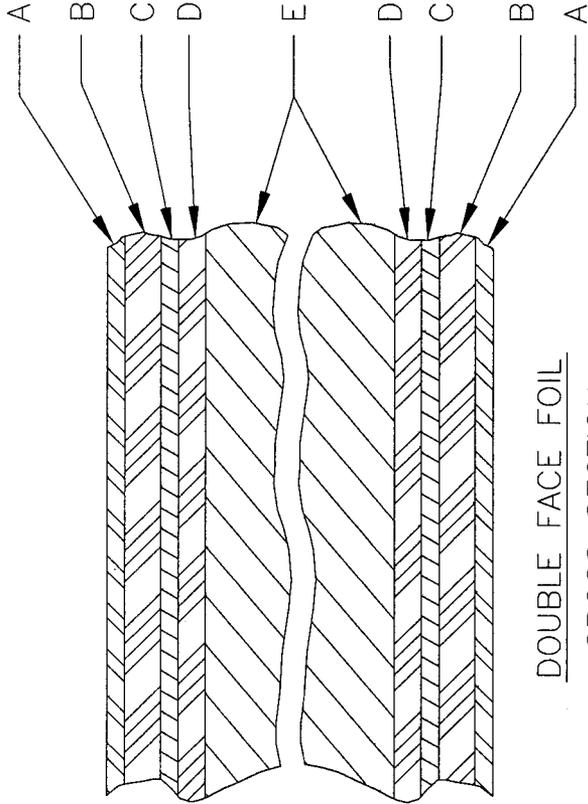
(DATE)

Robert A. Richard

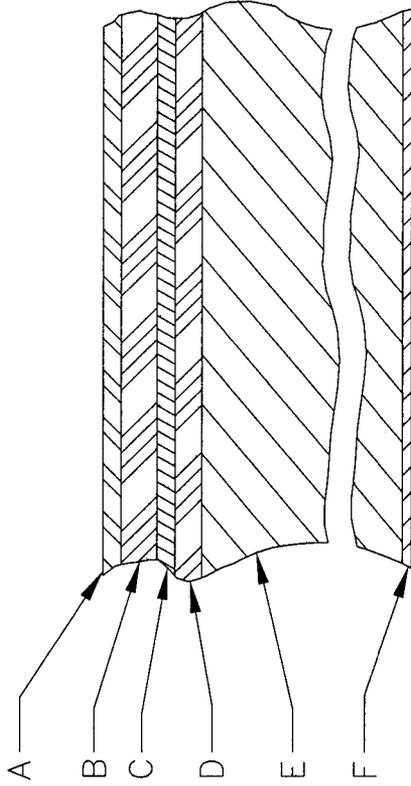
Deputy Associate Administrator for Hazardous Materials Safety

Revision 10 - Issued to extend the expiration date.

REVISIONS			
REV.	DATE	DESCRIPTION	AUTH DR CK



DOUBLE FACE FOIL
CROSS SECTION



SINGLE FACE FOIL
CROSS SECTION

NOTES:

- * PLATING CAN BE YELLOW GOLD, WHITE GOLD, OR PALLADIUM.
- ACTIVITY RANGE:
 - FROM LESS THAN 1 MICROCURIE UP TO 55 MILLICURIES PER FOIL.
 - NOT TO EXCEED 2.33 MICROCURIES PER SQUARE MILLIMETER. (OR 1500 MICRO-CURIES PER SQUARE INCH)
- DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED.

- * PLATING 0.00002
- GOLD 0.00004
- AMERICIUM 241 & GOLD 0.00002
- GOLD 0.00003
- SILVER 0.004 TO 0.009
- FLASH PLATING FOR IDENTIFICATION

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON: 2 PL DECIMALS ± 3 PL DECIMALS ± ANGLES ± FRACTIONS ±	SIGNATURES	DATE
	DRAWN C. DUNN CHECKED APPROVED APPROVED	10JUL92
THIRD ANGLE PROJECTION		
DO NOT SCALE PRINT		
<p>NRD INC. A SUBSIDIARY OF MARK IV INDUSTRIES, INC. 2937 ALT BOULEVARD GRAND ISLAND, NEW YORK 14072</p>		
<p>MATERIAL & FINISH SEE NOTES A-001 FOIL GENERAL COMPOSITION</p>		
A	DATE 10JUL92	DWG NO 92A071
SCALE NONE		REVISION



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1200 New Jersey Avenue SE
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CERTIFICATE NUMBER: USA/0036/S-96, Revision 10

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